# BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF SOUTH DAKOTA

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SOUTH DAKOTA PUBLIC UTILITIES COMMISSION

| IN THE MATTER OF DETERMINING PRICES | ) | DOCKET NO. TC01-098 |
|-------------------------------------|---|---------------------|
| FOR UNBUNDLED NETWORK ELEMENTS      | ) |                     |
| (UNEs) IN QWEST CORPORATION'S       | ) |                     |
| STATEMENT OF GENERALLY AVAILABLE    | ) |                     |
| TERMS (SGAT)                        | ) |                     |

#### DIRECT TESTIMONY OF

MARK L. STACY

On behalf of

THE STAFF OF THE PUBLIC UTILITIES COMMISSION OF SOUTH DAKOTA

June 16, 2003



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| 1 <u>INTRODUCTION</u> |    | RODUCTION  |
|-----------------------|----|--|
| 2                     | Q. | PLEASE, STATE YOUR NAME AND BUSINESS ADDRESS FOR THE                                     |
| 4                     |    | RECORD.  |
| 5                     | A. | My name is Mark L. Stacy. My business address is 229 Stetson Dr., Cheyenne,              |
| 6                     |    | Wyoming 82009.   |
| 7                     |    |  |
| 8                     | Q. | BY WHOM ARE YOU EMPLOYED?  |
| 9                     | A. | I am employed by QSI Consulting, Inc. ("QSI").   |
| 10                    |    |  |
| 11                    | Q. | PLEASE DESCRIBE QSI AND YOUR POSITION WITH THE FIRM.                                     |
| 12                    | A. | QSI is a consulting firm specializing in the areas of telecommunications policy,         |
| 13                    |    | econometric analysis and computer aided modeling. I am a Senior Consultant with QSI.     |
| 14                    |    |  |
| 15                    | Q. | PLEASE DESCRIBE YOUR EXPERIENCE WITH TELECOMMUNICATIONS                                  |
| 16                    |    | POLICY ISSUES AND YOUR RELEVANT WORK HISTORY.  |
| 17                    | A. | Before joining QSI, I was President of Stacy & Stacy Consulting, LLC. Like QSI, Stacy    |
| 18                    |    | & Stacy is a consulting firm providing consulting services to domestic and international |
| 19                    |    | telecommunications carriers. During my tenure at Stacy & Stacy, I testified on behalf of |
| 20                    |    | a number of clients in regulatory proceedings in the western United States on a wide     |
| 21                    |    | range of subjects.   |
| 22                    |    | Before joining Stacy & Stacy, I was employed by Kenetech Windpower, Inc., where I        |
| 23                    |    | was the regional manager of business and project development for the Rocky Mountain      |
|                       |    |  |



Region. Before my tenure at Kenetech, I was the Chief Economist for the Wyoming 24 Public Service Commission. While at the Wyoming PSC, I was responsible for 25 26 providing the Commission with a wide range of policy, economic, and technical expertise regarding telecommunications and other public utility issues. 27 In addition to my occupational experience, I hold a Bachelor of Science degree in 28 Geology and a Master of Science degree in Public Utility and Regulatory Economics 29 30 from the University of Wyoming. 31 HAVE YOU PROVIDED TESTIMONY AND ADVOCACY BEFORE STATE 32 Q. UTILITY COMMISSIONS IN THE PAST? 33 34 Yes. Over the past 11 years, I have provided testimony and advocacy before state utility A. 35 commissions in the following states: Arizona, Colorado, Connecticut, Florida, Idaho, Indiana, Montana, Nebraska, New Mexico, New Jersey, New York, North Carolina, 36 North Dakota, Oklahoma, Oregon, South Dakota, Utah, Washington, Wisconsin and 37 38 Wyoming. 39 PURPOSE AND SUMMARY 40 41 WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING? 42 Q. The Staff of the Public Utilities Commission of South Dakota has asked me to evaluate 43 A. Owest's testimony and cost studies for Unbundled Network Elements (UNEs), which 44 have been submitted to the South Dakota Public Utilities Commission (Commission) in 45 46 DOCKET NO. TC01-098.



|    | I have reviewed and considered all relevant testimony and documentation that Qwest        |
|----|---|
|    | provided in support of its South Dakota non-recurring charges (NRCs). I have made         |
|    | recommendations for changes to Qwest NRCs in the text of this testimony.                  |
|    |   |
| Q. | WHICH NONRECURRING COST STUDIES DID YOU REVIEW?   |
| A. | I reviewed all of the cost studies filed by Qwest that deal with nonrecurring costs in my |
|    | review of Qwest's filing. I have focused my attention on the October 29, 2002 SD NRC      |
|    | STUDY 6454 (NRC STUDY), and the following discussion and criticism is directed at         |
|    | that study.   |
|    |   |
| Q. | PLEASE, SUMMARIZE THE FINDINGS THAT YOU PRESENT IN YOUR                                   |
|    | TESTIMONY.  |
| A. | Based on a review of the testimony filed by Qwest in this case, and Qwest's NRC           |
|    | STUDY, I have concluded that the study is deficient in the following areas:               |
|    | 1. There are flaws in the cost study methodology as it relates to the validity of the     |
|    | data relied upon by Qwest to generate NRCs. Because the data relied upon by               |
|    | Qwest is questionable, the results of the NRC studies are not reliable.                   |
|    | 2. Qwest's NRC studies and calculations are not forward-looking and are                   |
|    | inconsistent with the Total Element Long Run Incremental Cost (TELRIC) cost               |
|    | methodology, which requires that costs be measured based on the most efficient            |
|    | telecommunications technology currently available.  |
|    | A.<br>Q.  |



- Qwest has not assumed the utilization of forward-looking currently available operational support systems in calculating nonrecurring charges in its NRC STUDY. The failure to account for such systems overstates NRCs.
- Qwest has not demonstrated that it utilizes an efficient process in provisioning nonrecurring elements. Failure to incorporate such an assumption will result in the overstatement of NRCs.

The Qwest NRC STUDY is flawed and the Commission can not rely upon it to produce nonrecurring rates that are compliant with FCC pricing rules, or TELRIC principles.

Because the NRC STUDY as presented by Qwest in this proceeding is fatally flawed, I recommend that the Commission reject the Qwest-proposed nonrecurring rates, instead adopt the results of the NRC STUDY incorporating the changes and adjustments to the study supported by me and my colleague, Mr. Sid Morrison. The rates generated after incorporating these changes and adjustments would be more in line with existing pricing standards and TELRIC principles. These rates should be in effect on an interim basis, until such time as Qwest performs and provides the results of a properly conducted time and motion study that would validate the critical task time inputs on which the study depends and the South Dakota Commission has had an opportunity to conduct a hearing on the appropriateness of the results of Owest's time and motion study.



| 89         | Q.  | DURING THE PROCESS OF REVIEWING AND EVALUATING QWEST'S                                   |
|------------|-----|--|
| 90         |     | SOUTH DAKOTA NRC STUDY DOCUMENTATION AND TESTIMONY, CAN                                  |
| 91         |     | YOU EXPLAIN THE FRAMEWORK YOU UTILIZED?  |
| 92         | A.  | I evaluated Qwest's testimony and cost studies with the understanding that the cost      |
| 93         |     | studies must be based on the utilization of the most efficient technology available, and |
| 94         |     | that the nonrecurring costs generated by Qwest's model should be forward-looking in      |
| 95         |     | nature.  |
| 96         |     |  |
| 97         | Q.  | HOW IS YOUR TESTIMONY ORGANIZED?   |
| 98         | A.  | In the following section of my testimony, I provide the Commission with general          |
| 99         |     | criticisms of the Qwest NRC STUDY relating to methodological issues. In the              |
| 100        |     | subsequent section of my testimony, I address other deficiencies of Qwest's NRC          |
| 101        |     | STUDY relating to the assumed use of currently available OSS technologies, and the       |
| 102        |     | failure of Qwest to incorporate assumptions that Qwest operates efficiently in the       |
| 103        |     | provisioning of nonrecurring elements. I conclude my testimony by discussing the anti-   |
| 104        |     | competitive ramifications of the Qwest-proposed nonrecurring rates in South Dakota.      |
| 105        |     |  |
| 106<br>107 | MET | THODOLOGICAL PROBLEMS WITH QWEST'S NRC STUDY   |
| 108        | Q.  | CAN YOU DESCRIBE WHAT INFORMATION IS NECESSARY FOR THE                                   |
| 109        |     | COMMISSION TO MAKE AN INFORMED DECISION IN THIS CASE                                     |
| 110        |     | REGARDING NRCS?  |
|            |     |  |



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111 A. Yes. In order for the Commission to accept the nonrecurring rates generated by the Owest NRC STUDY, the methodology used in generating the rates must be valid. This 112 section of my testimony focuses on the methodological issues and addresses the general 113 deficiencies and unreliability of the inputs to the NRC STUDY. Because the study's 114 results are directly related to estimates obtained from Qwest subject matter experts 115 116 (SMEs), it is critical that these data inputs can be relied upon to produce costs that are 117 representative of forward-looking nonrecurring costs in South Dakota. 118 119 HAS OWEST ESTIMATED NRCS IN THIS PROCEEDING IN SUCH A WAY O. THAT THE COMMISSION CAN HAVE CONFIDENCE IN WHAT QWEST HAS 120 PRESENTED, AND THAT THE RESULTING RATES ARE IN COMPLIANCE 121 122 WITH EXISTING PRICING STANDARDS? 123 A.

No, Qwest has estimated the work times and probability of occurrence factors associated with the tasks included in its NRC STUDY relying entirely on information gathered from SMEs who are Qwest employees. I have several concerns regarding the methodology Qwest used for developing task completion durations and the probability of occurrence of those tasks, and consequently, the validity of the NRC STUDY results since it is completely reliant upon such inputs. Qwest has failed to provide the Commission with any validation whatsoever with respect to these critical inputs, and therefore, Qwest's NRC STUDY must be considered to be deficient. Based upon these deficiencies, there is not sufficient reason for the Commission to have confidence in the nonrecurring rates



| 132 |    | produced by the model, and there are sufficient grounds for the Commission to reject      |
|-----|----|---|
| 133 |    | Qwest's proposed NRCs.  |
| 134 |    |   |
| 135 | Q. | PLEASE PROVIDE THE COMMISSION WITH SPECIFIC CONCERNS THAT                                 |
| 136 |    | YOU HAVE WITH RESPECT TO THE METHODOLOGY USED BY QWEST IN                                 |
| 137 |    | THIS PROCEEDING.  |
| 138 | A. | As noted, Qwest has relied entirely upon information provided by Qwest subject matter     |
| 139 |    | experts for the critical task time and occurrence probability inputs to the NRC STUDY.    |
| 140 |    | The reliance on SMEs to estimate activity times and probability of occurrence presents a  |
| 141 |    | problem in that it is difficult to quantify the subjective nature of the SMEs' opinions.  |
| 142 |    | Because the NRC STUDY results are so closely tied to these SME opinions, the costs        |
| 143 |    | generated by the model are not reliable unless the information has been validated.        |
| 144 |    |   |
| 145 | Q. | WHAT COULD QWEST DO TO PROVIDE THE COMMISSION WITH SOME                                   |
| 146 |    | ASSURANCE THAT THE ESTIMATES OF QWEST SMES ARE VALID?                                     |
| 147 | A. | There are a number of things that Qwest could have done to support the work time and      |
| 148 |    | probability inputs which are critical to the development of NRC rates. First, Qwest could |
| 149 |    | have required the individuals who provided the inputs to the NRC STUDY to participate     |
| 150 |    | in this case. The SMEs who were responsible for estimating these critical inputs into the |
| 151 |    | NRC STUDY have not filed testimony in this proceeding. Therefore, these individuals       |
| 152 |    | do not have to swear to the correctness or truthfulness of those estimates or to face     |
| 153 |    | questioning from the parties to this case or the Commission. Alternatively, Qwest could   |
|     |    |   |



Q.

A.

have engaged an independent third party to audit and verify the results obtained from its models and provided the results of such an audit as evidence that task time durations and occurrence probabilities are valid. Qwest did not do this either. Finally, Qwest could have provided validation for their estimates by performing time and motion studies for the tasks at issue as Qwest was ordered to do by the Washington Utilities and Transportation Commission. Any one of these options may have given the Commission comfort that the time estimates were not overstated or biased however, Qwest chose not to provide the Commission with these assurances. In fact, Qwest does not provide any support whatsoever to establish that its survey results are at all reliable or unbiased.

IN ADDITION TO NOT PROVIDING SUPPORT FOR THE ESTIMATED

TIMES AND OCCURRENCE PROBABILITY FACTORS, ARE THERE OTHER ISSUES WITH RESPECT TO THE PROCESS USED BY QWEST TO GATHER SUCH DATA THAT THE COMMISSION SHOULD BE AWARE OF?

Yes. It is my opinion that the process used by Qwest to gather this critical data that is

Yes. It is my opinion that the process used by Qwest to gather this critical data that is used to generate NRC rates is flawed. This is due to the fact that there is no "paper trail" that can be followed to determine whether or not the estimates provided by Qwest's SMEs were provided using assumptions consistent with TELRIC pricing principles. In the absence of such data, it is impossible to know whether SME's estimated times and probabilities represent forward-looking operations, today's operations, or the operations from 20 years ago.

<sup>&</sup>lt;sup>1</sup> Docket UT-003013



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Q.

|    | TO WHAT THEY ARE SUPPOSED TO BE ACCOMPLISHING WHEN  |
|----|---|
|    | ESTIMATING TIME AND PROBABILITIES FOR THE NRC TASKS?                                      |
| A. | No. Although Qwest purports to provide SMEs with instructions regarding how to go         |
|    | about determining time estimates and probability of occurrence to ensure that the         |
|    | estimations reflect a forward-looking network and are consistent with TELRIC              |
|    | principles, there is a lack of documentation regarding any instructions given to SMEs. In |
|    | fact, QSI has learned from Qwest personnel that Qwest provides no written instructions    |
|    | to the SMEs to ensure that these principles are considered when determining these model   |
|    | inputs. This is clearly inconsistent with the process other ILECs have in place with      |
|    | respect to accomplishing the same task, as other ILECs do provide detailed written        |
|    | instructions to be followed by SMEs in developing these estimates. Absent this            |
|    | documentation, it is unclear as to whether Qwest's SMEs have made estimates assuming      |
|    | a forward-looking network, anticipating process efficiencies and/or mechanization, that   |
|    | the estimates do not include supplements to the initial order, include maintenance or     |
|    | repair time, or that downtime (such as breaks etc.) are not to be included in the         |
|    | estimation. Absent such written documentation, it is not even possible to verify that     |
|    | Qwest's SMEs had a clear understanding of what they were to do, how they were to do it,   |
|    | or even the purpose of the estimates.   |

DOES QWEST HAVE A CLEAR PROCESS FOR INSTRUCTING THE SMES AS



| 196   | Q. | PLEASE DESCRIBE IN MORE DETAIL WHAT YOU HAVE LEARNED   |
|---|----|--|
| 197   |    | ABOUT THE PROCESS QWEST RELIES UPON TO GATHER THIS CRITICAL  |
| 198   |    | DATA.  |
| 199   | A. | QSI was retained to perform consulting services on behalf of the New Mexico Public   |
| 200   |    | Regulation Commission Staff in the recent TELRIC UNE proceeding in New Mexico  |
| 201   |    | that is analogous to this proceeding in South Dakota (New Mexico Public Regulation   |
| 202   |    | Commission Case No 3495 - Phase B). As was the case in South Dakota, QSI's   |
| 203   |    | involvement in the UNE proceeding included the attendance of a technical conference  |
| 204   |    | held at Qwest headquarters in Denver, Colorado on February 7 and 8, 2002. At the New   |
| 205   |    | Mexico technical conference, QSI was provided with a document entitled   |
| 206   |    | "NONRECURRING ELEMENTS - NEW MEXICO", the stated purpose of which is to  |
| 207   |    | support the nonrecurring cost studies for unbundled network elements. Qwest filed a  |
| 208   |    | similar document in North Dakota (Case No. PU-2342-01-296) entitled "SUPPORTING  |
| 209   |    | DOCUMENTATION FOR QWEST'S NONRECURRING COST STUDY". These  |
| 210   |    | documents will be referred to henceforth in my testimony and the testimony of Mr. Sid  |
| 211   |    | Morrison as "Qwest's NRC Support Documents" (See attachment MLS_1). In each of   |
| 212   |    | these documents, it is stated that:  |
| 213<br>214<br>215<br>216<br>217<br>218<br>219 |    | Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied. |
| 220   |    | Unfortunately, the SME's who are responsible for providing these critical inputs do not  |
| 221   |    | appear before the Commission in this case, and, as I will explain below, the process used  |
|   |    |  |



in gathering and estimating these inputs is haphazard, fraught with potential problems, and extremely unlikely to result in inputs that are consistent with forward-looking, TELRIC pricing principles.

A.

# Q. PLEASE EXPLAIN IN FURTHER DETAIL THE PROBLEMS YOU HAVE DISCOVERED WITH RESPECT TO QWEST'S NONRECURRING COST STUDY INPUTS

Through the discovery process in the New Mexico Docket QSI has learned that the process relied upon by Qwest to gather NRC supporting data is fraught with opportunities for inaccuracy and even abuse. Qwest admits in response to Staff Request No. 03-001 in the New Mexico Docket that "There were no formal written instructions provided to the subject matter experts (SMEs) that provide the time estimates and probabilities for the nonrecurring studies". Rather than relying on a more formal (and directly observable) set of written instructions to the SMEs, Qwest instead disseminates this information (on which the results of its NRC models are dependent) through the haphazard (and unauditable) method of conversations on conference calls, team meetings, and e-mails. In other words, instructions to SMEs are not documented. Without such documentation, the Commission has no way of knowing what instructions were given to the SMEs, no way of knowing if the SME made estimates based on forward-looking assumptions no way of knowing if the SMEs knew that the estimates would be used to develop CLEC costs, and, really, no way of knowing if the SME (or



any of the SMEs that were consulted) was told to overstate the times and probabilities in 243 244 order to increase costs to Owest's competitors. 245 246 WHAT IS THE RESULT OF THIS METHODOLOGICAL DEFICIENCY? Q. 247 This slipshod approach to gathering this important data represents a fatal flaw in Qwest's Α. 248 NRC model. Since the results of the model are tied directly to these estimates, and this 249 uncertainty exists, the Commission should not view Qwest's proposed NRCs as being consistent with TELRIC principles. In fact, as I will discuss below, given the incentives 250 251 of the SMEs, the Commission should anticipate that SMEs' estimations would be 252 overstated, and that the resulting NRCs would be inflated. 253 254 ARE THERE OTHER CONCERNS WITH THE METHODOLOGY USED IN Q. 255 THE NRC STUDY AS IT RELATES TO HOW INFORMATION WAS 256 GATHERED AND RECORDED? 257 Yes. Yet another concern in this area relates to the information provided by Qwest with Α. 258 respect to the manner in which work time estimates were obtained. According to 259 Owest's NRC Support Documents, the work times estimated by the SMEs charged with that task are average work times. In developing these average times, presumably, there 260 were some number of estimates given by various SMEs, and those estimates were totaled 261 and then divided by the number of estimations to produce the "average" estimated time, 262 263 and presumably, these results ranged from lower times to higher times. Owest, in 264 response to New Mexico Staff Request 03-017 described the process of developing thse



average work time estimates as "often a collaborative process wherein a group of experts and technicians meet to discuss the tasks and work activities performed. During that collaborative process each participant provides input, the estimates are determined and the data resulting from the group's consensus is provided to the cost analyst. No other data from the SMEs is provided to the cost analyst."

A.

#### Q. IS THERE A PROBLEM WITH RELYING ON AVERAGE WORK TIMES?

Yes. As noted previously, this "collaboration" which relies on the input of multiple "experts" is entirely undocumented, and therefore, the average times relied upon by Qwest for the development of nonrecurring rates are not supported. Additionally, Qwest is not specific regarding these times within the NRC STUDY; for instance, there is no discussion of the highest, lowest, average, and median times associated with each of the work activities analyzed and averaged, nor are there calculations for such times within the NRC model. Such information is valuable to the Commission and other parties for at least two reasons. First, the ability of the parties to evaluate the data using this more complete set of information would provide a better opportunity to identify statistical outliers, which the analysis should address. For example, task time inputs currently used in the NRC STUDY that are based on performance of certain tasks which occurred under abnormal conditions which may involve longer than usual completion times would inappropriately skew the average task times utilized within the study, resulting in overstated times, and inflated nonrecurring rates. Second, since rates generated by the NRC STUDY should be based on forward-looking, least-cost principles and since lower



times may reflect more efficient operations, time estimates that are lower than the average are likely the best times to be used as inputs into the model. Running the model using these more efficient times would obviously produce lower nonrecurring costs than those produced using average costs and mitigate the extent to which the model's results contain inherent bias.

A.

#### Q. WHY WOULD THE MODEL BE BIASED?

Any time an ILEC relies entirely on its own employees to provide estimates that will have a direct impact on the ability of its competitors to compete there should be a concern that the estimates will contain bias. Relying on the lowest work times would mitigate the inherent bias the estimators (who are all Qwest employees) may have in participating in the development of prices for Qwest's competitors. Importantly, because the estimates given by these Qwest employees are directly related to the NRCs generated by the model, even the most explicit instructions on how to estimate work times could not totally eliminate inherent bias against CLECs. This is because CLEC success is directly related to resulting rates, and the success of those competing CLECs may impact the financial health and competitive standing of Qwest and therefore the job security of the SMEs providing the estimates. Therefore, Qwest employees likely have some incentive to overstate task times and probability factors, resulting in excessive NRC rates for CLECs. This is of particular concern given the fact that there is no documentation of how SMEs were instructed before providing these estimates, those SMEs do not swear to their estimates, and the parties do not have the opportunity to cross examine these SMEs.



Consequently, the Commission cannot be certain that Qwest's task times are reliable or representative of an efficient carrier. In fact, based on the lack of support provided by Qwest with respect to the methodologies used in gathering this critical data, along with the fact that this data is likely skewed, the Commission should view the Qwest task times with a high degree of skepticism, and those times should be rejected.

A.

Q. HAVE OTHER JURISDICTIONS RECOGNIZED THIS POTENTIAL FOR BIAS

AND THE FLAW OF RELYING ON AVERAGE RATHER THAN MINIMUM

WORK TIMES IN THE CALCULATION OF NONRECURRING COSTS?

Yes. The Massachusetts Department of Energy and Telecommunications has recognized in D.P.U./D.T.E. 96-73/74, 96-75, 96-80/81, 96-83, 96-94-Phase 4-L, that there were serious flaws in the methodology used by Verizon, which, like Qwest, used average times as opposed to minimum times. In that proceeding, the Massachusetts Department determined that in order to reduce the strong likelihood of bias when, among other things, employees are instructed to provide estimates that will be used to derive charges for competitors, the Department ordered Verizon to rely on minimum rather than average work time estimates in deriving its NRCs. In the absence of verifiable time and motion studies, this Commission should, as a short term solution find as the Department has found in Massachusetts to eliminate the bias from the Qwest study and the nonrecurring rates it generates by adopting the adjustments to the NRC STUDY advocated by Mr. Morrison. This Commission should, as a long term solution, require Qwest to conduct time and motion studies (with the other parties to this case participating) which may



331 provide valid inputs to the NRC STUDY, and rates that are consistent with TELRIC 332 standards. 333 334 Q. HAVE OTHER COMMISSIONS IN THE QWEST REGION COME TO THE 335 SAME CONCLUSION AS YOU WITH RESPECT TO QWEST'S LACK OF 336 DOCUMENTATION REGARDING SME TASK TIME ESTIMATES? 337 Yes, the Washington Utilities and Transportation Commission, In the Matter of the A. 338 Continued Costing and pricing of Unbundled Network Elements, Transport, Termination and Resale, Brief of Commission Staff, Docket No. UT-0030013, Part B, May 29, 2001 339 340 made the following observation concerning just this issue 341 342 The cost studies that Owest filed in this case are based on Owest's actual 343 experience or company practice (TR 1821; Ex. T-1001, page 5; See also Ex. 101, pages 7-8), although they purport to yield forward-looking replacement costs. 344 The time estimates for various activities are based on the estimates of subject-345 346 matter experts (SMEs). However, as brought out in the cross-examination of Ms. 347 Million by Ms. Steele (See TR 1834-1836), the information provided to the SME's to produce those estimates, and the detail of the activities performed, are 348 not in the record. The Commission requested that, in briefs, the parties address 349 350 the issue of how it can validate the reasonableness of the opinions of the SMEs (Commission Issue No. 1). It is Staff's view that, without time and motion 351 352 studies or the opportunity to observe the activities that are performed, it is difficult, if not impossible, to obtain such validation. 353 354 355 Clearly, the WUTC addressed the same issues in that proceeding which I am bringing to the Commission's attention here. 356 357 HOW DID THE WASHINGTON COMMISSION RESOLVE THE ISSUE? 358 Q.



359 In order to address the issue that Qwest presented an NRC cost study that was completely A. unsupported, the Washington Commission went on to order in Docket No. UT-0030013, 360 361 in the Forty-First Supplemental Order, Part D, October 11, 2002, at paragraph 66, that 362 "the submission of nonrecurring cost studies without supporting time and motion data in 363 the future will be rejected absent extraordinary circumstances." (emphasis added). 364 Staff would argue that in the absence of properly conducted time and motion studies 365 which provide support for the critical task time inputs to Qwest's NRC STUDY, the 366 South Dakota Commission can not conclude that the resulting nonrecurring rates 367 generated by that study are in compliance with TELRIC principles or FCC pricing rules. 368 369 IS IT YOUR TESTIMONY THAT IN THE ABSENCE OF PROPERLY 0. 370 CONDUCTED TIME AND MOTION STUDIES THE USE OF SUBJECT 371 MATTER EXPERTS FOR PURPOSES OF OBTAINING TASK TIME AND 372 PROBABILITY OF OCCURRENCE ESTIMATES IS INHERENTLY 373 **INAPPROPRIATE?** No. In fact, my colleague Mr. Morrison (who is an experienced subject matter expert in 374 Α. 375 this area) makes adjustments to the Qwest NRC STUDY by advocating alternative task 376 times to be used as inputs. However, in stark contrast to the Qwest SMEs who are 377 responsible for providing the Owest-sponsored task time inputs, Mr. Morrison will take 378 the stand in this proceeding and will be available for cross-examination by the parties and 379 the Commission. The collaborative process utilized by Owest does not allow the parties 380 or the Commission to cross-examine the individuals responsible for providing the critical



inputs. The fact that these critical times are provided by faceless Qwest employees who are not required to swear to the accuracy of their estimates further frustrates the parties' and Commission's attempt to determine whether those estimates are in fact compliant with TELRIC pricing principles. Mr. Morrison has either performed or directly supervised technicians who perform the tasks at issue in this case, and he will appear on the witness stand to fully support any adjustments he has made to the NRC STUDY.

Α.

## Q. IS THE FACT THAT MR. MORRISON IS FILING TESTIMONY IN THIS CASE AND WILL APPEAR BEFORE THE COMMISSION THE ONLY DIFFERENCE?

No. As I understand it, Qwest relies on multiple levels of review in order to obtain its estimates, with each level of review having the opportunity and responsibility of "tweaking" the original estimated values. While I am not specifically criticizing any of the levels of review, I do think that after so many iterations, the potential exists for a number to be produced that has very little basis in reality. As noted previously in my testimony, there is no documentation regarding the instructions given to the Qwest SMEs which could lend support to Qwest's claim that those estimates are consistent with established pricing rules.

Additionally, when multiple levels of review are relied upon, validation of the result

Additionally, when multiple levels of review are relied upon, validation of the result becomes even more important. Averaging and re-averaging a set of numbers over and over again creates the potential that the original objective becomes lost -- that being, to generate task times to be used in the calculation of forward-looking costs (especially in light of a potential anti-CLEC bias at each level of review). Without knowing



403 information such as the identity of the SMEs who are responsible for estimating work 404 times, the qualifications of the SMEs who are responsible for estimating the work times 405 and so on, it is difficult for the Commission to take the estimates seriously. 406 Given these facts, Qwest's proposed nonrecurring rates must be rejected by this 407 Commission. 408 409 HAVE YOU OBSERVED SIMILAR DEFICIENCIES WITH RESPECT TO Q. 410 **OWEST'S PROBABILITY OF OCCURRENCE ESTIMATES?** 411 Yes. The probability of occurrence factors relied upon by Owest in its NRC STUDY are A. 412 faulty in the same manner as the task time estimates with respect to the methodological 413 flaws I have discussed above. Since these probability factors reflect the extent to which 414 the tasks even need to be performed (and the extent to which Qwest needs to recover 415 those costs), questions regarding the validity of those factors have a significant impact on 416 the resulting NRCs. These factors, along with the task times used by Owest in its NRC 417 STUDY have resulted in NRCs that are significantly overstated. 418 419 Q. BASED ON YOUR EDUCATION AND EXPERIENCE, WHAT IS YOUR 420 CONCLUSION WITH RESPECT TO THE METHODOLOGICAL APPROACH 421 TAKEN BY QWEST IN DEVELOPING ITS NONRECURRING COSTS IN THIS PROCEEDING. 422 423 Based on my review, I have determined that the methodologies relied upon by Qwest Α. 424 introduce flaws into the NRC STUDY. The resulting NRC rates are therefore



425 unsubstantiated and not based on FCC-required TELRIC principles. In the long run, this 426 Commission can only be assured of the validity of the critical task time inputs (and the 427 corresponding validity of nonrecurring rates) by requiring Owest to utilize the results of 428 properly conducted time and motion studies. The Commission should adopt the 429 nonrecurring rates proposed by Mr. Morrison in this proceeding on an interim basis until 430 such time as Owest can provide such supporting evidence. 431 432 DO YOU RECOMMEND THAT THE COMMISSION ORDER REQUIRING Q. 433 THAT FUTURE NRC STUDIES BE BASED ON TIME AND MOTION STUDIES? 434 Yes. Owest is in the process of complying with just such an Order from the Washington A. 435 Commission. Nonrecurring rates in South Dakota should be based on this valid data as 436 well. 437 438 Q. HOW SHOULD THE COMMISSION DEAL WITH THIS ISSUE ABSENT THE 439 EXISTENCE OF TIME AND MOTION STUDIES TO SUPPORT ITS NRC 440 STUDY IN THIS CASE? 441 Absent such studies, the Commission should adopt Mr. Morrison's proposed NRC rates. A. 442 This will eliminate some of the impediments to the competitive market in South Dakota 443 in a timely manner. 444 Even though I believe that the only way to have true and correct data for NRC inputs is to 445 use inputs from a properly conducted time and motion study, I realize that even if the 446 Commission acts on my recommendation and orders such studies for Qwest in South



Dakota, that those inputs would not be available for some time. CLECs in South Dakota are currently faced with NRC charges that are orders of magnitude higher than what would be consistent with TELRIC principles, and (as I will discuss later in my testimony), the competitive market in South Dakota suffers as a result. The methodological deficiencies I have identified are, in and of themselves, sufficient grounds for the Commission to reject Qwest's NRC study. The Commission should do so. I will provide further support for such a decision in the next section of my testimony, and Mr. Morrison will provide support for adopting a modified NRC STUDY (pending time and motion studies) in his testimony which does not suffer from the faults that the Owest study suffers from, and would allow for competition to progress upon its adoption.

#### OTHER NRC STUDY FLAWS

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#### Q. HAVE YOU OBSERVED OTHER DEFICIENCIES WITH THE NRC STUDY?

Yes. In its NRC STUDY, Qwest has overstated costs by apparently failing to consider and/or account for efficiencies resulting from enhanced Operation Support Systems. This failure to consider OSS improvements and to implement process improvements, which would allow for increased mechanization in responding to CLEC orders, has resulted in an overstatement of the manual intervention required in handling orders and, therefore, results in an overstatement of the nonrecurring costs associated with these orders. In today's telecommunications environment, automation can be expected to displace much of the need for telecommunications technicians to handle orders manually. When orders



"flow through" the system on an automated basis, significant cost savings can occur. A review of the Qwest filing reveals the existence of OSS technology platforms that have the potential of providing these cost efficiencies. These systems should be expected to increase system flow-through (decrease the need for manual intervention) and significantly decrease costs. OSS can only provide efficiency savings when used in conjunction with the associated connection process. In other words, if Qwest has access to these technology platforms, but is not (1) using these systems to perform these activities; (2) nor reflecting the efficiencies of this technology in its NRC STUDY, then the NRC STUDY will overstate costs.

A.

## Q. IS QWEST OVERSTATING COSTS BY UNDERSTATING ITS ABILITY TO TAKE ADVANTAGE OF CURRENTLY AVAILABLE SYSTEMS?

It is my conclusion that Qwest is indeed overstating costs in its NRC STUDY in this manner. As Mr. Morrison will discuss in additional detail, many activities detailed in the cost model indicate excessive fallout probabilities that are not consistent with state-of-the-art practices, that ignore process improvement methods, and consequently, overlook forward-looking cost savings potential. This failure to consider these technological advances in the model is a flaw in that reasonable forward-looking assumptions are disregarded. In the NRC STUDY, the probability factors reflect the extent to which Qwest makes use of state-of-the-art Operational Support Systems and to which orders "flow through" or alternatively fall out of a mechanized system. The flow through rate associated with each task can have a significant impact on nonrecurring costs. It is



extremely important in the context of nonrecurring cost studies that historical fallout rates be adjusted to reflect technological efficiencies and process improvements.

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YOU MENTIONED PREVIOUSLY, THAT IN YOUR REVIEW OF THE QWEST FILING, THE EXISTENCE OF OSS TECHNOLOGY PLATFORMS THAT HAVE THE CAPABILITY OF PROVIDING COST EFFICIENCIES WAS REVEALED. CAN YOU COMMENT FURTHER ON THAT OBSERVATION? Yes. As Mr. Morrison will discuss in greater detail in his testimony, the probability factors used in the NRC STUDY do not reflect the flow through capabilities of the stateof-the-art technologies widely available to telecommunications carriers. In order to present this Commission with nonrecurring costs that reflect forward-looking costing principles, Mr. Morrison advocates making adjustments to the NRC STUDY to reflect a 2% fallout factor. It is reasonable to expect a fallout rate of 2% to reflect forwardlooking quality/cost efficiencies from a company that is committed to ongoing process improvements. In fact, the state Commissions in Connecticut (Docket No. 97-04-10, May 20, 1998 and Docket No. 98-09-01, January 5, 2000) Michigan (Case No. U-11280 -- November, 1999) and Massachusetts (Docket No. D.P.U./D.T.E. 96-73/74, 96-75, 96-83, 96-94-Phase 4-L Consolidated Arbitration Ruling, October 19, 1999) have ordered 2% fallout factors to be applied to the entire nonrecurring cost estimation process. Further, it is important to view fallout in the context of the complete connect process rather than accepting it at each process step, which would in effect, compound the quality failure effecting customer service. Therefore, in order to appropriately apply fallout, the



fallout factor should be incorporated once to the *entire* process rather than to each step in the process.

A.

## Q. WHAT DOES THE 2% FALLOUT FACTOR REPRESENT IN TERMS OF TODAY'S TECHNOLOGIES?

The 2% fallout rate reflects technological advances that have occurred over the past years and is reasonably attainable by Qwest. Over the past five decades, technology has evolved from an era when most connect and disconnect activities were performed on a manual basis, to a point where mechanization of these activities began to occur through the utilization of stand-alone databases. An example of such technological advances would be the replacement of paper records with databases in the 1950s. This technological improvement reduced the time associated with telephone company employees finding information. Over the past fifty years, such advances have reduced, and in some cases eliminated, the need for manual intervention and allowed tasks to "flow through" a mechanized system where activities occur by way of systems interacting directly with other systems to provide a given output. Over the past ten years, systems have been further automated so that support systems and related databases have been coupled with intelligent network elements that allow all of the activity steps required to connect and/or disconnect services to be automated, thereby eliminating the need for manual intervention in many cases.



534 DO EFFICIENT CARRIERS TYPICALLY HAVE PROCESSES IN PLACE Q. 535 THAT IDENTIFY THE CAUSE OF FALLOUT SO THAT FLOW-THROUGH 536 CAN BE MAXIMIZED? 537 Yes. Efficient carriers have a formalized process which allows them to achieve A. maximum flow through and to minimize manual intervention and costs. 538 539 540 Q. IS OWEST'S NRC STUDY BASED ON SUCH A FORWARD-LOOKING 541 PROCESS? 542 A. No. The FCC's basic TELRIC costing principles dictate that a forward-looking 543 methodology must be used to determine the costs associated with unbundled network 544 elements' nonrecurring costs by making use of the most efficient technology available. 545 Therefore, once an efficient baseline is established, it is critical that the NRC STUDY reflect a forward-looking efficient framework. A review of the testimony and cost 546 studies filed by Owest in this proceeding suggests that the rates generated by the NRC 547 548 STUDY are not based on forward-looking or efficiency-enhancing concepts. 549 550 O. CAN YOU EXPLAIN HOW YOU CAME TO THAT CONCLUSION? 551 A. Yes. It is important that Qwest have a process in place designed to ensure the efficient 552 use of technology. Ignoring situations in which technology could be better used to avoid 553 repeated manual handling of problems is neither forward-looking nor efficient. An order 554 that falls out of a designed OSS flow-though process, which has the potential for generating significant manual work in order to resolve the associated problem over a 555



three year time horizon, creates the type of manual work that is a candidate for elimination by applying basic quality improvement procedures or a forward-looking technology overlay. More progressive users of technology rely on a root cause analysis ("RCA") process which is used to examine the reasons for fallout problems and to seek ways to improve system flow through once a problem has been identified. It is not clear, based on Qwest's cost studies, testimony, and data request responses whether Qwest has an effective RCA process in place. In fact, based on Staff Request 01-033 in the New Mexico proceeding Qwest admits that there is no specific threshold that triggers system enhancements. This lack of employing forward-looking concepts and applying those concepts within the NRC STUDY is yet another deficiency in the model making the rates generated by the NRC STUDY suspect.

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### Q. HAS STAFF MADE ADJUSTMENTS TO THE QWEST'S NRC STUDY TO REFLECT A 2% FALLOUT?

No. Even though Qwest incorporates fallout factors of anywhere from 5% to 40% or higher – factors that are clearly out of line with TELRIC standards, and the overstatement of these probabilities results in the assumption that tasks are performed more often manually than mechanically (a much more costly process), Staff is unable to make this adjustment to the NRC STUDY. I have found that adjusting fallout within the Qwest model – due to the manner in which it is designed – is nearly impossible.

I have identified a serious flaw in the Qwest NRC model in that adjusting these factors to reflect TELRIC standards is an extremely cumbersome manual process which if



attempted may introduce errors into the model. This is because in order to adjust these factors in Qwest's model the user must adjust each of the approximately 150 factors which may be applied separately, for each of the 244 NRC elements. Adjusting the model would therefore involve changing tens of thousands of individual cells located at different locations throughout the model. This process would take days, and, as noted, making these thousands of adjustments manually would introduce an unnecessary element of error into the adjusted model. This flaw in the Qwest model is not present in other models I have reviewed. The NRC models of other ILECs I have reviewed around the country (Verizon's wholesale nonrecurring cost model for example) are extremely user friendly, providing a matrix of NRC-related tasks and their associated occurrence factors on a separate worksheet within the workbook model. This allows for the user to adjust those factors in a matter of hours rather than days, because copy/paste techniques can be used, due to the central location of the cells, with a high degree of accuracy. The inability to adjust these critical input factors represents yet another flaw to the model, and the fact that these factors can not be adjusted reflects the conservative nature of Staff's resulting proposed nonrecurring rates.

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#### THE ANTI-COMPETITIVE NATURE OF QWEST'S NRC STUDY

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Q. CAN YOU DESCRIBE THE IMPACT ON COMPETITION IN SOUTH DAKOTA

OF THE COMMISSION ADOPTING THE NONRECURRING RATES

PROPOSED BY QWEST IN THIS PROCEEDING?



Nonrecurring costs ("NRCs") are associated with the activities required in the initiation and provisioning of wholesale services, interconnection, or unbundled network elements. NRCs are incurred by CLECs when they order a service from, interconnect with, or purchase UNEs from an ILEC. Because NRCs are nonrecurring, by definition, these are one-time, up front costs that must be paid before the CLEC is allowed to provide service. The total costs associated with the tasks required in the provisioning of the UNE comprise the NRC for the UNE. If these costs are biased, based on inefficient estimates, or overstated in any other way, as are Qwest's proposed nonrecurring costs, carriers not only pay an amount sufficient for Qwest to recover its costs, they pay an additional fee to Qwest. Because nonrecurring rates are paid up front, before the CLEC can begin providing service and recovering its costs, this fee can be thought of as a market entry fee, to which Qwest is not subject.

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A.

#### Q. WHAT ARE THE COMPETITIVE RAMIFICATIONS OF THIS MARKET-

#### ENTRY FEE?

Obviously, CLECs who would have to pay in excess of TELRIC rates would have a more difficult time (from a financial perspective) entering the market and building a broad customer base than if rates were in line with TELRIC pricing principles. Additionally, to the extent that CLECs are subject to charges to which Qwest is not, Qwest would have an additional competitive advantage (in addition to being the dominant carrier) over CLECs making entry into the market less likely.



By adopting the adjusted NRC rates as proposed by the Staff in this proceeding, the 622 Commission can mitigate the anti-competitive impact of these up front fees and increase 623 624 the likelihood that South Dakota consumers will benefit from sustainable competition in 625 South Dakota. 626 627 **CONCLUSION** 628 PLEASE SUMMARIZE YOUR TESTIMONY AND PROVIDE YOUR 629 Q. 630 RECOMMENDATIONS. The Owest NRC study suffers from many deficiencies with respect to the inputs used by 631 A. 632 Owest. These deficiencies result in NRC rates that are overstated and inconsistent with 633 FCC pricing principles. I therefore recommend that the Commission reject Qwest's 634 proposed NRC rates, and instead, adopt the rates proposed and supported by Mr. 635 Morrison. 636 I further recommend that the Commission order Owest to conduct time and motion 637 studies, in concert with the parties to this case. The results of these properly conducted 638 studies would be used as inputs into the NRC STUDY in order to set permanent rates for 639 Qwest in South Dakota. 640 641 DOES THIS CONCLUDE YOUR TESTIMONY? Q. 642 A. Yes

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SOUTH DAKOTA PUBLIC UTILITIES COMMISSION

# Attachment MLS\_1

Case No. PU-2342-01-296
Qwest Corporation
Direct Testimony of Robert H. Brigham
Exhibit No. RHB-4
January 6, 2003

### EXHIBIT RHB-4 TO THE DIRECT TESTIMONY OF ROBERT H. BRIGHAM

SUPPORTING DOCUMENTATION FOR QWEST'S NONRECURRING COST STUDY\*

<sup>\*</sup> Qwest's Nonrecurring Cost Study (Study #7222) and Nonrecurring Cost Model ("ENRC") are contained in Exhibits RHB-2 and RHB-3, respectively.

### NONRECURRING ELEMENTS NORTH DAKOTA

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The purpose of this binder is to support the Nonrecurring Cost Studies for Unbundled Network Elements.

The binder is divided into segments as indicated by the header titles on the table of contents page.

Glossary of Acronyms is a list of all acronyms including the definition of each acronym identified within the supporting documents.

Work Group Descriptions, Task Times, and Probabilities contains a description of the work group responsibilities within each tab. Each tab contains the supporting documentation that includes detail of the work activities, times and probabilities for each group for each element.

# ACRONYM DEFINITION

ACNA Access Customer Name Abbreviation

ACTL Access Carrier Terminal Location

AP/SAC POINT Access Point/Serving Area Connection

APP Automated Provisioning Platform

ARMAR Automatic RMA (Request for Manual Assistance) Resolution

ASR Access Service Request

ATM Asynchronous Transfer Mode

BAN Billing Account Number

BHM Busy Hour Minutes

BOSS/CARS Billing & Order Support System/Customer Account Retrieval System

CCSAC Common Channel Signaling Access Capabilities

CCT-D Cust. Comm. Tech.-Design

CCT-I Customer Communication Technician-Implementor

CD Circuit Detail

CDOC CI Prep Document (Central Office version of the WORD (Work Order Record Detail) document)

CFA Connecting Facilities Arrangement

CFA Carrier Facilities Assignment

CIC Circuit Identification Code

CLEC Competitive Local Exchange Carrier
CLLI Common Language Location Identifier

CLO Circuit Lavout Order

CO Central Office

CORAC Central Office Resource Allocation Center

COT Central Office Technician
CP Communications Processor

CPD Common Planning Document

CRON Automated Order Load in WFA-DI (Work Force Administration - Dispatch In)

CRS Circuit Reset Testing

CSPEC Common Systems Planning & Engineering Center

CSR Customer Service Record
CTC Customer Transfer Charge

CWL Circuit Work Location (each Central Office location involved on the order)

CXR Carrier or Call Transfer

CXRD Identifies frame locations for carrier systems. Is a means to add restrictions or update carrier records.

CXRF Displays framing locations for a carrier facility.

#### *ACRONYM* DEFINITION

CXRH

Displays header portion of carrier system records.

**CXRS** 

Displays vacancies or individual circuits working on each channel slot of a specific carrier.

DA/OPR

Directory Assistance/Operator Services

DACS-EDSX

Digital Access & Cross Connect System

DD

Due Date Critical Date

DIP

Dedicated Inside Plant

DITSC

An Installation or Trouble Work Request screen in WFA-DI (Work Force Administration - Dispatch In)

DLR

Design Layout Record

DOSOI

Service Order Installation screen in WFA-DO (Work Force Administration - Dispatch Out)

DRI

Design Related Information

DS I&M Technician Designed Services Installation and Maintenance Technician

DSX

Digital Signal Cross Connect

DSX-1

Digital Signal Level 1 Cross Connect

DSX-3

Digital Signal Level 3 Cross Connect

DTT

Direct Trunk Transport

DVA

Designed, Verified, and Assigned Critical Date

EAS

Extended Area Service

EF

**Entrance Facility** 

**EPOC** 

Engineering Point of Contact

**EXACT** 

**Exchange Access Carrier Tracking** 

**FACS** 

Facility Assignment and Control System

FCD

Frame Continuity Date

**FEYXA** 

Displays the # of carrier systems in-effect, pending and planned. Used to: 1) add new carrier groups. 2) remove carrier allocatic

groups. 3) add or remove designs from an alloccation group. 4) update percentage of planned adds.

FID

Field Identifier Code

FOC

Firm Order Confirmation

FRS

Frame Relay Service

FT

Flow through

**GCNOTE** 

A means to record pertinent notes pertaining to a particular design.

GCOCCA

**GCOCMA** 

Allows user to perform initial logging of pending circuit orders, canceling or deleting existing orders as well as the subsequent

supplementing, correcting and rescheduling of orders. This screen is designated for Exchange Access use.

Generic Order Control Message Access

GOC

Generic Order Control

HDSL

Hi-Bit Rate Digital Subscriber Line

I&M

Installation and Maintenance field forces

**LABS** 

Integrated Access Billing System

# ACRONYM DEFINITION

ICACI Access Service Request Additional Circuit Information Screen

ICCA2 Access Service Request Circuit Administration Center Response Screen

ICDF Interconnector Distributing Frame

ICNTS Access Service Request Notes Screen

ICO Independent Company

ICORD Access Service Request Order Screen

ICS Internal Communications Services

IMA Interconnect Mediated Access

IOF Inter Office Facilities

ISC Interconnect Service Center

IXC Interexchange Carrier

IWS Intellegent Work Station

LAN Local Area Network

LFACS Loop Facilities Assignment and Control

LIS Local Interconnection Service

LNO Local Network Operation

LOA Letter of Authorization

LOOP2 This is a screen to record the outside facilities i.e., ca., pr for DSO orders only. The information is then transferred over to the

by the system.

LPADM Records the addresses and contact names & numbers for each end of the circuit and then transferred over to be part of the de-

LPC Loop Provisioning Center

LRAC Load Resource Administration Center

LSR Local Service Request

LST Line and Station Transfer

MDF Main Distributing Frame

MUX Multiplexer

NID Network Interface Device
NPA Number Planning Area

NSMC Network Services Maintenance Center

NXX First three characters of a seven digit telephone number

OCO Overall Control Office

OPS/INE Operations Processing System/Intelligent Network Element

OSP Other Service Provider

OSSCN Circuit Notes screen in WFA-C (Work Force Administration - Control)

OSSCWL Circuit Work Location screen in WFA-C (Work Force Administration - Control)

OSSLOG Work Request Log screen in WFA-C (Work Force Administration - Control)

# ACRONYM DEFINITION

OSSLST Order List screen in WFA-C (Work Force Administration - Control)

OSSOI Order installation screen in WFA-C (Work Force Administration - Control)

OWDDOC WORD (Work Order Record Detail) Document screen in WFA-C (Work Force Administration - Control)

PAWS Position Analysis Workstation

PCFLOW Traces the history of a given work item.

PCLIST This is a work management list for a given work position.

PDAC Planning Design Access Code

POA Proof of Agency

POTS Plain Old Telephone Service

PTD Plant Test Date

RC1CIC Compliment screen allows user to create, update, remove or display a TCIC compliment.

RC1CIT This activity screen allows user to post or unpost TCICs to one or more message trunks.

RDLOC Venue for locating addresses, locations and/or specific locations within a Central Office by CLLI cod

RID Record Issue Date

RMA Request for Manual Assistance

RTAD This function implemented on the circuit detail screen brings back performance monitoring (testing) information on the desig

RTT This is the Referral Tracking Tool that is used as communication between designers, testers and capacity provisioning to mon

held orders in need of equipment, facilities, job site visits, etc.

SCCXR/SCC2R SCCXR is where planned carrier systems are created, maintained and removed. SCC2R is a continuation of this screen.

SCR Screener Critical Date

SDC Service Delivery Coordinator

SIG Signal Interval Guide

SOA Service Order Administrator

SOAC Service Order Analysis and Control

SOP Service Order Processor
TAG Technical Advisory Group
TAS Trunk Assignment System

TASASG Trunk Assignment System Assignment Screen in Generic Trunk Assignment System

TASTGN Trunk Assignment System Trunk Group Screen in Generic Trunk Assignment System

TAXI Terminal Access for Interexchange Inquiry

TGMR/TRDB Trunk Group Message Record/Trunking Record Database

TIRKS Trunk Inventory Records Keeping System

TQ Translations Questionnaire
TRDB Trunking Record Database

TSC Two Six Code (Trunk Group - 2 alpha, six numeric)

TUF/IABS Translator of USOCs (Universal Service Order Codes) and FIDs (Field Indentifier Codes)/Integrated Access Billing System

# ACRONYM DEFINITION

UDC Universal Digital Channel

UDIT Unbundled Dedicated Interoffice Transport

USOC Universal Service Order Codes

USW US WEST

WA Work Authorization

WFA Work Force Administration

WFA-C Work Force Administration - Control Module

WFA-DI Work Force Administration - Dispatch In Module

WFA-DO Work Force Administration - Dispatch Out Module

WFM Work Flow Manager

WORD Work Order Record Detail

WORD Document Work Order Record Detail Document

XBOX Is the place where two sets of pairs are connected to provide continuity to the circuit, i.e., cable pairs come from the Central (

and are connected to a different set of cable pairs to the customer.

ZRGRP Trunk group record.

# INTERCONNECT SERVICE CENTER

Serves as the primary order provisioning contact for Competitive Local Exchange Carrier (CLEC) customers who purchase unbundled network elements products and services (i.e. Number Portability, Unbundled Loop, Unbundled Lineside Port, Resale) from Qwest.

The center provides end-to-end order coordination from request through order completion and serves as the primary liaison for the customer for all downstream organizations.

# TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems
  encountered during the work activities to process the service order. System
  downtime or times spent resolving internal order flow procedures are examples
  of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

| UNE-P POTS, CTC process & times received from Sami   | Hooper 303-9       | 65-3711            |                   |
|--|--------------------|--------------------|-------------------|
| Update March, 2001 to reflect full IMA flow through (95%   |                    |                    |                   |
| Process, Times & Probabilities for POTS to L   | JNE-C              |                    |                   |
|  |                    |                    |                   |
| Task Description 1st Line (mechanized)   | <u>Time in Min</u> | <u>Probability</u> | <u>Waqe Scale</u> |
| If LSR errors in the SOP or fails flow through edits   |                    |                    |                   |
| the LSR is screened and routed to an order writer  |                    |                    |                   |
| Screen and route   | 5                  | 0.05               | OS scale 7        |
|  |                    |                    |                   |
| Order Writer accesses LSR, manually enters order in SOP and faxes an FOC (Firm Order Confirmation) to the reseller. Logs |                    |                    |                   |
| minimal data in CRM.   |                    |                    |                   |
| Type Change Of Service Provider 1st Line   | 10                 | 0.05               | OS scale 7        |
|  |                    |                    |                   |
| Task Description Additional Line (mechanized)  | <u>Time in Min</u> | <u>Probability</u> | Wage Scale        |
| 3 )Order Writer manually enters order in SOP and faxes an  |                    |                    |                   |
| FOC (Firm Order Confirmation) to the reseller.   |                    |                    |                   |
| To a Olivera Of O and a David a A III in   |                    |                    |                   |
| Type Change Of Service Provider Adl Line   | 3                  | 0.05               | OS scale 7        |
| Took Progrintion 1st Line (manual)   | Time in Min        | D                  | W 0               |
| Task Description 1st Line (manual)   | <u>Time in Min</u> | <u>Probability</u> | <u>Waqe Scale</u> |
| 1) Pre order, Outsourcer receives request for CSR  |                    |                    |                   |
| eseller, accesses CSR via BOSS/CARS database, gathers  |                    |                    |                   |
| rcds & faxes to reseller. (CSRM)  Receive request & send CSR   | 3                  | 1                  | 00 1- 7           |
| neceive request a seria CSh  | 3                  | I                  | OS scale 7        |
| 2) Order Screener receives firm LSR (via fax), screens for fatal   |                    |                    |                   |
| rejects, faxes LSR to appropriate center for logging and typing.   |                    |                    |                   |
| Receive & Screen LSR   | 5                  | 1                  | OS scale 7        |
|  |                    |                    |                   |
| 4 )Order Writer (using LSR), manually enters order in SOP and sends a FOC (Firm Order Confirmation) to the reseller.     |                    |                    |                   |
| Logs minimal data in CRM   |                    |                    |                   |
| Type Change Of Service Provider 1st Line   | 10                 | 1                  | SOA scale 7       |
|  |                    |                    |                   |
| Task Description Additional Aditional Line   |                    |                    |                   |
| (manual)   | <u>Time in Min</u> | Probability        | <u>Waqe Scale</u> |
| Order Writer (using LSR), manually enters order in SOP and   |                    |                    |                   |
| sends a FOC (Firm Order Confirmation) to the reseller. Logs  |                    |                    |                   |
| minimal data in CRM.   |                    |                    |                   |
| Type Change Of Service Provider Adl Line   | 3                  | 1                  | SOA scale 7       |
|  |                    |                    |                   |
| nt codes - OS scale 7 6623 12300   |                    | Í                  |                   |

| repared By Sami Hooper 303 965-3711   | •                |                     |                   |
|---|------------------|---------------------|-------------------|
| esign times from Kathy Platts   |                  |                     |                   |
| n-00  |                  |                     |                   |
| Task Description 1st Circuit Conversion   | Time in Min      | Probability         | I phor Cross      |
| Task Description 1st Circuit Conversion   | Time in will     | Probability         | Labor Group       |
| RVICE DELIVERY CENTER   |                  |                     |                   |
| ch circuit received and typed separately no additional circuit effi                     | ciency, no IMA e | efficiency all orde | rs manually typed |
|   |                  |                     |                   |
|   |                  |                     |                   |
| Service Order Administrator receives firm LSR (via fax).                                |                  |                     |                   |
| reens for fatal rejects, and logs LSR.  Receive & Screen LSR                            | 5                | 1                   | ISC               |
| Mediate & Green Built   |                  |                     |                   |
| Service Delivery Coordinator (using LSR), verifies address                              |                  |                     |                   |
| d NC NCI combination, Manually enters a disconnect(IABS)                                |                  |                     | IWSC              |
| and New connect order in SOP (Service Order Processor)  Type Change of Service Provider | 20               | 1                   |                   |
|   |                  |                     |                   |
| Service Delivery Coordinator faxes a FOC  |                  |                     |                   |
| irm Order Confirmation) to the co-provider and logs CRM                                 |                  |                     | IWSC              |
| Fax FOC to co-provider  | 2                | 1                   | ·                 |
| Service Delivery Coordinator accesses order in SOP, corrects                            |                  |                     |                   |
| service order errors and completes order.   |                  |                     | IWSC              |
| Correct & Complete Order in SOPS  | 5                | 1                   | 02                |
| : <u>s</u>  |                  | <u></u>             |                   |
|   |                  |                     |                   |
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|   |                  |                     |                   |
|   |                  |                     | VSC               |
|   |                  |                     |                   |
|   |                  |                     |                   |
|   |                  |                     |                   |
|   |                  |                     |                   |

, process and unles for transfering existing PRIVATE LINE customers.

:: [rwa: Conocation Transitions]

Subject: Re: [Fwd: Collocation Transitions]
Date: Thu, 30 May 2002 14:33:50 -0500
From: Deni Toye <dtoye@qwest.com>

Organization: Qwest Corporation

To: Daniel Deffley <ddeffle@qwest.com>

Yes, if it is designed service, the Implementor would be the one to do the documentation and completion of the WFA order.

Deni

#### Daniel Deffley wrote:

```
> I'm ok with that for the collo study. That one is done. Now I'm referring to a
> Private Line to Unbundled Element conversions. Its mostly work in the ISC to
> change billing but was told at one time that the Design Center will have a small
> amount of work to do on these orders. Again, verifying which tech does this work.
> I currently show a designer but think it should be the implementor.
> Thanks,
כת <
> Deni Toye wrote:
> > Hi Dan,
>> This work is done by the Implementor, not the Designer. This would be when one
>> CLEC buys another CLEC collocation and the Billing name needs to change to the
> > New CLEC. This should all be flow through for the designer.
> > Mahalo.
> > Deni
> > Daniel Deffley wrote:
> > > Deni,
· > > Here is the memo you sent before. Just checking to see if this applies
->> for Private Line to Unbundled Element conversions. Currently, I show
> > this work being performed by a Designer for conversions rather than an
> > > Implementor.
  > > Thanks,
> > DD
> > >
> > >
> > Subject: Re: Collocation Transitions
> > Date: Mon, 08 Apr 2002 13:22:27 -0500
> > > From: Deni Toye <dtoye@gwest.com>
> > Organization: Qwest Corporation
> > To: Daniel Deffley <ddeffle@qwest.com>
>> References: <3CB1B9E2.EBC92A48@qwest.com> <3CB1CA8A.A1F71662@qwest.com>
> > >
>>> The total time would be 5 min. If it needs to be broken down, the screening
>> > would be 2 min and the closeout would be 3 min.
> > > Deni
> > >
> > Daniel Deffley wrote:
> > >
> > > Deni.
>>> Yes, please add the time per step or summarize the total time to perform
> > > these activities.
  > > > Thanks.
> > > Dan D.
> > > >
> > > Deni Toye wrote:
> > > > Hi Dan
>>>> When one company buys another companies collocations, these are the
>>>> steps that the Implementor will need to do:
>>>> 1. Screen the order
>>>> 2. Close out activities including CLEC contact and close out of WFA/C
 >>> screens with respective field completion.
> > > > >
>>>> Are you needing more verbiage?
> > > > Thanks,
```

```
> > > > Deni
> > > > >
>>>>
>>>> - Confidential Use Only -
>>> Disclose and Distribute Only to Qwest Employees Having a Need to Know.
>>>> Disclosure outside of Qwest is prohibited without authorization.
>>> --
> > - Confidential Use Only -
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> > >
> > >
> > >
> > >
      Deni Toye <dtoye@qwest.com>
> > >
>>> Deni Toye
> > >
         <dtoye@qwest.com>
> > >
        Pager: 800-946-4646 Pin 148-1534
> > >
        Fax: 515-323-0181
> > >
         Work: 515-286-6440
>>> Additional Information:
>>> Last Name
                      Tove
>>> First Name
                      Deni
>>> Version
                      2.7
> > --
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```

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Deni Toye <a href="mailto:dtoye@qwest.com">dtoye@qwest.com</a>

Subject: Resale Frame Relay Account Consultant info

Date: Fri, 9 Mar 2001 08:48:20 -0600

From: mrushen@uswest.com
To: ddeffle@qwest.com

Hello-

Here is the information I promised you yesterday. Let me know if you have

any questions.

Thanks!

<<Resale Cost.doc>>

Marilyn Rushenberg Account Consultant 612-664-3438 (voice) 612-680-9515 (pager) 612-664-4776 (fax) <<...OLE\_Obj...>> March 9, 2001

Hello-

Here is the information you were requesting yesterday as it regards Account Consultant action for resale frame relay orders.

The following is the breakdown of the general activity: Input order into FRSR (Frame Relay Service)

This activity includes:

- 1. Verifying or building customer name and address into !SYS database
- 2. Verifying that all pertinent information is provided on LSR including (but not necessarily limited to):
  - -Type of service required (access link type etc)
  - --Billing information
  - -Billing contact information
  - -- Contract information
  - --Service address
  - -Wiring instructions
  - -Site contact information
  - --Repair contact information
  - --PVC information
  - -- Due date
  - 3. Build the FRSR applet and send forward to DAOS (order specialists)

Also, the average amount of time for these activities, as we discussed yesterday, is 12 minutes, in my opinion, assuming that all pertinent information is on the LSR.

Call me with questions. Thanks!

Marilyn Rushenberg Account Consultant 612-664-3438 (voice) ~ 612-680-9515 (pager) 612-664-4776 (fax) <<...OLE Obi...>> Subject: change in numbers

Date: Fri, 9 Mar 2001 11:37:34 -0600

From: tbeager@uswest.com
To: ddeffle@gwest.com

Customer service delivery (Data Applications Order Specialist)

Verify FRSR (Frame relay service) 10
Address Verification 5
Send to EXACT/Assign order 5
Send information to IABS and updates ORACLE 3
Issue IABS order 10
Complete IABS order and send to billing 10

Here is an explanation for the time frames surrounding what the DAOSs due. Verify FRSR (frame relay service)

Verify that all of the information on the FRSR is complete and accurate:

Verify disconnect for pending order

Verify accurate circuit information

Calculate termination if necessary

Verify BAN

Verify customer name

Verify NC code for type of circuit

Verify MCN

Verify ACNA

Verify billing and contract information

Address Verification

Verify CFA in facility check

Verify address in facility check

Verify LSO in facility check

Issue IABS order

Verification of order

Manual entry of remarks

Manual issuance of "R" orders

Disconnects may require EBD

Disconnects require "fetching" the circuit and changing all action codes to  $\boldsymbol{0}$ 

After issuing the order go back to FRSR to update translation date Complete IABS order

When on order can not complete automatically, investigation as to why, fix the problem, and complete the order.

Dan anytime we are doing verification it can result in having took fix a problem before proceding. If you have any questions please give me a call.

Thanks, Terri

612 664-3469

#### NOTICE

# SERVICE DELIVERY COORDINATOR

Wholesale markets – Service Delivery serve as the primary order provisioning contact for CLECs, Interexchange Carriers and Wireless customers who purchase complex wholesale and retail products and services (i.e., Private Line, Feature Group, LIS Trunking, Centrex Resale, Number Portability) from Qwest.

The center teams provide end-to-end order coordination from request through order completion and serve as the primary liaison for the customer for all downstream organizations.

### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

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  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems
  encountered during the work activities to process the service order. System
  downtime or times spent resolving internal order flow procedures are examples
  of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

Subject: Cost Study

Date: Tue, 21 May 2002 10:37:36 -0600 From: "Cindy Kalakis" <ckalaki@qwest.com>

To: ddeffle@uswest.com

CC: "Terri McQuiston" <tporter@notes.uswc.uswest.com>

- , "Linda Kae Olsen" <lxolsen@notes.uswc.uswest.com> , "Ronda Bergstedt" <rbergst@notes.uswc.uswest.com>
- , "Nancy Chapman" <nljohns@notes.uswc.uswest.com>

#### Dan:

Attached is the cost study spreadsheets for Private Line, Switched Access, LIS and UDIT.

I did a comparison on like functions and it seems we are in synch. There are some differences with the SHNS-SST because of the complexity of the product but I think we are either the same or justifiably different where appropriate between all the products.

If you need to get us all together again to discuss, let me know, I'll be happy to set up a meeting, or you can talk to the Product Process Specialist for each product if you have questions.

Thanks for your patience!

Cindy

(See attached file: SDC TIMES 2002-Summary-all prod.xls)

Name: SDC TIMES 2002-Summary-all

prod.xls

SDC TIMES 2002-Summary-all prod.xls

Type: Microsoft Excel Worksheet

(application/vnd.ms-excel)

Encoding: base64

SOUE LINDA KAE OLSON STAFF MANAGER

| INSTALL |                            |  |                | Time E          | stimates |                 |  |         |         |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                |  |                |  |                 |  |                |  |                |  |                 |  |       |
|---------|----------------------------|--|----------------|-----------------|----------|-----------------|--|---------|---------|-----------------|--|-----------------|--|-----------------|--|-----------------|--|-----------------|--|-----------------|--|-----------------|--|----------------|--|----------------|--|-----------------|--|----------------|--|----------------|--|-----------------|--|-------|
|         |                            |  | FACILITY       | TRUNKS          |          |                 |  |         |         |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                |  |                |  |                 |  |                |  |                |  |                 |  |       |
| Item    | Item                       | Work Activity  | ENTRANCE       | INSTALL INSTALL |          | INSTALL INSTALI |  | INSTALL | INSTALL | INSTALL INSTALL |  | NSTALL INSTALL |  | NSTALL INSTALL |  | INSTALL INSTALL |  | NSTALL INSTALL |  | NSTALL INSTALL |  | INSTALL INSTALL |  | Notes |
| #       |                            | Description  | FACILITY       | FIRST           | EA ADDL  | Change          |  |         |         |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                |  |                |  |                 |  |                |  |                |  |                 |  |       |
| 1       | Receive ASR mechanically   | ASR is received mechanically through   | 1 min.         | 1 min.          | na       | 1 min           | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. *90% of ASRs are mechanical   |         |         |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                |  |                |  |                 |  |                |  |                |  |                 |  |       |
| 1a      | Receive ASR via FAX*       | Input ASR into EXACT Manually  | 10 min         | 10 min          | na       | 10 min          | This is the time that it would take the SDC to manually input the information on all the EXACT screens. *10% of ASRs are manually faxed.                                       |         |         |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                |  |                |  |                 |  |                |  |                |  |                 |  |       |
| 2       | Validate ASR in<br>EXACT   | Check for the accuracy of the ASR fields and make sure all information is present CheckRDLOC screen to validate who  | 10 min         | 10 min          |          | 10 min          | Entries are made to add order number, circuit ID and intervals to the service order. The address is validated for accuracy. TheQwest EXACT screens are populated in this step. |         |         |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                |  |                |  |                 |  |                |  |                |  |                 |  |       |
| 3       | Validate ACTL in TIRKS     | owns the ACTL.   | 2 minutes      | 2 minutes       | na       | na              |  |         |         |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                |  |                |  |                 |  |                |  |                |  |                 |  |       |
| 4 5     | Verify LOA* Assign new TSC | Check to see if LOA is necessary. If LOA is needed is it on file or does the SDC need to request a new one.  In TRDB assign TSC if request is for a new trunk group.                     | 1 min<br>4 min | 1 min           | na       | na              | *65% of the time   |         |         |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                |  |                |  |                 |  |                |  |                |  |                 |  |       |
| 6       | Verify TAXI                | Make sure the TSC and circuit ID passed by the customer is the same on our TAXI records. Verify the BAN provided by the customer is accurate and if not accurate locate the correct BAN. | 2 minutes      | 2 minutes       | na       | 2 min           | Not required on new installations - only change orders.  |         |         |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                |  |                |  |                 |  |                |  |                |  |                 |  |       |
| 7       | Credit Info/Security       | Call billing SDC to verify credit check has been completed and security deposit received if required.  |                | 5 minutes       | na       | na              | Only required on the first install in the LATA.  |         |         |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                |  |                |  |                 |  |                |  |                |  |                 |  |       |
| .78     | validate Contract Rates    | Check the IABS TICR table/contract to ensure rates are loaded for LIS USOCs ir the customer's contract.  | 1              | 3               | 3        |                 | 3 Done 100% of the time.   |         |         |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                |  |                |  |                 |  |                |  |                |  |                 |  |       |
| 8       | Verify TQ                  | Make sure the TQ is required for type of service and that all required entries are present.  | na             | 5 minutes       | na       | na              | For LIS, verify that the NPA/NXXs listed on ICTQA are local to the SECLOC or that they have the type of arrangement that allows crossing LCA boundaries.                       |         |         |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                 |  |                |  |                |  |                 |  |                |  |                |  |                 |  |       |

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|     |  |  |        | T      | 7  |        |   |
|-----|--|--|--------|--------|----|--------|---|
|     | Intra Company Calls Order Distribution - DS1 facility and/or EF  | Handling calls from the IXC and from within the company regarding the ASR.   | 13 min | 13 min | na | 13 min |   |
| 10A |  | Ready order from EXACT TO TUF into the order format in IABS.   | 1 min  |        |    | 1 min  | This is a manual ready command by the SDC but the translations to IABS is a mechanical process within EXACT/TUF.  |
| 10B | Validate IABS Service order  | Validate USOC suffixes for mileage and billing USOCS for circuit elements. CFA and HBAN. Check to make sure the service order is complete and accurate.  | 2 min. |        |    | 2 min  |   |
| 10C | Manually calculate charges if the service is InterLCA Facility or other manually billed products (Tandem Exhaust, etc.). | Add additional mileage USOC and calculate rate using the intrastate tariffed rates (fixed and variable) for the mileage increment.   | 5 min  |        |    | 5 min  | Applicable if the SPEC code of XLCAL1 or XLCAL2 is present or if in a state where tandem exhaust exists and other arrangements required. Contract amendment required. 3% of the ASRs. |
| 10D | Distribute Order in IABS   | Distributes order to billing system so billing SDC's can validate charges, etc.  | 1 min  |        |    | 1 min  |   |
| 11  | Validate 3 successes in<br>SOAC TIRKS interface  | Check the SOAC database for 3 success messages. This means the order has logged into TIRKS. If order has an error, it must be resolved in the appropriate service order processor before it will flow through all necessary systems. | 1 min  |        |    | 1 min  |   |
| 12  | Order Distribution Trunk   |  |        |        |    |        |   |
| 12A | EXACT/TUF/IABS   | Ready order from EXACT to TUF into the order format in IABS  |        | 1 min  | na | 1 min  |   |
| 12E | 3 Validate IABS Service order  | Validate OCL, and delete TSC's if multiple were fetched that do not pertain to this order. Verify CFA and HBAN. Check to make sure the service order is complete and accurate.   |        | 2 min  |    | 2 min  |   |
| 120 | Distribute Order in IABS   | Distributes order to billing system so billing SDC's can validate charges, etc.  |        | 1 min  | na | 1 min  |   |

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| PC List ASR                                 | PC List ASR to Tirks to mechanically build the template for the word document.  |  | 1 min  | na   | 1 min  |  |
|---|---|--|--|--|--|--|
| FOC*  |   |  |  |  |  | *You can only do one of these on an ASR. You cannot<br>mechanically and manually FOC the same ASR.<br>*Mechanical FOC is 90%<br>*Manual FOC is 10%   |
| FOC Manual                                  | Manually confirm the ASR, print the screen and fax or email to the customer. Includes the FAX of the DLR.   | 3 min  | 3 min  | na   | 3 min  |  |
| FOC Electronically Service Order Completion | Confirm ASR in EXACT, make sure the customers DRC code is present so the DLR will print to the customers location.  | 1 min  | 1 min  | na   | 1 min  |  |
| Check WFA                                   | Check WFA order for completion date and any pertinent notes or missed function codes  | 3 min  | 3 min  | na   | 3 min  |  |
| Chack IARS Sanice Order                     | Add any additional information from WFA that pertains to the service order. Make sure IABS service order is accurate for hilling                              | 5 min  | 5 min  | ,  | 5 min  | Validate required FIDs are present.  |
| Complete IABS Service                       | Type the correct codes to complete the  | 1 min  | 1 min  |  | 1 min  | validate required visite are present.  |
| Complete EXACT                              | Type correct information into EXACT and complete the ASR.   | 1 min  | 1 min  | na   | 1 min  |  |
| Note EXACT                                  | Make any applicable notes in EXACT  | 1 min  | 1 min  | na   | 2 min  |  |
| DISCONNECT                                  |   | Time Estimates   |  |  |  |  |
| INC. A CALULAN                              |   |  |  |  | 0,   | News   |
| litem .                                     | •   | FACILITY   | FIRST  |  |  | Notes  |
| Receive ASR mechanically                    | ASR is received mechanically through EXACT on a mechanized work list  | 1 min.   | 1 min.   | na   | 1 min  | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. *90% of ASRs are mechanical   |
|   | FOC*  FOC Manual  FOC Electronically Service Order Completion  Check WFA  Check IABS Service Order Complete IABS Service Order  Complete EXACT Note EXACT  Di | FOC*  Manually confirm the ASR, print the screen and fax or email to the customer. Includes the FAX of the DLR.  Confirm ASR in EXACT, make sure the customers DRC code is present so the DLR will print to the customers location.  Check WFA  Check WFA  Check WFA  Check IABS Service Order  Complete IABS Service  Order  Complete EXACT  Note EXACT  Make any applicable notes in EXACT  DISCONNECT  Manually confirm the word document.  Manually confirm the ASR, print the screen and fax or email to the customer.  Confirm ASR in EXACT, make sure the customers DRC code is present so the DLR will print to the customers location.  Check WFA order for completion date and any pertinent notes or missed function codes  Add any additional information from WFA that pertains to the service order. Make sure IABS service order is accurate for billing.  Type the correct codes to complete the order in IABS and process.  Type correct information into EXACT and complete the ASR.  Make any applicable notes in EXACT  DISCONNECT  Item  Work Activity  Description  ASR is received mechanically through | FOC*  Manually confirm the ASR, print the screen and fax or email to the customer. Includes the FAX of the DLR.  Confirm ASR in EXACT, make sure the customers DRC code is present so the DLR will print to the customers location.  The complete IABS Service Order  Complete EXACT  Note EXACT  Work Activity Description  Manually confirm the ASR, print the screen and fax or email to the customer.  I min ASR in EXACT, make sure the customers DRC code is present so the DLR will print to the customers location.  I min  Check WFA order for completion date and any pertinent notes or missed function codes  Add any additional information from WFA that pertains to the service order. Make sure IABS service order is accurate for billing.  Type the correct codes to complete the order in IABS and process.  I min  DISCONNECT  Work Activity Description  ASR is received mechanically through | FOC*  Manually confirm the ASR, print the screen and fax or email to the customer. Includes the FAX of the DLR.  Confirm ASR in EXACT, make sure the customers DRC code is present so the DLR will print to the customers location.  Service Order Completion  Check WFA order for completion date and any pertinent notes or missed function codes  Check WFA  Add any additional information from WFA that pertains to the service order. Make sure IABS service Order  Check IABS Service Order  Check IABS Service  Order  Type the correct codes to complete the order in IABS and process.  Type correct information into EXACT and complete the ASR.  Note EXACT  Make any applicable notes in EXACT  TIME ITME  Work Activity  Description  ASR is received mechanically through | FOC*  Manually confirm the ASR, print the screen and fax or email to the customer. Includes the FAX of the DLR.  Confirm ASR in EXACT, make sure the customers DRC code is present so the DLR will print to the customers location.  Check WFA order for completion and any pertinent notes or missed function codes that apertains to the service order. Make sure IABS service Order order in IABS and process.  Check IABS Service Order order in IABS and process.  Type correct information into EXACT and complete EXACT make any applicable notes in EXACT  Make any applicable notes in EXACT  Make any applicable notes in EXACT  Time Estimates  TRUNKS  Item  Work Activity Description  ASR is received mechanically through | FOC*  Manually confirm the ASR, print the screen and fax or email to the customer. Includes the FAX of the DLR.  Confirm ASR in EXACT, make sure the customers DRC code is present so the DLR will print to the customers location.  Check WFA order for completion date and any perfinent notes or missed function codes  Check WFA function codes  Check IABS Service Order  Check IABS Service Order  Complete IABS Service  Order  Order  Type the correct codes to complete the order in IABS and process.  Type correct information into EXACT and complete the ASR.  Note EXACT  Make any applicable notes in EXACT  Make any applicable notes in EXACT  Time Estimates  TRUNKS  Change  TRUNKS  Change  ASR is received mechanically through |

|    |                                  |  | T           |   |      |          |  |
|----|----------------------------------|--|-------------|---|------|----------|--|
| 1a | Receive ASR via FAX*             | Input ASR into EXACT Manually  | 10 min      | 10 min                                  | na   | 10 min   | This is the time that it would take the SDC to manually input the information on all the EXACT screens. *10% of ASRs are manually faxed.                                       |
|    |                                  | Check for the accuracy of the ASR fields and make sure all information is present  | 10 min      | 10 min                                  |      | 10 min   | Entries are made to add order number, circuit ID and intervals to the service order. The address is validated for accuracy. TheQwest EXACT screens are populated in this step. |
| 3  |                                  | Make sure the TSC and circuit ID passed by the customer is the same on our TAXI records. Verify the BAN provided by the customer is accurate and if not accurate locate the correct BAN. | 2 minutes   | 2 minutes                               | na   | 2 min    | Not required on new installations - only change orders.  |
|    |                                  |  | 2 111110165 | 2 1111111111111111111111111111111111111 | ia   | 2 111111 |  |
|    |                                  | Make sure the TQ is required for type of   |             |   |      | 1        | TQ required on complete disconnect of group to   |
|    |                                  | service and that all required entries are  |             | 5 minutes                               |      |          | ensure that traffic is re-routed if appropriate. Not   |
| 4  | Verify TQ                        | present.   | na          | 5 minutes                               | na . | na       | required on partial disconnect.  |
| 5  | Intra Company Calls              | Handling calls from the IXC and from within the company regarding the ASR.   | 3 min       | 3 min                                   | na   | 3 min    |  |
| 6  | Order Distribution DS1 and/or EF | 3  |             |   |      |          |  |
| 6A | EXACT/TUF/IABS                   | Ready order from EXACT TO TUF into the order format in IABS.   | 1 min       | 1 min                                   | na   | 1 min    | This is a mechanical process within EXACT.   |
|    |                                  | Validate CFA and HBAN. Check to make   |             | ļ                                       | ĺ    |          |  |
|    |                                  | sure the service order is complete and   |             |   |      | ·        |  |
| 6B | Validate IABS Service order      | accurate.  | 2 min.      |   |      | 2 min    |  |
|    |                                  | Distributes order to billing system so   |             |   |      |          |  |
| 6C | Distribute Order in IABS         | billing SDC's can validate charges, etc.   | 1 min       |   |      | 1 min    |  |
|    |                                  | Check the SOAC database for 3 success messages. This means the order has logged into TIRKS. If order has an error, it must be resolved in the appropriate                                |             |   |      |          |  |
|    | Validate 3 successes in          | service order processor before it will flow  |             |   |      |          |  |
| 6D | SOAC TIRKS interface             | through all necessary systems.   | 1 min       |   |      | 1 min    |  |
| 7  | Order Distribution Trunk         |  |             |   |      |          |  |
| 7A | TUF/IABS                         | Ready order from EXACT to TUF into the order format in IABS  |             | 1 min                                   |      | 1 min    |  |

SOUF LINDA KAE OLSON STAFF MANAGER

|    | STALL WINIYAGET                             | · · · · · · · · · · · · · · · · · · ·  |       |       |    |       |   |
|----|---|--|-------|-------|----|-------|---|
| 7B | Validate IABS Service order                 | Validate OCL, and delete TSC's if multiple were fetched that do not pertain to this order. Verify CFA and HBAN. Check to make sure the service order is complete and accurate. |       | 2 min |    | 2 min |   |
| 7C | Distribute Order in IABS                    | Distributes order to billing system so billing SDC's can validate charges, etc.  |       | 1 min |    | 1 min |   |
| 8  | PC List ASR                                 | PC List ASR to Tirks to mechanically build the template for the word document.   | 1 min | 1 min | na | 1 min |   |
| 9  | FOC*  |  |       |       |    |       | *You can only do one of these on an ASR. You cannot mechanically and manually FOC the same ASR. *Mechanical FOC is 90% *Manual FOC is 10% |
| 9A | FOC Manual                                  | Manually confirm the ASR, print the screen and fax or email to the customer. Includes the FAX of the DLR.  | 3 min | 3 min | na | 3 min |   |
| 9B | FOC Electronically Service Order Completion | Confirm ASR in EXACT, make sure the customers DRC code is present so the DLR will print to the customers location.   | 1 min | 1 min | na | 1 min |   |
| 10 | Check WFA                                   | Check WFA order for completion date and any pertinent notes or missed function codes   | 3 min | 3 min | na | 3 min |   |
|    | Check IABS Service Order                    | Add any additional information from WFA that pertains to the service order. Make sure IABS service order is accurate for billing.  | 5 min | 5 min |    | 5 min | Validate required FIDs are present.   |
|    | Complete IABS Service<br>Order              | Type the correct codes to complete the order in IABS and process.  | 1 min | 1 min |    | 1 min |   |
| 13 |   | Type correct information into EXACT and complete the ASR.  | 1 min | 1 min | na | 1 min |   |
| 14 | Note EXACT                                  | Make any applicable notes in EXACT   | 1 min | 1 min | na | 1 min | <u> </u>  |

# **DESIGN**

- Overall responsibility for RID (Record Issue Date) completion.
- Upholding Qwest design standards
- Assigns interoffice facilities and equipment at the circuit level
- Prepares and distributes WORD (Work Order Record Detail) including DLR (Design Layout Record).
- Ensures that TIRKS (Trunks Integrated Record Keeping System) designs meet the customer expectations.
- Escalates as necessary to ensure pre-RID dates are met.
- Advises Qwest sales forces or order originators of jeopardies as they are discovered.
- Maintains TIRKS database integrity by making design changes as they occur (i.e. cable pair changes, etc.)

## TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

Subject: Switched Design Costing

Date: Mon. 22 Jan 2001 13:15:27 -0600

From: Lori Burchett < leckard@qwest.com>

Organization: Qwest Communications International, Inc.

To: "Deffley, Daniel" <ddeffle@uswest.com>
CC: "Mirian, Marlene" <mmirian@uswest.com>

Dan,

I have totally reformatted the data. I was not comfortable messing with your document so I did my own, of which you can take and place in yours.

I really tried to streamline it. Let me know what you think before I copy it to those it pertains to.

Marlene is going to use my same format also.

Lozi

#### Design-Switched

Includes data for Feature Group, LIS, Wireless Type II, CCSAC, Link trunks and associated Facilities.

\*Switched Service orders include Trunks and Facilities on one ASR

Note: 1. Times are estimates. Percentages or for manual.

- 2. Even though a step is mechanical it may require manual verification. Those times are indicated in ( ).
- 3. Time spent on supplements, redesigns or problems on an order are not indicated.

SOURCE: LORI BURCHET - STAFF MANAGER DESIGN

1/22/01

|   | Adds/Rea  | irranges   | _                         |      |
|---|---|--|---------------------------|------|
| Task  | Trunk<br>(Per 24 trunks)                                      | Facility<br>(Per 1 facility)                       | % of M<br>Proba<br>Trunks |      |
| Order Handling/Screening. (Per ASR) A. Access WFM B. Check Exact C. Assign and Log  | (based on 1 ASR, could be more than 1 famility and 24 trunks) | included with trunks                               | 100%                      | 100% |
| Log/Verify Facility A. Bank Codes B. PDAC C. Check Facilities D. Design E. FEYNA F. SCCNR   | NA NA   | 45<br>(25 working it<br>me <del>chanically</del> ) | NA                        | 5%   |
| G. GCOCCA Brild/Validate DRI & WA A. Populate DRI B. Check CFA on DRI against EVACT   | 10<br>(4 to validate)   | 6<br>(3 to validate)                               | 5%                        | 5%   |
| C. Populate WA Build/Verify CD A. Locate Spare facilities and switch equipment B. Build & Post CD C. Perform RTAD   | 15<br>(3 to validate)   | 15<br>(5 to validate)                              | 5%                        | 20%  |
| Distribute Documents A. Verify/populate CXRH B. Distribute/Verify distributed C. Note Exact   | 2   | 4  | 100%                      | 100% |
| TAS A Populate/Verify TASTGN, TASASG, RC1CIT, RC1CIC & ZRGRP  | 15  | NA   | 75%                       | NA   |
| PCList Trunks-after facility has been distributed. C-Mate the should mechanically populate GCOCMA. SCCNR & SCCNR2. DRL WA. CD. If successful it will return with a "Remove Hold" message on the WA. |   | NA   | 100%                      | NA   |

## Disconnects

| <b>—</b> • •              |                             |                      |        |          |
|---------------------------|-----------------------------|----------------------|--------|----------|
| Task                      | Trunk                       | Facility             | % of A | ianuai   |
|                           | (Per 24 trunks)             | (Per 1 facility)     | Proba  | bility   |
|                           | 1                           |                      | Trunks | Facility |
| Order                     | 10                          | included with trunks | 100%   | 100%     |
| Frandling/Screening.      | (based on 1 ASR, could be   | !                    |        |          |
| (Per ASR)                 | more than 1 facility and 24 |                      |        |          |
| A. Access WFM             | trunks)                     | •                    |        |          |
| B. Check Exact            |                             |                      |        |          |
| C. Assign and Log         |                             |                      |        |          |
| PCList Trunks             | 2 1                         | NA NA                | 100%   | NA       |
| A. C-Mate should          |                             | *                    |        |          |
| mechanically populate     | i i                         |                      |        |          |
| GCOCMAL SCCXR &           | 1                           |                      |        |          |
| SCCNR2, WA. CD. If        | 1                           |                      |        |          |
| successful it will return | ]                           |                      |        |          |
| with a "Remove Hold"      | 1                           |                      |        |          |
| message on the WA.        |                             |                      |        |          |
| Log/Verify Facility       | NA NA                       | 8                    | NA.    | 5%       |
| A. Desermine facility     |                             | (3 working it        |        | -        |
| name.                     | i i                         | mechanically)        |        |          |
| B. Check CNRS             | 1                           | -                    |        |          |
| C. SCCXR                  | 1                           |                      |        |          |
| D. GCOCCA                 | <u> </u>                    |                      |        |          |
| Build/Validate WA         | 5                           | 5                    | 50.0   | 5%       |
| A. Populate WA            | (2 to validate)             | (2 to validate)      |        |          |
| Build/Verify CD           | 10                          | 3                    | 5%     | 5%       |
| A. Build post/verify CD   | (2 to validate)             | (2 to validate)      |        |          |
| Distribute Documents      | 2                           | 2                    | 100%   | 100%     |
| A. Distribute/Verify      |                             |                      |        | -        |
| distributed               | 1                           |                      |        |          |
| B. Note Exact             | <u> </u>                    |                      |        |          |

# Direct Trunk Transport Facility (DS1) times spread across trunk costs

| Inward                  |             | Disconnect     |           |
|-------------------------|-------------|----------------|-----------|
| $45 \min @ 5\% = 2.3$   | 25 8 min (  | @ 5% =         | .40       |
| $25 \min @ 95\% = 23.7$ | 75 3 min (  | @ 95% =        | 2.85      |
| 6 min @ 5% = .3         | 50 5 min (  | <u>@</u> 5% =  | .35       |
| $3 \min @ 95\% = 2.8$   | 35 2 min (  | @ 95% <b>=</b> | 1.90      |
| $15 \min @ 20\% = 3.6$  | 00 3 min (  | @ 5% <b>=</b>  | .15       |
| $5 \min @ 80\% = 4.6$   | 00 2 min :  | @ 95% =        | 2.00      |
| 4 min @ 100%= 4.0       | 00 2 min    | @ 100% =       | 2.00      |
| Total 40                | .15 minutes |                | 9.45 minu |

| •                        | COST ELEMENT |        | COST ELEMENT    |        | COST ELEMENT |        | COST ELEMENT   |          |
|--------------------------|--------------|--------|-----------------|--------|--------------|--------|----------------|----------|
| MULTIPLEXING             | pso          | %      | DS1             | %      | DS1          | *      | DS3            | %        |
| (UDIT)                   |              | MANUAL | ebla rigir tibu | MANUAL | to obla wil  | MANUAL | udit high sido | MANUAL . |
| (LIS)                    |              | PROD   | llo ·           | PROB   | udit 3/1 mm  | PROB   | lls            | PROB     |
| DESIGN                   |              |        |                 |        |              |        |                |          |
| WORK ACTIVITY            | 1            |        | ļ               |        | ļ.           |        |                |          |
| INSTALL                  |              |        | 1               |        |              |        |                |          |
| ORDER HANDLING/SCREENING | 5            | 0.20   | 5               | 0.20   | 2            | 0.20   | 5              | 0 20     |
| GOC ORDER LOG            | 6            | 0.20   | 6               | 0.20   | 2            | 0.20   | 6              | 0 20     |
| ENTER WA MASK            | 5            | 0 10   | .2              | 0.80   | 2            | 0.80   | 5              | 0 80     |
| PREP LOOP INPUT/DRI      | 10           | 0.20   | 15              | 0.75   | 2            | 0.75   | 15             | 0 75     |
| CIRCUIT DESIGN           | 20           | 0.10   | 30              | 1.00   | 5            | 1.00   | 30             | 1 00     |
| DISTRIBUTE WORD DOC      | 2            | 0.05   | 2               | 0.90   | 2            | 0.90   | 2              | 0 90     |
| DISCONNECT               |              |        |                 |        |              |        |                |          |
| ORDER HANDLING/SCREENING | 5            | 0.10   | 5               | 0.10   | 2            | 0.10   | 5              | 0 10     |
| BOC ORDER LOG            | 6            | 0.10   | 6               | 0.10   | 2            | 0.10   | 6              | 0 10     |
| INTER WA MASK            | 5            | 0 10   | 6               | 0 10   | 2            | 0.10   | 5              | 0 10     |
| ISCONNECT CIRCUIT        | 5            | 0.10   | 5               | 0 10   | 2            | 0.10   | 5              | 0 10     |
| DISTRIBUTE WORD DOC      | 2            | 0.10   | 2               | 0.10   | 2            | 0.10   | 2              | 0 10     |

#### NOTE:

The time estimates and probability percentages listed are forward-looking to year and 1999. These work activities are required to process a service request that falls out of the TIRKS system for mechanized design.

These are average times. The times assume the technician will not encounter problems during the manual process necessary to process the service request.

UDIT DS3/DS1 multiplexing requires all orders worked at the same time. A total of 29 orders will be worked. UDIT DS1/DS0 multiplexing high side and low side orders are worked separately, low side channels may be ordered at different times.

SOURCE: KATHY PLATTS DESIGN CENTER STAFF

1/99

# TAB 8

### CENTRAL OFFICE

Responsible for service connection in the central office and associated testing and administrative functions. Places cross-connects (jumpers), performs cross-office testing, and provides support to field installation and control center for circuit testing as required.

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems
  encountered during the work activities to process the service order. System
  downtime or times spent resolving internal order flow procedures are examples
  of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

DATE:

05-06-99

TO:

Dan Deffley

FROM-

Diane Kinkei

Designed Services Staff Manager

SUBJECT:

Interconnection, Unbundled Nerwork Elements

A review of the work activities required for processing service orders for Unbundled Network Elements and Local Interconnection Service has been completed as of May 1999.

Work groups included for this review include:

Central Office Technician
Load Resource Administration Center
Installation and Maintenance Technician
Customer Communication Technician – Implementor.

The anached sheets contain the work activities, work times, and probability of occurrence percentage required for the provisioning of Unbundled Loop Elements. A Process Description that details the work activities necessary to perform these work activities is also anached.

A group of Subject Matter Experts provided input to the data provided here. Their job titles include coach, Central Office Staff Manager, and, Designed Services Staff Managers, Designer, Central Office Technician, and Implementor. The persons providing input are recognized experts in regards to these processes by virtue of experience. The experience levels of the experts that provided input to this time study range from 5 to 20 years.

#### Key Assumptions:

- The times documented here are average times.
- They do not reflect problems encountered during the processing of the service order.
- They do not include supplements to the initial order.
- These estimates do not include any maintenance or repair time.
- \* This process is forward-looking to year-end 1999.

If you have any questions concerning the anached data, please call me on 303-896-1672.

# Central Office Time Estimates for Switched Access Service Received from Diane Kinkell 6/98

#### Assumptions:

There is no Central Office work performed at the DS0 level on trunks in Digital Switches. All work is software. This study assumes all digital switches. CO activities are for facility (Entrance Facility and or Direct Trunk Transport) orders.

Work is performed per central office. On average, CO activities occur in the serving office, one intermediate office 50% of the time, and the end office.

| JRK ACTIVITIES | MI                             | NUIES |
|----------------|--------------------------------|-------|
|                | Install                        |       |
|                | Analyze order                  | 5     |
|                | Complete Cross Coneects        | 4     |
|                | Complete WFA-DI Order          | 2     |
|                | Complete Order with CCT-I      | 3     |
| •              | Total Time 14                  |       |
|                | Disconnect                     |       |
|                | Analyze Order                  | 5     |
| (Entr          | ance Facility) Disable Circuit | 2     |
| •-             | Remove Cross-Connects          | 2.3   |
|                | Complete WFA-DI                | 2     |
|                | Total Time 11                  | .3    |

| Central Office Technician Work Activities (New Connect Order)   | DS VDS3<br>Entranco<br>Facility | DS1 Direct<br>Trumk<br>Transport |
|---|---------------------------------|----------------------------------|
| Analyze Order   | · 5 minutes                     | 5 minutes                        |
| Complete DSX Cross-connects   | : 4 mmunes                      | 4 minutes                        |
| Complete WFA-DI order   | : 2 minutes                     | 2 minutes                        |
| Complete Order with CCT-I   | 3 minutes                       | : 3 minutes                      |
| issume CO activity occurs in Serving Wirecenter and Eric Otice<br>issume an intermediate Office will require CO activity 50% of orders for DT.<br>DTE: There is no Central Office work at the DSO level on trunks in Digital Switch | The second like the             |                                  |

| Central Office Technician Work Activities Disconnect Connect Order) | DS 1/DS3<br>Entranco<br>Facility | DS1 Diract<br>Trunk<br>Transport |
|---|----------------------------------|----------------------------------|
| Analyze Order   | 5 minutes                        | 5 minutes                        |
| Disable Circuit   | 2 minutes                        | t Ma                             |
| Remove Crass-connects   | 2.3 minutes                      | 12.3 minutes                     |
| Complete WFA-DI order   | · 2 minutes                      | 2 minutes                        |

| CENTRAL OFFICE TECHNICIAN  |  |
|--|--|
|  |  |
| INSTALL  |  |
| TWO POINT DS0 UDIT   | 25000000   |
| 1. Analyze Order (2 technicians)   | 5 min  |
| 2. Contact CCT-I to work order (2 technicises)   | 3 min  |
| Complete DS0 cross-connect (2 technicisms)     Perform Line/Drap Testing (2 technicisms)   | 4 min  |
| 2. Complete Conformance Testing (2 Inclusioners)   | 8 min  |
| b. Pod work rement commerce in WFA-DI (2 tertministra)   | 2 min  |
| 7. Complete work remest with CCT-I (2 technicism) TWO POINT DSI LIDIT  | 3 mic  |
| 1. Ansiver Order (2 technicisms)   | - Carlotte   |
| 2. Contact CCT-I to work order (2 techniques)  | 5 min  |
| 5. Complete DSXI cross-connect (2 technicisms)   | 3 min<br>4 min   |
| 4. Place Loopback Text Ping (1 technicism)  5. Countries Confi   | 2  |
| Committee Conformance: Testing (1 technicism)     Post work remost committee in WFA-DI (2 technicism)  | l boer   |
| 7. Compare work remark with CCTs (7 teriminates)   | 2 min  |
| TWO POINT DSS EDIT   | 3 mm   |
| 1. Ansiver Order (2 tochnicism) 2. Contant CCCL Inc.   | 5 min  |
| Constant CCT-I to work order (2 technicisms)     Complete DSX3 error-connect (2 technicisms)   | 3 main   |
| r. Place Loopback Test Place (1 technician)  | 4 min  |
| D. Complete Conformance Testing (1 technicism)   | 2 min  |
| 6. Post work request complete in WFA-DI (2 technicisms) 7. Complete work removal with CCT-I (2 technicisms)  | 2 min  |
| MI-3-HICH SIDE (1 OFFICE)  | 3 min  |
| 1. Analyze Order (1 technicism)  |  |
| 2. Contact CCT-I to work order (1 technicists)   | 5 mm   |
| 3. Compiete DSX3 error-connect (1 technicism) 4. Place Loopinsch Test Plag (1 technicism)  | 4 coin   |
| 5. Complete Conference Testing (1 technicism)  | 2 min.   |
| O. POR WORL RESIDENCE COMPLETE IN WEA-11 () sentiminal   | 2 main   |
| 7. Committee work request with CCT-I (1 terimician)  |  |
| MISTOR COLOR   | 3 min  |
| WISTON ZIDE (I OFFICE)   |  |
| 1. Analyze Order (1 technicism)-28 DS3: 2. Connect CCT-1 to work order (1 technicism)  | 3 min  |
| 1. Analyze Order (1 technicism)-28 DS3: 2. Connect CCT-1 to work order (1 technicism) 3. Complete DSXQ cross-connect (1 technicism)-28 DS3:  | 3 min<br>3 min<br>3 min  |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Connect CCT-I to work order (1 technicism) 3. Connect DSXI cross-connect (1 technicism)-28 DS1s 4. Place Loopback Test Place (1 technicism)-28 DS1s   | 3 min  |
| L Analyze Order (1 technicism)-28 DS1s  2. Connect CCT-I to work order (1 technicism)  3. Complete DSXI cross-connect (1 technicism)-28 DS1s  4. Flace Loopback Test Plug (1 technicism)-28 DS1s  5. Complete Conformance Testing (1 technicism)   | 3 min<br>5 min<br>3 min<br>4 min<br>2 min<br>15 min  |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Contact CCT-I to work order (1 technicism) 3. Complete DSXI trust-contact (1 technicism)-28 DS1s 4. Place Loopback Test Plug (1 technicism)-28 DS1s 5. Complete Conformance Testing (1 technicism) 6. Post work sement complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work remost again CCT-I (1 technicism)-28 DS1s   | 3 min<br>5 min<br>3 min<br>4 min<br>2 min<br>15 min i  |
| L. Analyze Order (1 technicism)-28 DS1s 2. Connect CCT-I to work order (1 technicism) 3. Complete DSXI cross-connect (1 technicism)-28 DS1s 4. Flace Loophack Test Flog (1 technicism)-28 DS1s 5. Committe Conformance Testing (1 technicism) 6. Fost work sensest complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work respect with CCT-I (1 technicism)-28 DS1s M1-8-HIGH SIDE (1 OFFICE)  | 3 min<br>5 min<br>3 min<br>4 min<br>2 min<br>15 min<br>2 min<br>3 min  |
| L. Analyze Order (1 technicism)-28 DS1s 2. Connect CCT-I to work order (1 technicism) 3. Complete DSXI cross-connect (1 technicism)-28 DS1s 4. Place Loophack Test Plug (1 technicism)-28 DS1s 5. Committe Conformance Testing (1 technicism) 6. Post work sequest complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work request with CCT-I (1 technicism)-28 DS1s M1-0-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism)  | 3 min<br>5 min<br>3 min<br>4 min<br>2 min<br>15 min i  |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Contact CCT-1 to work order (1 technicism)-28 DS1s 3. Consider DSX0 true-connect (1 technicism)-28 DS1s 4. Place Loopback Test Plug (1 technicism)-28 DS1s 5. Committe Conformance Testing (1 technicism) 6. Post work rement compilers in WFA-DI (1 technicism)-28 DS1s 7. Committe work rement with CCT-I (1 technicism)-28 DS1s M1-0-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Connect CCT-I to work order (1 technicism)  | 3 min<br>5 min<br>3 min<br>4 min<br>2 min<br>15 min<br>2 min<br>3 min  |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Contact CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSX1 cross-contact (1 technicism)-28 DS1s 4. Flace Loopback Test Flug (1 technicism)-28 DS1s 5. Complete Conformance Trating (1 technicism)-28 DS1s 6. Post work sentest complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work request with CCT-I (1 technicism)-28 DS1s M1-0-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Complete DSX1 cross-contact (1 technicism) 3. Complete DSX1 cross-contact (1 technicism) 4. Flace Loopback Test Play (1 technicism)   | 3 min 5 min 3 min 4 min 2 min 15 min 2 min 3 min 3 min 4 min 4 min 4 min 4 min 5 min 4 min   |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Contact CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSX1 cross-contact (1 technicism)-28 DS1s 4. Flace Loopback Test Plug (1 technicism)-28 DS1s 5. Complete Conformance Testing (1 technicism) 6. Post work remest complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work remest with CCT-I (1 technicism)-28 DS1s M1-8-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Contact CCT-I to work order (1 technicism) 3. Complete DSX1 cross-contact (1 technicism) 4. Flace Loopback Test Plug (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Complete Conformance Testing (1 technicism)   | 3 min 5 min 3 min 4 min 2 min 15 min 2 min 3 min 5 min 3 min 3 min 3 min 5 min 5 min   |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Contact CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSX1 cross-contact (1 technicism)-28 DS1s 4. Flace Loopback Test Plug (1 technicism)-28 DS1s 5. Complete Conformance Trating (1 technicism)-28 DS1s 6. Post work sentest complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work request with CCT-I (1 technicism)-28 DS1s M1-8-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Contact CCT-I to work order (1 technicism) 3. Complete DSX1 cross-contact (1 technicism) 4. Flace Loopback Test Plug (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Post work represed complete in WFA-DI (1 technicism) 6. Post work represed complete in WFA-DI (1 technicism)  | 3 min 5 min 3 min 4 min 2 min 15 min 3 min 2 min 3 min 4 min 2 min 5 min 5 min 2 min 5 min 2 min 5 min 2 min   |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Contact CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSX1 eros-contact (1 technicism)-28 DS1s 4. Flace Loopback Test Plug (1 technicism)-28 DS1s 5. Complete Conformance Testing (1 technicism) 6. Post work semest complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work rement with CCT-1 (1 technicism)-28 DS1s M1-0-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Contact CCT-1 to work erder (1 technicism) 3. Complete DSX1 cross-contact (1 technicism) 4. Flace Loopback Test Plug (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Post work removal complete in WFA-DI (1 technicism) 7. Complete work removal complete in WFA-DI (1 technicism) 7. Complete work removal complete in WFA-DI (1 technicism)  | 3 min 5 min 3 min 4 min 2 min 15 min 3 min 2 min 3 min 2 min 3 min 2 min 5 min 2 min 5 min 2 min 5 min 7 min 7 min 7 min 8 min 9 min   |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Contact CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSX1 eros-connect (1 technicism)-28 DS1s 4. Flace Loopback Test Plug (1 technicism)-28 DS1s 5. Complete Doxformance Testing (1 technicism) 6. Post work semest complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work remeat with CCT-I (1 technicism)-28 DS1s MI-B-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Contact CCT-I to work erder (1 technicism) 3. Complete DSX1 cross-connect (1 technicism) 4. Flace Loopback Test Plug (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Post work remeat complete in WFA-DI (1 technicism) 7. Complete Work remeat complete in WFA-DI (1 technicism) MI-B-LOW SIDE (1 OFFICE)  i. Analyze Order (1 technicism)-24 DSIs   | 3 min 5 min 2 min 15 min 2 min 3 min 2 min 3 min 2 min 3 min 5 min 2 min 5 min 2 min 3 min 4 min 2 min 5 min 2 min 5 min 6 min 7 min 8 min 8 min 9 min |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Connect CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSX1 eross-connect (1 technicism)-28 DS1s 4. Flace Loopback Test Plog (1 technicism)-28 DS1s 5. Complete DSX1 eross-connect (1 technicism)-28 DS1s 6. Post work semest complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work rement with CCT-I (1 technicism)-28 DS1s 7. Complete work rement with CCT-I (1 technicism)-28 DS1s 8. Analyze Order (1 technicism) 9. Complete DSX1 eross-connect (1 technicism) 9. Complete Conformance Testing (1 technicism) 9. Complete Conformance Testing (1 technicism) 9. Complete Work removal complete in WFA-DI (1 technicism) 9. Complete Work removal complete in WFA-DI (1 technicism) 9. Complete Work removal complete (1 technicism) 9. Complete (1 technicism)-24 DS0s  | 3 min 5 min 3 min 4 min 2 min 15 min 3 min 2 min 3 min 2 min 3 min 2 min 5 min 2 min 5 min 2 min 5 min 7 min 7 min 7 min 8 min 9 min   |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Connect CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSXI cross-connect (1 technicism)-28 DS1s 4. Flace Loopback Test Plog (1 technicism)-28 DS1s 5. Complete Conformance Testing (1 technicism) 6. Fost work semest complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work remeat with CCT-I (1 technicism)-28 DS1s 7. Complete Work remeat with CCT-I (1 technicism)-28 DS1s 9. Landvze Order (1 technicism) 9. Landvze Order (1 technicism) 9. Complete DSXI cross-connect (1 technicism) 9. Complete DSXI cross-connect (1 technicism) 9. Complete DSXI cross-connect (1 technicism) 9. Complete Conformance Testing (1 technicism) 9. Complete Conformance Testing (1 technicism) 9. Complete Work removal complete in WFA-DI (1 technicism) 9. Complete Work removal complete in WFA-DI (1 technicism) 9. Complete Work removal with CCT-I (1 technicism) 9. Complete Work removal with CCT-I (1 technicism) 9. Complete Work removal (1 technicism) 9. Complete Work removal (1 technicism) 9. Complete DSO cross-connect (1 technicism) 9. Complete DSO cross-connect (1 technicism) 9. Complete DSO cross-connect (1 technicism)   | 3 min 5 min 2 min 15 min 2 min 3 min 2 min 3 min 2 min 3 min 2 min 3 min 2 min 5 min 5 min 5 min 6 min 4 min 4 min 4 min 6 min |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Contact CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSXI cross-contact (1 technicism)-28 DS1s 4. Flace Loopback Test Plog (1 technicism)-28 DS1s 5. Complete Conformance Testing (1 technicism)-28 DS1s 6. Fost work sement complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work remeat with CCT-I (1 technicism)-28 DS1s 7. Complete SDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Complete DSXI cross-contect (1 technicism) 3. Complete DSXI cross-contect (1 technicism) 4. Flace Loopback Test Plog (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Post work remeat complete in WFA-DI (1 technicism) 7. Complete Work remeat with CCT-I (1 technicism) MI-0-LOW SIDE (1 OFFICE) 1. Analyze Order (1 technicism)-24 DS0s 2. Complete DS0 cross-contect (1 technicism)-24 DS0s 4. Complete Line/Drop testing (1 technicism)-24 DS0s 5. From work remeat complete in WFA-DI (1 technicism)-24 DS0s 5. From work remeat complete in WFA-DI (1 technicism)-24 DS0s  | 3 min 5 min 2 min 15 min 2 min 3 min 2 min 3 min 2 min 3 min 3 min 2 min 5 min 2 min 5 min 5 min 6 min   |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Contact CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSXI cross-contact (1 technicism)-28 DS1s 4. Flace Loopback Test Plog (1 technicism)-28 DS1s 5. Complete Conformance Testing (1 technicism)-28 DS1s 6. Fost work sement complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work remeat with CCT-I (1 technicism)-28 DS1s 7. Complete SDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Complete DSXI cross-contect (1 technicism) 3. Complete DSXI cross-contect (1 technicism) 4. Flace Loopback Test Plog (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Post work remeat complete in WFA-DI (1 technicism) 7. Complete Work remeat with CCT-I (1 technicism) MI-0-LOW SIDE (1 OFFICE) 1. Analyze Order (1 technicism)-24 DS0s 2. Complete DS0 cross-contect (1 technicism)-24 DS0s 4. Complete Line/Drop testing (1 technicism)-24 DS0s 5. From work remeat complete in WFA-DI (1 technicism)-24 DS0s 5. From work remeat complete in WFA-DI (1 technicism)-24 DS0s  | 3 min 5 min 2 min 15 min 15 min 2 min 3 min 2 min 3 min 2 min 3 min 4 min 2 min 5 min 5 min 5 min 4 min 2 min 5 min 4 min 2 min 5 min 4 min 2 min 5 min 2 min 5 min 2 min 5 min 2 min 5 min 6 min 2 min 2 min 2 min 3 min 4 min 2 min 3 min 4 min 2 min 3 min 4 min 6 min 2 min  |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Connect CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSX1 eros-connect (1 technicism)-28 DS1s 4. Flace Loopback Test Plug (1 technicism)-28 DS1s 5. Complete DSX1 eros-connect (1 technicism)-28 DS1s 6. Post work semest complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work rement with CCT-I (1 technicism)-28 DS1s 7. Complete work rement with CCT-I (1 technicism)-28 DS1s MI-0-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Complete DSX1 eros-connect (1 technicism) 3. Complete DSX1 eros-connect (1 technicism) 4. Flace Loopback Test Plug (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Post work removal complete in WFA-DI (1 technicism) 7. Complete Work removal complete in WFA-DI (1 technicism) MI-0-LOW SIDE (1 OFFICE) 1. Analyze Order (1 technicism)-24 DS0s 2. Complete DS0 eros-connect (1 technicism)-24 DS0s 3. Complete Line/Drop testing (1 technicism)-24 DS0s 4. Complete Line/Drop testing (1 technicism)-24 DS0s 5. Post work removal complete in WFA-DI (1 technicism)-24 DS0s   | 3 min 5 min 3 min 4 min 2 min 15 min 3 min 2 min 3 min 2 min 3 min 4 min 2 min 5 min 2 min 5 min 5 min 4 min 6 min 4 min 6 min 8 min 6 min   |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Contact CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSXI cross-contact (1 technicism)-28 DS1s 4. Flace Loopback Test Plog (1 technicism)-28 DS1s 5. Complete Conformance Testing (1 technicism)-28 DS1s 6. Fost work sement complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work remeat with CCT-I (1 technicism)-28 DS1s 7. Complete SDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Complete DSXI cross-contect (1 technicism) 3. Complete DSXI cross-contect (1 technicism) 4. Flace Loopback Test Plog (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Post work remeat complete in WFA-DI (1 technicism) 7. Complete Work remeat with CCT-I (1 technicism) MI-0-LOW SIDE (1 OFFICE) 1. Analyze Order (1 technicism)-24 DS0s 2. Complete DS0 cross-contect (1 technicism)-24 DS0s 4. Complete Line/Drop testing (1 technicism)-24 DS0s 5. From work remeat complete in WFA-DI (1 technicism)-24 DS0s 5. From work remeat complete in WFA-DI (1 technicism)-24 DS0s  | 3 min 5 min 2 min 15 min 15 min 2 min 3 min 2 min 3 min 2 min 3 min 4 min 2 min 5 min 5 min 5 min 4 min 2 min 5 min 4 min 2 min 5 min 4 min 2 min 5 min 2 min 5 min 2 min 5 min 2 min 5 min 6 min 2 min 2 min 2 min 3 min 4 min 2 min 3 min 4 min 2 min 3 min 4 min 6 min 2 min  |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Connect CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSXI cross-connect (1 technicism)-28 DS1s 4. Flace Loopback Test Plog (1 technicism)-28 DS1s 5. Complete DSXI cross-connect (1 technicism)-28 DS1s 6. Fost work semest complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work remeat with CCT-I (1 technicism)-28 DS1s 7. Complete work remeat with CCT-I (1 technicism)-28 DS1s 8. Analyze Order (1 technicism) 9. Complete DSXI cross-connect (1 technicism) 9. Complete Conformance Testing (1 technicism) 9. Complete Conformance Testing (1 technicism) 9. Complete work removal complete in WFA-DI (1 technicism) 9. Complete Work removal complete (1 technicism)-24 DS0s 9. Complete DS0 cross-connect (1 technicism)-24 DS0s 9. Post work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Post work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Post work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Post work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Complete Line/Drop testing (1 technicism)-24 DS0s 9. Post work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Complete work removal with CCT-I (1 technicism)-24 DS0s   | 3 min  5 min  3 min  4 min  2 min  15 min  3 min  4 min  2 min  5 min  3 min  4 min  2 min  3 min  4 min  5 min   |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Connect CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSXI cross-connect (1 technicism)-28 DS1s 4. Flace Loopback Test Plug (1 technicism)-28 DS1s 5. Complete Conformance Testing (1 technicism)-28 DS1s 6. Post work remost complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work remost with CCT-I (1 technicism)-28 DS1s M1-0-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Complete DSXI cross-connect (1 technicism) 3. Complete DSXI cross-connect (1 technicism) 4. Flace Loopback Test Plug (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Post work remost complete in WFA-DI (1 technicism) 7. Complete work remost with CCT-I (1 technicism) M1-0-LOW SIDE (1 OFFICE) 1. Analyze Order (1 technicism)-24 DS0s 2. Centact CCT-I to work order (1 technicism)-24 DS0s 4. Complete Line/Drop testing (1 technicism)-24 DS0s 5. Funt work remost complete in WFA-DI (1 technicism)-24 DS0s 6. Complete Line/Drop testing (1 technicism)-24 DS0s 6. Complete work remost complete in WFA-DI (1 technicism)-24 DS0s DISCONNECT (ALL ORDERS)   | 3 min  5 min  3 min  4 min  2 min  15 min  3 min  4 min  2 min  3 min  4 min  2 min  3 min  4 min  2 min  5 min  3 min  4 min  5 min   |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Connect CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSXI cross-connect (1 technicism)-28 DS1s 4. Flace Loopback Test Plug (1 technicism)-28 DS1s 5. Complete Conformance Testing (1 technicism)-28 DS1s 6. Post work sement complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work rement with CCT-I (1 technicism)-28 DS1s M1-0-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Complete DSXI cross-connect (1 technicism) 3. Complete DSXI cross-connect (1 technicism) 4. Place Loopback Test Plug (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Post work removal complete in WFA-DI (1 technicism) 7. Complete work removal with CCT-I (1 technicism) 8. Post work removal with CCT-I (1 technicism) 9. Complete Cott-I to work order (1 technicism) 9. Complete SiDE (1 OFFICE) 1. Analyze Order (1 technicism)-24 DS0s 9. Complete Line/Drop testing (1 technicism)-24 DS0s 9. Complete Line/Drop testing (1 technicism)-24 DS0s 9. Fost work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Fost work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Fost work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Fost work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Post work removal with CCT-I (1 technicism)-24 DS0s 9. Post work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Remove Cross-connect 9. Remove Cross-connect 9. Remove Cross-connect 9. Remove Cross-connect | 3 min 5 min 2 min 15 min 2 min 3 min 4 min 5 min 2 min 3 min 4 min 5 min 3 min 4 min 5 min 6 min 2 min 3 min 6 min 2 min 6 min 2 min 6 min 7 min 8 min 9 min |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Connect CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSXI cross-connect (1 technicism)-28 DS1s 4. Flace Loopback Test Plug (1 technicism)-28 DS1s 5. Complete Conformance Testing (1 technicism)-28 DS1s 6. Post work remost complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work remost with CCT-I (1 technicism)-28 DS1s M1-0-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Complete DSXI cross-connect (1 technicism) 3. Complete DSXI cross-connect (1 technicism) 4. Flace Loopback Test Plug (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Post work remost complete in WFA-DI (1 technicism) 7. Complete work remost with CCT-I (1 technicism) M1-0-LOW SIDE (1 OFFICE) 1. Analyze Order (1 technicism)-24 DS0s 2. Centact CCT-I to work order (1 technicism)-24 DS0s 4. Complete Line/Drop testing (1 technicism)-24 DS0s 5. Funt work remost complete in WFA-DI (1 technicism)-24 DS0s 6. Complete Line/Drop testing (1 technicism)-24 DS0s 6. Complete work remost complete in WFA-DI (1 technicism)-24 DS0s DISCONNECT (ALL ORDERS)   | 3 min  5 min  3 min  4 min  2 min  15 min  3 min  4 min  2 min  3 min  4 min  5 min  3 min  4 min  2 min  5 min  3 min  4 min  2 min  5 min  3 min  4 min  2 min  5 min  3 min  4 min  5 min  5 min  3 min  |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Connect CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSXI cross-connect (1 technicism)-28 DS1s 4. Flace Loopback Test Plug (1 technicism)-28 DS1s 5. Complete Conformance Testing (1 technicism)-28 DS1s 6. Post work sement complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work rement with CCT-I (1 technicism)-28 DS1s M1-0-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Complete DSXI cross-connect (1 technicism) 3. Complete DSXI cross-connect (1 technicism) 4. Place Loopback Test Plug (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Post work removal complete in WFA-DI (1 technicism) 7. Complete work removal with CCT-I (1 technicism) 8. Post work removal with CCT-I (1 technicism) 9. Complete Cott-I to work order (1 technicism) 9. Complete SiDE (1 OFFICE) 1. Analyze Order (1 technicism)-24 DS0s 9. Complete Line/Drop testing (1 technicism)-24 DS0s 9. Complete Line/Drop testing (1 technicism)-24 DS0s 9. Fost work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Fost work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Fost work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Fost work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Post work removal with CCT-I (1 technicism)-24 DS0s 9. Post work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Remove Cross-connect 9. Remove Cross-connect 9. Remove Cross-connect 9. Remove Cross-connect | 3 min  5 min  3 min  4 min  2 min  15 min  3 min  4 min  2 min  5 min  3 min  4 min  2 min  3 min  4 min  5 min  3 min  |
| 1. Analyze Order (1 technicism)-28 DS1s 2. Connect CCT-1 to work order (1 technicism)-28 DS1s 3. Complete DSXI cross-connect (1 technicism)-28 DS1s 4. Flace Loopback Test Plug (1 technicism)-28 DS1s 5. Complete Conformance Testing (1 technicism)-28 DS1s 6. Post work sement complete in WFA-DI (1 technicism)-28 DS1s 7. Complete work rement with CCT-I (1 technicism)-28 DS1s M1-0-HIGH SIDE (1 OFFICE) 1. Analyze Order (1 technicism) 2. Complete DSXI cross-connect (1 technicism) 3. Complete DSXI cross-connect (1 technicism) 4. Place Loopback Test Plug (1 technicism) 5. Complete Conformance Testing (1 technicism) 6. Post work removal complete in WFA-DI (1 technicism) 7. Complete work removal with CCT-I (1 technicism) 8. Post work removal with CCT-I (1 technicism) 9. Complete Cott-I to work order (1 technicism) 9. Complete SiDE (1 OFFICE) 1. Analyze Order (1 technicism)-24 DS0s 9. Complete Line/Drop testing (1 technicism)-24 DS0s 9. Complete Line/Drop testing (1 technicism)-24 DS0s 9. Fost work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Fost work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Fost work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Fost work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Post work removal with CCT-I (1 technicism)-24 DS0s 9. Post work removal complete in WFA-DI (1 technicism)-24 DS0s 9. Remove Cross-connect 9. Remove Cross-connect 9. Remove Cross-connect 9. Remove Cross-connect | 3 min  5 min  3 min  4 min  2 min  15 min  3 min  4 min  2 min  5 min  3 min  4 min  2 min  3 min  4 min  5 min  3 min  |

# TAB 9

| FOR ALL UNBUNDLED ELEMENT                           |       |
|---|-------|
| ORDERS THAT REQUIRE DLISPATCH                       |       |
| i. Screen Order .                                   | 2     |
|   | 2 mm  |
| <ol> <li>Load work request to Terimician</li> </ol> | 5 min |
| 3 Cioseout work request with Technician             | 3 जान |
|   |       |
|   |       |
|   |       |
|   |       |
|   |       |
|   |       |
|   |       |
|   |       |
|   | 1     |
|   |       |
|   |       |
| SOURCE:   |       |
| Carolyn Mills - Staff Manager                       |       |
| Apr-00  |       |

#### LRAC PROCESS DETAIL

#### Install

1. Screen order.

The LRAC Load Specialist reviews the work request for any special instructions on the field dispute.

2. Load work request to DS I&M Technician.

The LRAC Load Specialist loads the work request to the DS I&M. Technician in WFA-DO.

3. Close work request with DS I&M Technician.

The Load Specialist receives a call from the DS I&M Technicism.

The Load Specialist topdates WFA-DO with any persinest information about the order completion.

# **TAB 10**

# INSTALLATION

Performs necessary filed work on new orders and changes to existing service including:

- Travel to customer premises
- Cross-connect activity at feeder plant to distribution plant field locations
- Customer premises work activities to connect circuit at the network interface
- Circuit testing as required
- Order completion with LRAC

## TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

DATE:

05-06-99

TO:

Dan Deffley

FROM:

Diane Kinkel

Designed Services Staff Manager

SUBJECT: Interc

Interconnection, Unbundled Network Elements

A review of the work activities required for processing service orders for Unbundled Network Elements and Local Interconnection Service has been completed as of May 1999.

Work groups included for this review include:

Central Office Technician

Load Resource Administration Center

Installation and Maintenance Technician

Customer Communication Technician – Implementor.

The attached sheets contain the work activities, work times, and probability of occurrence percentage required for the provisioning of Unbundled Loop Elements. A Process Description that details the work activities necessary to perform these work activities is also attached.

A group of Subject Matter Experts provided input to the data provided here. Their job titles include coach, Central Office Staff Manager, and, Designed Services Staff Managers, Designer, Central Office Technician, and Implementor. The persons providing input are recognized experts in regards to these processes by virtue of experience. The experience levels of the experts that provided input to this time study range from 5 to 20 years.

#### **Kev Assumptions:**

- The times documented here are average times.
- ◆ They do not reflect problems encountered during the processing of the service order.
- They do not include supplements to the initial order.
- · These estimates do not include any maintenance or repair time.
- This process is forward-looking to year-end 1999.

If you have any questions concerning the attached data, please call me on 303-896-1672.

| INSTALLER  | I&M Technician Work | Ds1 or DS3<br>Entrance Facility |
|--|---------------------|---------------------------------|
|  | Activities          |                                 |
| Travel to end user premises  |                     | 21 minutes                      |
| Contact CCT-I to work order Complete jumper activity                       |                     | 3 minutes<br>4 minutes          |
| Place Loopback Test Plug Test with Implementor *                           |                     | 2 minutes<br>15 minutes         |
| Remove Loopback Test Plug<br>Contact Load Specialist to close work request | •                   | 2 minutes<br>3 minutes          |
|  |                     |                                 |

<sup>\*</sup> The installer will test with the Implementor 50% of the time. 50% of the time a Network Interface Unit is placed with no test participation required.

# TAB 11

# **IMPLEMENTOR**

Has overall control responsibility for provisioning, maintaining, coordination and testing of designed services.

Contacts other centers/technicians for the coordinated effort to complete service order activity requirements.

Tests with central office, field installation personnel as necessary. Provides test results to customer.

Notify customer of work completed

Complete order in required systems (Work Force Administration)

### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

|  | COSTELEMENT  | TICOST ELEME                                  | VT.                     |
|--|--|---|-------------------------|
|  | DS1  | DS3   | <del>`</del>            |
| LIS  |  | ENTRANCE                                      |                         |
|  | FACILITY   |   |                         |
| IMPLEMENTOR  | ·VOIDII  | FACILITY                                      |                         |
|  | per order  | per order                                     |                         |
| WORK ACTIVITY  | minutes  | minutes                                       | <del></del>             |
|  |  |   |                         |
| SCREEN WFA FOR CIRCUIT   | 10   | 10  |                         |
| VERIFY LNO COMPLETION  | 10   |   |                         |
| TEST CIRCUIT   | 35   | 10  |                         |
| NOTIFY CUSTOMER  | 5  | 35  |                         |
| COMPLETE CIRCUIT IN WFA/C  |  | 5   |                         |
|  | 10   | 10  |                         |
|  |  |   |                         |
|  |  |   |                         |
|  |  |   | <del> </del>            |
| DISCONNECT   |  |   |                         |
|  |  |   |                         |
| SCREEN WFA FOR CIRCUIT   | 5  | 5   |                         |
| CONTACT CUSTOMER   | 5  |   |                         |
| COMPLETE CIRCUIT IN WEAK   | 5  | 5   |                         |
|  |  | 5   |                         |
|  |  |   |                         |
|  |  |   |                         |
|  | 1 ;  |   |                         |
| OTE: The times documented above are<br>They do not reflect times spent for<br>They do not reflect problems with  | or supplement to the   |   |                         |
| They do not reflect times spent for they do not reflect problems with they do not reflect problems or they do not reflect problems or they do not reflect problems.  | or supplement to the or the order or redesign  | n issues.                                     | he customer             |
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### LIS-MUX

|  | COST ELEMENT           |                 |                 |  |  |
|--|------------------------|-----------------|-----------------|--|--|
|  | MUX                    | MUX             |                 |  |  |
| IMPLEMENTOR                                | DS1 - DS0              | DS3- DS1        |                 |  |  |
|  |                        |                 | <u>'</u>        |  |  |
|  |                        |                 |                 |  |  |
| WORK ACTIVITY                              | minutes                | minutes         |                 |  |  |
| INSTALL                                    | ` !                    |                 | <del>}</del>    |  |  |
| SCREEN WFA FOR CIRCUIT                     | 10                     | 10              |                 |  |  |
| VERIFY LNO COMPLETION                      | 10                     | 10              |                 |  |  |
| NOTIFY CUSTOMER                            | 1                      | 1               |                 |  |  |
| COMPLETE CIRCUIT IN WFA/C                  | 10                     | 10              |                 |  |  |
|  | i                      |                 |                 |  |  |
|  |                        |                 |                 |  |  |
|  |                        |                 |                 |  |  |
| •  |                        |                 |                 |  |  |
| DISCONNECT                                 |                        |                 |                 |  |  |
| SCREEN WFA FOR CIRCUIT                     | 5                      | 5               |                 |  |  |
| CONTACT CUSTOMER                           | 1                      | 1               |                 |  |  |
| COMPLETE CIRCUIT IN WFA/C                  | 5                      | 5               |                 |  |  |
|  |                        |                 |                 |  |  |
|  | 1                      |                 |                 |  |  |
|  | ·                      | :               |                 |  |  |
|  | :                      | :               | i .             |  |  |
| NOTE: The times documented above are       | average estimates.     | 1               | : :             |  |  |
| They do not reflect times spent fo         | r supplement to the    | order.          |                 |  |  |
| They do not reflect problems with          | the order or redesi    | gn issues.      |                 |  |  |
| They do not reflect problems or to         | rouble at test, with s | systems or with | the customer.   |  |  |
| All times are based on a perfect s         |                        |                 |                 |  |  |
| These times are forward-looking,           |                        |                 |                 |  |  |
| . Attached are the functions associ        | ated with the steps    | performed by t  | he impiementor. |  |  |
|  | ,                      | :               |                 |  |  |
|  |                        |                 | :               |  |  |
|  |                        |                 | . :             |  |  |
|  | :                      |                 |                 |  |  |
|  |                        |                 |                 |  |  |
|  |                        |                 |                 |  |  |
|  |                        |                 |                 |  |  |
|  |                        |                 |                 |  |  |
| SOURCE:                                    |                        |                 |                 |  |  |
| SOURCE:<br>LINDA HENDRICKS, IMPLEMENTOR CE | NTER STAFF             |                 |                 |  |  |
|  | NTER STAFF             |                 |                 |  |  |
|  | NTER STAFF             |                 |                 |  |  |

LIS 1 ... DS1-DS3

|   |                   | 1                                     |                                  |                     |                |                     |                |                 |
|---|-------------------|---------------------------------------|----------------------------------|---------------------|----------------|---------------------|----------------|-----------------|
|   |                   | ELEMENT                               |                                  |                     |                | 1                   | T              | 1               |
| • • • · · · · · · · · · · · · · · · · ·                           | PER TRUNK         | K PER ORDER                           | ·   ··                           |                     |                |                     |                |                 |
| LIS TRUNKS  | DIGITAL           | SWITCHES                              |                                  |                     |                | 1                   |                | 1 .             |
| DS1 OR DS3 INTERFACE  | ji i              | ËÀ                                    |                                  |                     |                |                     |                | 1.              |
| IMPLEMENTOR   | per trunt         | k per order                           | 1 1                              | .                   |                | 1                   | 1.             | 1 .             |
| WORK ACTIVITY   |                   | nutos                                 |                                  |                     |                |                     |                | i               |
| INSTALL   | :::::             | 1                                     |                                  | I.                  |                |                     |                | 1               |
| SCREEN WEA FOR CIRCUIT  | 10                | 0.4                                   | -                                |                     |                |                     |                |                 |
| VERIFY LNO COMPLETION   | 10                | • • • •                               |                                  |                     |                |                     | 1              | ···             |
| Set DS1 Trans Opts in Switch /Add TG members                      | ]                 | 0.4                                   |                                  |                     |                |                     | 1              | 1               |
| TEST CIDELITY Trust Comment                                       | 30                | , iia                                 |                                  | ı                   |                |                     | 1              | 1               |
| TEST CIRCUIT/ Trunk Group Mem.                                    | 25                | 1                                     | Cost study assumes               | DS1 f.F pr          | ovisioned      | from POP i          | l              | 0               |
| NOTIFY CUSTOMER   | . 5               | na                                    | DS1 cost recovered in            | EF. II OS:          | IFF DS1        | Troppopular         | o dila dilice. | One order       |
| COMPLETE CIRCUIT IN WEAK  | 10                | 0.4                                   | Study assume DS1 to              | ansport rem         | udlage of      | Eli Intertere       | f spread actor | ss trunks.<br>1 |
| This time reflects putting in 24 members & TClCs on a T1 facility | and solling the o | ptlans                                |                                  | -::-!:-::           | rimiaa u       | i meriace,          | ĺ              | 1               |
| FACILITY ORDER (per order) *                                      | 70                | " na                                  | (') Facility order wor           | . I.<br>kartivitios |                |                     |                | l               |
|   |                   |                                       | INWARD                           |                     | inutes         | •                   | ł              |                 |
|   |                   |                                       | SCREEN WEAFOR CH                 |                     | 10             |                     |                | ł               |
|   |                   | •                                     | VERIFY LNO COMPLET               |                     | 10             |                     |                | i.              |
| <u>DISCONNI:CT</u>  | ,                 | • • •                                 | TEST CIRCUIT                     |                     | 35             |                     |                |                 |
| lemove TCICS & TG Members in Switch                               | 20                | na                                    | NOTIFY CUSTOMER                  |                     | 5              |                     |                |                 |
| SCREEN WEAFOR CIRCUIT   | 5                 | na                                    | COMPLETE CKT IN WE               | 400                 |                |                     | ]              |                 |
| CONTACT CUSTOMER  | 5                 | กล                                    | lotal                            |                     | 10<br>70       |                     |                |                 |
| COMPLETE CIRCUIT IN WITAC   | 5                 | na                                    | ·                                | [                   | <i>'</i> 0 . ] |                     |                |                 |
| OSI FACILITY ORDER (per order)                                    | 15                | na na                                 | Discourance                      |                     | ·              | · · · · - · · · · · |                |                 |
|   |                   |                                       | DISCONNECT<br>SCREEN WFA FOR CIR |                     | 5              |                     |                |                 |
|   | · · · ·           |                                       | CONTACT CUSTOMER                 | LUII                | 5              |                     |                |                 |
|   |                   |                                       | COMPLETE CKT IN WE               |                     | 3              |                     |                |                 |
| NOTE: The times documented above are average                      | estimates.        |                                       | lotal                            | ,                   | 0              |                     |                |                 |
| They do not reflect times spent for supple                        | oment to the o    | order.                                | totar                            |                     | 15             |                     |                |                 |
| They do not reflect problems with the ord                         | er or redesion    | lecune                                | • • • • • • • • • •              | .   .               | ŀ              |                     |                |                 |
| They do not reflect translations or progra                        | minling neoble    | itan                                  |                                  | ····   .            |                | · · · · · ·         |                |                 |
| They do not reflect problems or trouble w                         | ith systems of    | r with the quet                       | omer                             |                     | - 1            |                     | ı              |                 |
| All times are based on a perfect service o                        | order and no n    | roblame anno                          | untared at 1 - 1 0 1             |                     |                |                     |                |                 |
| THUS HIT IS ALL IST WATER TOOKING. TA SWIF                        | ch tyna is nat    | rentagontad k                         | those thmes                      | ::::P.              |                |                     |                |                 |
| ringviou ato the functions association wa                         | n ino cione na    | Marmad bu H.                          | - II                             | - 1                 |                |                     | [              |                 |
| Attached are the functions associated wil                         | h the Feature     | Group produc                          | •                                |                     |                |                     |                |                 |
| Both are needed (when applicable) to per                          | form tasks.       | THE RIVERS                            | <b>:</b> :                       |                     |                |                     |                |                 |
|   |                   | · · · · · · · · · · · · · · · · · · · |                                  |                     | . ]            |                     |                |                 |
| OURCE:  |                   |                                       |                                  |                     |                |                     |                |                 |
| IARLENE MIRIAN - STAFF MANAGER                                    |                   |                                       |                                  |                     |                |                     | ,              |                 |
| ATIE 03/09/01   | •••               |                                       |                                  |                     | ł              |                     |                |                 |

#### Install

#### 1. Screen WFA-C for Order accuracy.

The CCT-I accesses the WFA-C OSSLST (Order List) screen to examine and prioritize order load by Critical Date.

The CCT-I accesses the WORD document on the OWDDOC (WORD Document) screen to examine work request.

The CCT-I locates the installation option of the work request on the WORD document and determines if additional work steps must be created for the Central Office Technician (i.e., DD work activities).

If the order request is for a Coordinated Installation Option, the CCT-I determines the "Appointment Time".

If No "Appointment Time" has been specified, the CCT-I contacts the Service Delivery Coordinator (SDC) via telephone to obtain an "Appointment Time".

Once the "Appointment Time" has been determined, the CCT-I builds the Central Office DD work request on the WFA-C OSSCWL (Circuit Work Location) screen specifying the requested "Appointment Time".

The CCT-I updates the WFA-DO DOSOI (Service Order Installation) screen with the "Appointment Time".

The CCT-I notifies the CORAC and LRAC of the Coordinated work request via a telephone call.

The CCT-I examines the Circuit Details portion of the WORD document for circuit design complements.

The CCT-I sets any other pertinent Calendar (CAL) events on the WFA-C OSSLST (Order List) screen.

The CCT-I complete the SCR Critical Date on the WFA-C OSSOI (Order Installation) screen.

#### 2. Verify LNO completion.

The CCT-I verifies the LNO (Central Office and/or I&M technician has completed the physical work required on the work request for DVA and DD. Typically, DVA will post automatically at the item level once all of the DVA dates have been met at the Circuit

If CWLs have not been completed by the DVA date, the CCT-I notifies the Central Office to complete the CWLs.

If the physical work earnot be completed, the CCT-I posts a jeopardy against the DVA date. The current Designed Services Jeopardy process is then followed.

If a Coordinated Cut has been requested, the CCT-I will call the Co-Provider to receive and "OK" to begin work.

If the work cannot be completed on DD because the Co-Provider is not ready, the CCT-I places a "C" code jeopardy against the order. The current Designed Services Jeopardy process is then followed.

If the work cannot be completed on DD because of a USW problem, the CCT-I will post the appropriate jeopardy code against the DD. The current Designed Services Jeopardy process is then followed.

The CCT-I makes the appropriate remark emries into the WFA-C OSSLOG (Work Remest Log).

#### 3A. Montitor Performance Testing.

The CCT-I monitors and records the test results on the WFA-C OSSCN (Circuit Notes) screen. These test results are obtained by the Central Office technician and the DS I&M technician testing the newly provisioned circuit. The tests performed are listed i

#### 3B. Complete Performance Testing.

In cases where the CCT-I is able to test, the testing is performed with the DS I&M Technician. The CCT-I records the test results on the WFA-C OSSCN (Circuit Notes) screen. The tests performed are fisted in the Test Requirement document attached.

#### 4. Coordinate Cooperative Testing

The CCT-I acts as the sentral contact between the DS I&M recimician and the Co-Provider.

The CCT-I notes the tests performed and enters the result information on the WFA-C OSSCN (Circuit Notes) screen.

The CCT-I records any pertinent remarks on the WFA-C OSSLOG (Work Request Log).

#### 5. Notify Co-Provider of order completion.

The CCT-I notifies the Co-Provider that the work request is completed.

The CCT-I informs the Co-Provider of any additional charges that will apply.

The CCT-I provides required test result information to the Co-Provider.

The CCT-I records the Co-Provider order completion contact information on the WFA-C OSSLOG (Work Request Log).

#### 6. Post order complete in WFA-C.

The CCT-I posts the Due Date complete on the WFA-C OSSOI (Order installation) screen.

The CCT-I completes any additional remarks on the WFA-C OSSLOG (Work Request Log).

The CCT-I completes any required electronic billing or rebates in WFA-C.

#### Disconnect

#### 1. Screen WFA-C for Order accuracy.

Screen OSSLST

Verify information on WORD document

Refer WORD document back to Designer if not accurate

Check for Co-Provider work locations involved on order

Enter note if Co-Provider involved on OSSCN

Check for remote test capability and hand-off to Designer or LNO if appropriate

Check to see if item is loaded in WFA-DI/DO

Assign Critical Dates

Enter name and number on DOISWR

#### 2. Contact Co-Provider

Notify customer work is complete

Add pertinent notes to OSSCN screen

If customer is not available, erner the following information on the OSSOI2 screen

No customer contact

Telephone Number called

#### 3. Complete circuit in WFA-C

Check WFA-C OSSLST for critical events

Check DISP for PRE status

Jeopardize and escalate to accommodate customer's need

Add additional billing charges

Complete order in WFA-C

Perform required tests

Contact Designer if required

# **TAB 12**

# COMPLEX TRANSLATIONS NROC (Network Reliability Operations Center)

Complex translations has the responsibility for:

- Administrating switching machines
- Validating update data, line equipment, central office translations, traffic patterns usage
- Coordinates monitoring machine growth jobs

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

November 6, 1997

Memo To: Dan Deffley

From:

Deb Dory

RE: Complex Translations Time Estimates for LIS Tranking

High Level Overview

LIS tranking intercomeers U.S. WEST and offices and tendents to other local service provider. These trunks are accessed by U.S. WEST subscribers by disking a NPA-NXX that is assigned to the other local service providers. The end office/random switch analyzes the digits disied, locates the route index for the NXX, analyzes the route index for runk group, sitemate routing information, and digits to be outpulsed. The switch then searches the trunk group for an idie trunk and sends the call to the other local service

In a basic configuration between U.S. WEST and another local service provider, there is a trunk group to the local random and the access random. Direct trunk groups to end offices may be added for exchange of local calls if needed. The cost estimates address the end office direct trunk group or the tandem trunk group, which ever is the case. If the trunk group being installed is an end office direct group that the NPA-NXX work in only in that

Complex Translations receives information to perform LIS trunking work via the ASR/TQ from the local service provider and via the NPA/NXX Coordination Worksheet

Today, to my knowledge, we do not charge other service providers to open their NXXs in our switches. This should be checked out for sure with the product team, however it is a major component of the costs associated with activating a new trunk group to another locai service provider.

Trunk Group Translations

Complex Translations is responsible for building trunk group level translations. This work is the same no maner what the size of the mank group. Trunk group level transiations includes but is not limited to:

Signaling Type used, MF or SS7 Humi Sequence, high to low, most idle, etc Screening and Rowing of incoming calls

Gizre Resolution Data Rate Capabilities ٠٠٠٠ حت

Complex translations in not involved in trunking activity adding trunks to existing trunk ತಾದಾ?

Subject: questions

Date: Mon. 05 Mar 2001 09:57:02 -0700
From: "Debra Doty" <dkdoty@uswest.com>
Organization: U S WEST Communications. Inc.

To: deoriat@uswest.com

Assign Trunk Group-The translator receives a call from a service delivery coordinator requesting a trunk group number. Translator reviews the ASR, determines the trunk group type, transmission type, clarifies any unknowns, and gives the SDC a trunk group number and transmission class. The translator then logs the event for the receipt of the finished ASR.

Analyze ASR/TQ - Upon receipt of the ASR/TQ, the translator reviews the document to determine how to build the trunk group, accuracy, and completeness, such as hunting sequence, glare control, alternate routing, signaling, NPA-NXXs, trunk group type, etc. If there are any questions, the translators gets back to the SDC for clarification or corrections.

Build trunk group - using the complete and accurate ASR/TQ, the translator inputs into translations all the characteristics of the new trunk group using the trunk group number assigned above and the information from the ASR.

Assign Route index - Again using the ASR/TQ, the translator assigns and build a route index using the new trunk group built above. A route index has the alternate routing information and the digits outpulsed information for the new trunk group.

Perform Test Call - the translator access the remote office test line for the office being tested. The translator makes sure the test line has the correct class of service assigned. The Translator dials the test number provided, listened for the results, makes any corrections necessary if test not completed satisfactorily.

Complete Work Item - Translators document that work is complete in a tracking system called PROTECT. The completion indicates that the work is done and there is a separate item to indicate the test call was completed.

Debra Doty < dkdoty@uswest.com >
Technical Support Manager
NROC
Network Complex Services

#### TRANSLATIONS

| SWITCHED ACCESS - CIC, NEW ACTIVATION GROUP - TRANSLATIONS   | N TIME ESTIMATES | NOTES                    |
|--|------------------|--------------------------|
| DEB DOTY - STAFF MANAGER TRUNK GROUP(s)  |                  |                          |
| Assign TGN (Trunk Group Number)  | 10 mln           | per trunk group basis    |
| Analyze ASR/TQ for trunking Items  | 10 mln           | per trunk group basts    |
| Build new Trunk Group which includes the   | 20 mln           | per trunk group basis    |
| following trunk group level data: -signaling type -hunt type -glare resolution type -incoming screening -CIC | •                |                          |
| ROUTE INDEX(ES)  |                  |                          |
| Assign RI  | 10 mln           | average 2 ri/frunk group |
| Analyze ASR/TQ for CIC routing   | 10 mln           | per trunk group basis    |
| Build new Route Index which Includes:  | 10 min           | average 2 rl/trunk group |

It is estimated that now trunk groups are ordered 50% of the time on ASRs per SDC. There is no translations work necessary for trunk group augment orders.

-alternate rouling, if applicable

### Rouse index

Frunk Groups are accessed by rouse indexes. Rouse indexes define rousing information for the call such as how many digits to outputse, what is the work group to use, and if all the runk are busy, what is the next rouse to take.

# **TAB 13**

### SERVICE DELIVERY COORDINATOR

Wholesale markets – Service Delivery serve as the primary order provisioning contact for CLECs, Interexchange Carriers and Wireless customers who purchase complex wholesale and retail products and services (i.e., Private Line, Feature Group, LIS Trunking, Centrex Resale, Number Portability) from Qwest.

The center teams provide end-to-end order coordination from request through order completion and serve as the primary liaison for the customer for all downstream organizations.

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems
  encountered during the work activities to process the service order. System
  downtime or times spent resolving internal order flow procedures are examples
  of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

Subject: Cost Study

Date: Tue, 21 May 2002 10:37:36 -0600 From: "Cindy Kalakis" <ckalaki@qwest.com>

To: ddeffle@uswest.com

CC: "Terri McQuiston" <tporter@notes.uswc.uswest.com>

- , "Linda Kae Olsen" <lxolsen@notes.uswc.uswest.com> , "Ronda Bergstedt" <rbergst@notes.uswc.uswest.com>
- , "Nancy Chapman" <nljohns@notes.uswc.uswest.com>

#### Dan:

Attached is the cost study spreadsheets for Private Line, Switched Access, LIS and UDIT.

I did a comparison on like functions and it seems we are in synch. There are some differences with the SHNS-SST because of the complexity of the product but I think we are either the same or justifiably different where appropriate between all the products.

If you need to get us all together again to discuss, let me know, I'll be happy to set up a meeting, or you can talk to the Product Process Specialist for each product if you have questions.

Thanks for your patience!

Cindy

(See attached file: SDC TIMES 2002-Summary-all prod.xls)

Name: SDC TIMES 2002-Summary-all

prod.xls

SDC TIMES 2002-Summary-all prod.xls Type: Microsoft Excel Worksheet

(application/vnd.ms-excel)

Encoding: base64

₹B 2002

| INSTALL                    |  | CROS JNNECT Time Estimates in Minutes |  |               |          |             | ,  |
|----------------------------|--|---------------------------------------|--|---------------|----------|-------------|--|
|                            |  |                                       | TRUNKS                                 |               |          |             | 1  |
| Item                       | Work Activity                                  | CONVERSION                            | COLLO                                  | INSTALL       | INSTALL  | Change      | Notes  |
|                            | Description                                    | FROM ACCESS                           | X/FER OF USE                           | FIRST         | EA ADDL  |             |  |
|                            |  |                                       | ······································ |               |          |             | This is the length of time it takes the SDC to pull up the |
|                            | ASR is received mechanically through           | }                                     |  |               | 1        |             | ASR by ASR number in EXACT.                                |
| Receive ASR mechanically   | EXACT on a mechanized work list                | ļ                                     | İ                                      | 1             | ļ        |             | *90% of ASRs are mechanical                                |
|                            |  |                                       |  |               |          |             | This is the time that it would take the SDC to manually    |
| -<br>H                     |  |                                       |  | Ì             |          |             | input the information on all the EXACT screens.            |
| Receive ASR via FAX*       | Input ASR into EXACT Manually                  |                                       |  | 10            |          |             | *10% of ASRs are manually faxed.                           |
|                            |  |                                       |  |               |          |             | Entries are made to add order number, circuit ID and       |
|                            |  |                                       |  | ľ             |          |             | intervals to the service order. The address is validated   |
| Validate ASR in            | Check for the accuracy of the ASR fields       |                                       |  |               |          |             | for accuracy. TheQwest EXACT screens are populate          |
| EXACT                      | and make sure all information is present       |                                       |  | 10            |          |             | in this step.  |
|                            | Check if customer is already established       |                                       |  |               |          |             |  |
| Check Credit Info/Security | with Qwest or if credit info is required.      |                                       |  | 2             |          |             | This is done 100% of the time.                             |
|                            | CheckRDLOC screen to validate who              |                                       |  |               |          |             |  |
| TIRKS                      | owns the collocation.                          |                                       |  | <u>3</u><br>5 |          |             |  |
| TIRKS                      | Check CBLP to validate if slot is spare        |                                       |  | 5             |          |             | This is to verify if CCEA/SCCEA entries are valid.         |
|                            | Check to make sure the address is premis       |                                       |  |               | 1        |             |  |
| Validate address in TAG    | valid  |                                       |  | 3             | <u>.</u> |             | This is done 100% of the time.                             |
|                            | Check the IABS TICR table to ensure            |                                       |  |               |          |             |  |
| Ĭ                          | rates are loaded for UDIT for customer's       |                                       |  | _             |          |             |  |
| Validate Contract Rates    | contract.                                      |                                       |  | 3             |          |             | This is done 100% of the time.                             |
| 1                          | Check to see if LOA is necessary. If LOA       |                                       |  |               |          |             |  |
| L                          | is needed is it on file or does the SDC        |                                       |  | _             | i        |             |  |
| Verify LOA*                | need to request a new one.                     |                                       |  | 5             |          |             | *65% of the time   |
| i                          | Make sure the circuit ID passed by the         |                                       |  | 1             | }        |             |  |
| •                          | customer is the same on our TAXI               | ı                                     |  |               | 1        |             |  |
| •                          | records. Verify the BAN provided by the        |                                       |  |               |          |             | ·  |
| l., .,                     | cUSTOMER is accurate and if not                |                                       |  | 1 _           |          |             |  |
| Verify TAXI                | accurate locate the correct BAN.               |                                       |  | 0             |          |             | Not required on new installations - only change orders.    |
| · ·                        | If the request is for co-provided service,     | ļ                                     |  |               | 1        |             |  |
| Ì                          | the SDC must make sure all entries are         |                                       |  | Į.            | 1        |             |  |
| County of a section        | on the ASR and negotiate dates with the        |                                       |  |               |          |             | OFO/ of the three was Discussed Bornella to                |
| Coordinate as ICO          | ICO. Handling calls from the IXC change to co- |                                       |  | 8             |          |             | 35% of the time. per Rhonda Bergstadt                      |
| 1                          | provider and from within the company           | Ĭ.                                    | <u> </u>                               | į.            | ĺ        |             |  |
| Intra Company Calle        | į.   |                                       | -                                      | 42            |          |             |  |
| Intra Company Calls        | regarding the ASR.                             |                                       | ]                                      | 13            |          |             | You can only do one of these on an ASR. You cannot         |
| 1                          |  | 1                                     | }                                      |               |          |             | mechanically and manually FOC the same ASR.                |
| Mechanical FOC*            | Mechanically confirm the ASR                   |                                       | 1                                      | 1             |          |             | *Mechanical FOC is 90%                                     |
| Wednamical FOC             | •  | i                                     | 1                                      | <b>!</b>      | 1        | Ι ,         | Wischanical FOC is 50%                                     |
|                            | INSTALL  | Time Estimates in Minutes             |  |               |          | <del></del> | 1  |
|                            | <u> </u>                                       | <u> </u>                              | TRUNKS COLLO INSTALL INSTALL C         |               |          | ļ. <u>.</u> | 4  |
| Item                       | Work Activity                                  | CONVERSION                            | COLLO                                  |               | 1        | Change      | Notes  |
|                            | Description                                    | FROM ACCESS                           | X/FER OF USE                           | FIRST         | EA ADDL  | <u>.l</u>   | ·  |

Intra-Company Calls

regarding the ASR

UDI' > CLLO

CROSS JONNECT You can only do one of these on an ASR. You cannot Manually confirm the ASR, print the mechanically and manually FOC the same ASR. screen and fax to the customer. Includes \*Mechanical FOC is 90% Manually FOC\* the FAX of the DLR. \*Manual FOC is 10% Send the order through the EXACT/TUF module in TIRKS and into IABS. Distribute the order to IABS This is a mechanical process within EXACT. Check for correct rate elements/USOCs and Check to make sure the service order is nonrecurring charges application. \*Order must be created from scratch Validate IABS Service order complete and accurate. 6 Send order to RSOLAR SOLAR or SOPAD. This is automatically done when Distribute Service Order to the SOPs the order is processed in IABS. 1 Check the SOAC database for 3 success messages. This means the order has logged into TIRKS. Check SOAC 3 Check WFA for completion of service Check WFA order. 3 Add any additional information from WFA that pertains to the service order. Make sure IABS service order is accurate for Check IABS Service Order 5 Validate required FIDs are present. Type the correct codes to complete the Complete IABS Service Order order in IABS. Type correct information into EXACT and Complete EXACT complete the ASR. Note EXACT Make any applicable notes in EXACT DISCONNECT Time Estimates in Minutes **TRUNKS Work Activity** DISC DISC Change Notes Item CONVERSION COLLO EA ADDL Description XIFER OF USE FIRST FROM ACCESS This is the length of time it takes the SDC to pull up the ASR is received mechanically through Receive ASR mechanically **EXACT** on a mechanized work list. ASR by ASR number in EXACT. This is the time that it would take the SDC to manually Receive ASR via FAX Input ASR into EXACT manually 10 input the information on all the EXACT screens. Make sure the circuit ID passed by the customer to be disconnected is the same on our TAXI records. Verify the BAN provided by the carrier is accurate and if Verify TAXI not accurate locate the correct BAN. 5 Make sure all necessary entries are Validate ASR in EXACT present on the ASR. 5 Verify all sub-circuits have been removed Validate in TIRKS if muxed circuit. 3 3 % probability. Handling calls from the IXC change to coprovider and from within the company

5

CINDY AKIS
STAFI AGER

UDI' COLLO

EB 2002

| STAFI ( AGER  |  | •            |                | •           |                 |                                       |  |
|---|--|--------------|----------------|-------------|-----------------|---------------------------------------|--|
|   |  | CRO          | OSS JONN       | ECT         |                 |                                       | *You can only do one of these on an ASR. You cannot mechanically and manually FOC the same ASR. *Mechanical FOC is 90% |
| Mechanical FOC* ,   | Mechanically confirm the ASR             |              |                | 1           |                 |                                       | •  |
|   | Manually confirm the ASR, print the      |              |                |             |                 |                                       |  |
| n n n   | screen and fax to the customer. Includes | ·            |                |             |                 |                                       |  |
| Manually FOC*   | the FAX of the DLR.                      |              |                | 6           | 1               |                                       |  |
|   | Send the order through the EXACT/TUF     |              |                |             |                 |                                       |  |
| Distribute the order to IABS  | module in TIRKS and into IABS.           |              |                | 1           |                 |                                       |  |
|   | Check to make sure the service order is  |              |                |             |                 |                                       |  |
| Validate IABS Service order   | complete and accurate.                   |              |                | 5           |                 |                                       | * Create order from scratch  |
|   | Send order to RSOLAR, SOLAR or           |              |                |             |                 |                                       |  |
| Distribute Service Order to   | SOPAD. This is automatically done when   |              |                |             | l i             |                                       |  |
| the SOPs  | the order is processed in IABS.          |              | ' <del>-</del> | 1           |                 |                                       |  |
|   | Check the SOAC database for 3 success    |              |                |             |                 |                                       |  |
|   | messages. This means the order has       |              |                |             |                 |                                       |  |
| Check SOAC  | logged into TIRKS.                       |              |                | 3           |                 |                                       |  |
|   | Check WFA for completion of service      |              |                |             | 1               |                                       |  |
| Check WFA   | order.                                   |              |                | 3           |                 |                                       |  |
| ĎΙ  | SCONNECT                                 |              | Time Estima    | ites in Min | utes            |                                       |  |
| <del>an arrang and a surger surger arranged and a surger surger and a surger surger surger and a surger surger surger</del> |  | TRUNKS       |                |             |                 |                                       | <u>.</u>   |
| Item  | Work Activity                            | CONVERSION   | COLLO          | DISC        | DISC            | Change                                | Notes  |
|   | Description                              | FROM ACCESS  | X/FER OF USE   | FIRST       | EA ADDL         |                                       |  |
|   | Add any additional information from WFA  |              |                |             |                 |                                       |  |
|   | that pertains to the service order. Make |              |                |             |                 |                                       |  |
|   | sure IABS service order is accurate for  |              |                |             |                 |                                       |  |
| Check IABS Service Order  | billing.                                 |              |                | 5           |                 |                                       |  |
|   | Type the correct codes to complete the   |              |                |             |                 |                                       |  |
| Complete IABS Service Order   | 1 77                                     |              | 1              | 1           |                 |                                       |  |
|   | Type correct information into EXACT and  | l            |                |             |                 |                                       |  |
| Complete EXACT  | complete the ASR.                        |              |                | 1           |                 |                                       |  |
| Note EXACT  | Make any applicable notes in EXACT       | <del> </del> | T              | 2           |                 |                                       |  |
| <u> </u>  |  |              | 1              |             | ·   · · · · · · | · · · · · · · · · · · · · · · · · · · |  |
|   |  |              |                |             |                 |                                       |  |

#### TASK DESCRIPTIONS

**Receive ASR** - If the ASR is received mechanically the SDC pulls up the ASR number from their work list and begins the next step of validating the ASR.

If the ASR is received manually via FAX the SDC must input all information from the paper copy on to the electronic screens.

Validate ASR in EXACT - Validating EXACT screens and reviewing the ASR for errors, adding additional information required for service order processing. Screens may include: ICORD, ICTRK, ICCKT, ICACI and ICNTS.

This includes verifying all information required to issue a 2 point or multiplexed circuit has been received.

Verify address in TAG - Check the Telephone Address GUI (TAG) system to verify that the address is premis valid. This eliminates problems downstream for assignments.

**Verify LOA** - Check to see if LOA is necessary. If LOA is needed is it on file or does the SDC need to request a new one.

Verify Taxi - Verify circuit ID passed by the customer matches TAXI. Verify any/all sub-circuits removed prior to disconnecting multiplexed circuit.

Coordinate as ILEC - Validate appropriate entries in EXACT for co-provided service, coordinate due dates with Exchange Carrier.

Check TIRKS - If the request is for a muxed facility the SDC must check TIRKS to determine the name for the circuit. With SST/SHNS verify SCID in TIRKS. If disconnecting multiplexed circuit verify all sub-circuits have been disconnected /moved.

Call LCON - All requests ending up at and end-user location must be called to verify wiring location and access information.

Verify EXACT - This includes verifying all information required to issue a 2 point or multiplexed circuit has been received.

Intra-Company Calls - Handling phone calls from the Interexchange carrier and calls from within the company to resolve issues surrounding the ASR and Service order.

When SST is multiplexed the SDC must also call the project manager for the circuit ID, SCID and due date.

Mechanical FOC - Firm Order Confirmation transaction completed in EXACT. Required on all ASRs sent mechanically. Mechanized customers receive automatically when transaction completed. Customers receive the DLR automatically from TIRKS.

Manually FOC - On non-electronic ASRs, after FOC task completed, the EXACT screen is printed and either faxed or mailed to the customer. The DLR is pulled from the printer and either faxed or mailed to the customer.

Order Distribution to IABS - Complete the command to send the order through the EXACT/TUF translation module and send to IABS.

Order Validation - Check the entries that were passed from EXACT/TUF and make sure they are correct.

Any additional information necessary to process the order.

Distribute the Service order to the SOPS - Complete the command to send the order to the Service order processors.

Check SOAC - The order must be checked in this database to make sure there are two successes, the order logging and the word logging portion must be successful for the order to then pass to TIRKS.

If MAP T FID present on order, verify order has NOT passed through SOAC.

Order Completion - Check WFA for any additional USOCs that must be added to the service order, note the completion date of the service order.

Complete IABS service order - Add any additional billing information to the service order and complete the service order.

**Complete EXACT - Make** appropriate entries in EXACT and complete ASR. Make appropriate entries in EXACT notes.

Conferred with:

Ronda Bergstedt - Process Specialist DS0, DS1 & SHARP/SHNS services

Nancy Chapman - Process Specialist DS3 & SST

Cindy Kalakis - Process Specialist UDIT

Linda Kae Olson - Process Specialist LIS

Terri McQuiston - Process Specialist - Switched

#### DESIGN

- Overall responsibility for RID (Record Issue Date) completion.
- Upholding Qwest design standards
- Assigns interoffice facilities and equipment at the circuit level
- Prepares and distributes WORD (Work Order Record Detail) including DLR (Design Layout Record).
- Ensures that TIRKS (Trunks Integrated Record Keeping System) designs meet the customer expectations.
- Escalates as necessary to ensure pre-RID dates are met.
- Advises Qwest sales forces or order originators of jeopardies as they are discovered.
- Maintains TIRKS database integrity by making design changes as they occur (i.e. cable pair changes, etc.)

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

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  encountered during the work activities to process the service order. System
  downtime or times spent resolving internal order flow procedures are examples
  of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

Subject: Clec to Clec Backup

Date: Thu, 18 Feb 1999 14:26:46 -0600

From: "Kathryn Platts" < kplatts@notes.mnet.uswest.com>

To: "Daniel V Deffley" <ddeffle@uswest.com>

Ei Dan,

In looking over the documentation for the Hicap Regular Design, we would have to follow the same steps as the Hicap Design, the only difference I can see is that Prepare Loop/Dri part would not have as extensive of information that a regular Hicap design would. We would still need to do the steps involved, but we would not really have a loop screen per say. There would be no loop involved, but we would need to do all the other steps like verify dri, lpadm screens, put notes on genote, put note lines on the cd screen about the cross connect itself.

I still think the times are ok and do not need to be changed at all. I do think we will need to readdress this after we have done our bit testing of the cross connect issue.

I hope this helps, if you need more let me know.

Linda will be in Fort Collins next week, so I'm not sure I can get that info to you as soon as I promised, that would be the tesing issues we talked about yesterday.

Also Kay did not come in today, I will talk to her Friday morning and call you after I have picked her brain about the Switch Port.

Kathy

|  | COST ELEMENT      |                  |                           |  |
|--|-------------------|------------------|---------------------------|--|
| DS1. DS3 CAPABLE LOOP                      | 1                 | *                |                           |  |
|  | DS1/DS3           | MANUAL           |                           |  |
|  | 1                 | PROS             |                           |  |
| DESIGN                                     | i                 |                  |                           |  |
| WORK ACTIVITY                              |                   |                  |                           |  |
| MNSTALL                                    | i                 |                  |                           |  |
| IORDER HANDLING/SCREENING                  | 5                 | S.20             |                           |  |
| GOC ORDER LOG                              | 6                 | 9.20             |                           |  |
| ENTER WA MASK                              | 5                 | 0.80             |                           |  |
| PREP LOGP INPUT/DR:                        | 15                | 6.75             |                           |  |
| CIRCUIT DESIGN                             | 30                | 7.00             |                           |  |
| DISTRIBUTE WORD DOC                        | 7                 | 0.90             |                           |  |
|  | 1                 |                  |                           |  |
|  | <u> </u>          |                  |                           |  |
| L<br>DISCONNECT                            | <del> </del>      |                  |                           |  |
| ORDER HANDLING/SCREENING                   | <u> </u>          | 0.10             |                           |  |
| GOC ORDER LOG                              | 5                 | 0.10             |                           |  |
| ENTER WA MASK                              | 5                 | 0.10             |                           |  |
| DISCONNECT CIRCUIT                         | 5                 | 0.10             |                           |  |
| DISTRIBUTE WORD DOC                        | 2                 | 0.10             |                           |  |
| i  | !                 |                  |                           |  |
|  |                   | T                | •                         |  |
|  |                   |                  |                           |  |
|  |                   |                  |                           |  |
| NOTE.                                      |                   |                  |                           |  |
| The time estimates and probability perc    |                   |                  |                           |  |
| These work activities are required to pro- | cess a service r  | ecuest that fall | s out of the TIRKS system |  |
| for mechanized design.                     |                   |                  |                           |  |
| These are average times. The times as      | sume the techni   | czn wil not er   | ecurrer problems during . |  |
| the manual process necessary to proces     | ss the service re | cuest.           |                           |  |
|  |                   |                  |                           |  |
|  |                   |                  |                           |  |
| :  |                   |                  |                           |  |
| <u> </u>                                   |                   |                  |                           |  |
| SOURCE.                                    |                   |                  |                           |  |
| KATHY PLATTS                               |                   |                  |                           |  |
| IDESIGN CENTER STAFF                       |                   |                  |                           |  |
| 1/99                                       |                   |                  |                           |  |
| MARCH 2000 Per Kathy Plats, these          |                   | ,                |                           |  |
| times and propabilities are appropriate    |                   |                  |                           |  |
| וסיו מבים ומכן בחב הפפפר בעםומסם           |                   |                  | •                         |  |
| order processing.                          |                   |                  |                           |  |

#### PRIVATE LINE SERVICES

| : 27-55·                                    |                   |              |                                       |              |
|---|-------------------|--------------|---------------------------------------|--------------|
| SERVICE DELIVERY DESIGN ANALO               | G PROCESS         |              |                                       | 5            |
| Work Activity Describers :                  |                   |              |                                       |              |
|   |                   |              |                                       |              |
| DASTALL                                     |                   |              |                                       | !            |
|   | •                 |              | •                                     |              |
| 1. Order Handling/Screening                 |                   | •            | :                                     |              |
| Check for Ottoer Accuracy :                 | •                 | :            |                                       |              |
| Check Service Order Analysis and Control    | /50: m 6- =       |              |                                       |              |
|   | ושריין זמ א       | enes ir Maii | ai Assessance (                       | RMA'S)       |
| Verty A & Z Location in RDLOC               | <u> </u>          | ·            | ·                                     | ī            |
| Access Trans megrated Record Keeping        | : System (Tirk)   | حيدي جد (2)  |                                       | }            |
| Check Order for Coordination Time (if not   | arazze)           |              | ·                                     |              |
| Call Order Originator to ask for Courginate |                   | <del></del>  |                                       |              |
|   |                   | ·            | ·                                     | 1            |
|   |                   |              |                                       |              |
| 2. Generic Order Comrol (GCC) Order         | Locome            | :            |                                       | ·            |
| ACCESS TIRKS (Work AUDICEZZOOD (WA).        | PCFLOW GO         | NOTE:        | :                                     |              |
|   |                   |              | <del> </del>                          | i            |
| Verty Citier II. Senate Processor           |                   | :<br>        | <u>:</u>                              |              |
| Screen and Log GCC                          | <u>:</u> .        | :            |                                       | :            |
| Put Remand in GONOTE Order Manually         | LOCKE             | ;            |                                       |              |
| :   | :                 | :            | :                                     |              |
| Total Min Mark                              | <del></del>       | <del></del>  | <u> </u>                              |              |
| II. Enter WA Mask                           | <u>:</u>          | <u>:</u>     |                                       |              |
| Check Avanabity of Facilities in TIRKS      | :                 | •            |                                       | }            |
| AGC Recures Data to WA Screen               | :                 |              | ·                                     | <del></del>  |
| Verty tra: WA Screen Matthes Service Di     | <del></del>       |              | <del></del>                           |              |
|   | ·                 | <del>.</del> | <del></del>                           |              |
| Manualy rout WA Screen :                    | :<br>             |              |                                       |              |
| <u> </u>                                    | :                 | :            |                                       |              |
| 4. Prepare Loop/Design Related Inform       | attion (DRI) S    | creen        |                                       | :            |
| Venty that Loop Facilities Assignment and   |                   |              |                                       | VC A         |
|   |                   |              | G-112-22-6 115                        | √2 ×cπe≥     |
| Check excession on LPADM, DRI, LOOP         |                   |              | :                                     | :            |
| Resorve Design Related Information (DRI)    | Eners             | •            | :                                     |              |
| Resorve Local Local Errors                  | ;                 | ;            | •                                     | :            |
| Markativ teacthe LPADM, DRI, LCOPZ a        |                   |              |                                       |              |
|   |                   |              | ·                                     |              |
| <u> </u>                                    | <del></del>       | <del></del>  | ·                                     | ·            |
| 15. Circust Design                          | :                 | !            | :                                     | <u>:</u>     |
| Check GONDTE = POFLOW == ETE                |                   | :            |                                       |              |
| Resolve Facility. Assignment or Economic    | t issues with C   |              | Facesser ICE                          |              |
| Resove Circuit Detail Errors;               |                   |              | (0.                                   | <del>'</del> |
|   | ·                 |              | <del></del>                           | •            |
| Suit Circum Detail Document                 |                   |              |                                       | <u>:</u>     |
| Leonarume and Escape Criter                 |                   |              | •                                     | :            |
|   |                   |              |                                       | :            |
| IS. Discrepate Word document                | <del>~~~~~~</del> | · ·          |                                       | <del> </del> |
|   |                   |              | <del></del>                           |              |
| Districte Design Document:                  |                   | <u> </u>     |                                       | :            |
| Resove any Distriction Errors               | ,                 | :            | :                                     | :            |
| ilssue Desich Lavour Remote (DLR)           | •                 |              |                                       |              |
| lissue Word Document                        | :                 | •            | <del></del>                           | <del></del>  |
| - reproduct 6 % has an antiferror of the da |                   | <del></del>  | ·                                     | 1            |
|   |                   | :            |                                       |              |
|   |                   | :            | :                                     |              |
| DISCONNECT                                  |                   |              | :                                     | :            |
| 11. Order Handling/Screening                | <del> </del>      | <del></del>  | · · · · · · · · · · · · · · · · · · · | ·            |
|   | ·                 | <del> </del> |                                       | ·            |
| Check for Order Accuracy                    |                   |              | :                                     | :            |
| Check SOAC for RMA's                        |                   |              | :                                     | :            |
| Versy A & Z Lowers at RDLCC                 |                   |              |                                       |              |
|   |                   |              | <del></del>                           |              |
| Access TIRKS for Corons                     |                   |              |                                       | ·            |
|   |                   |              |                                       | •            |
| 2 GOC Order Logging .                       | :                 |              |                                       | :            |
| ACCESS TIRKS (WA. POFLOW, GONOT             | <del>-</del>      |              |                                       | <del></del>  |
|   | <del></del>       |              | <del></del>                           |              |
| Verty Order III. Service Processor          |                   |              | ·                                     | :            |
| Screen and Lot 600                          |                   |              |                                       | :            |
| PE Remans in GONOTE Once Manual             | ۷ لحجج            |              |                                       |              |
|   |                   |              |                                       |              |

#### PRIVATE LINE SERVICES

| :                                   |           |             |                                       |             |   |
|-------------------------------------|-----------|-------------|---------------------------------------|-------------|---|
|                                     |           |             | -                                     |             |   |
| 2. Enter WA Mask                    |           |             |                                       |             |   |
| Verty Facilities in TiRKS           |           |             |                                       |             |   |
| Add Recurred Date to WA Screen      | ÷         |             | ;                                     |             |   |
| Verity that WA Screen Matures Servi | ce Orace  |             | :                                     |             |   |
| Martially month WA Screen           |           | <del></del> |                                       | <del></del> |   |
| :                                   | •         | <del></del> | · · · · · · · · · · · · · · · · · · · | <del></del> |   |
| 4. Disconnect Circuit               |           |             |                                       | •           |   |
| Check GONOTE or POFLOW for en       | *         | ·           | ·                                     |             |   |
| Resove Facility. Assembler of East  | ner ssues | war. C?     | ·                                     | ·           |   |
| Resorve Circuit Detail Document     | ····      |             |                                       |             |   |
| Jenszere zez Estable Order          |           |             |                                       |             | - |
| : :                                 | _         | •           | :                                     |             |   |
| 5. Distribute Word Document         |           |             | :                                     |             |   |
| Districte Design Document :         |           |             | ,                                     |             |   |
| Resolve any Distriction Errors      |           |             | :                                     |             |   |
| issue DLR :                         | i         | :           |                                       | :           |   |
| issue Word Doctnett                 | •         | :           |                                       |             |   |

The second secon

#### **CENTRAL OFFICE**

Responsible for service connection in the central office and associated testing and administrative functions. Places cross-connects (jumpers), performs cross-office testing, and provides support to field installation and control center for circuit testing as required.

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

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  encountered during the work activities to process the service order. System
  downtime or times spent resolving internal order flow procedures are examples
  of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

| Central Office Technician<br>Work Activities (New<br>Connect Order) | COPROVIDENCOPR<br>OVIDER CROSS.<br>CONNECT |
|---|--|
| Analyze Order   | 5 minutes                                  |
| Complete Cross-connects   | 4 minus                                    |
| Complete WFA-Di craer   | 2 minutes                                  |
| Complete Order van CCT-;  | 3 minutes                                  |

| Central Office Technician<br>Work Activities Disconnect<br>Connect Order) | COPROVIDER/COPR<br>OVIDER CROSS-<br>CONNECT |
|---|---|
| Analyze Order   | 5 minutes                                   |
| Remove Cross-connects   | 2.3 minutes                                 |
| Complete WFA-DI order   | 2 minutes                                   |

Source: Jerry Shiputski, Linda Heratricks 2/17/99

### **IMPLEMENTOR**

Has overall control responsibility for provisioning, maintaining, coordination and testing of designed services.

Contacts other centers/technicians for the coordinated effort to complete service order activity requirements.

Tests with central office, field installation personnel as necessary. Provides test results to customer.

Notify customer of work completed

Complete order in required systems (Work Force Administration)

### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

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- The time estimates do not include any maintenance or repair times.

Subject: CLEC TO CLEC

Date: Fri. 5 Feb 1999 16:14:22 -0600

From: "Linda Hendricks" < lkhendr@notes.mnet.uswest.com>

To: ddeffle@uswest.com, gshypul@uswest.com

The attached is what I feel the times would be for the CLEC to CLEC Cross Connect.

(See attached file: CLEC TO CLEC COMBO.doc)

The interim process is not written yet, but how I am seeing the Implementors roll is:

Receive request in WFA/C (SCR/WSD)
Hand off to WFA/DI for COT work step (SCR/WSD)
Verify work is complete by COT and post DVA complete ( DVA)
Call customer and let them know order is cross connected (DVA or FCD)
We call customer to verify they have tested the circuit and all is ok...(PTD)
Complete order in WFA/C on DD

Linda

TICLEC TO CLEC COMBO.doc

Name: CLEC TO CLEC COMBO.doc

Type: Winword File (application/msword)

Encoding: base64

Description: Word 6.0 Windows/Mac

### CLEC TO CLEC COMBINATION LINDA HENDRICKS FEBRUARY 5, 1999

| DESCRIPTION                            | DSIDS3 BASIC INSTAL1 (REUSE) | - |
|--|------------------------------|---|
| ೨€. <b>ಬ</b> ್                         | F .BA.                       |   |
| IMPLEMENTOR                            |                              |   |
| STALE SCREEN WEA FOR CIRCUIT           | 5 5                          |   |
| VENEY LND COMPLETION TEST CKT          | 5 5                          |   |
| NOTEY CUSTOLER<br>COMPLETE CKT IN WEAK | 5 5                          |   |
|  | 10 16                        |   |
|  |                              |   |
|  |                              |   |
| COMNECT<br>CREEN WEA FOR CKT           |                              |   |
| ONTACT CUSTOMER                        | 5 0                          |   |
| OMPLETE CKT IN WFA/C                   | 5 9                          |   |
|  |                              |   |

The times documented above are average estimates.

They do not reflect times spent for supplement to the order.

They do not reflect problems with the order or redesign issues.

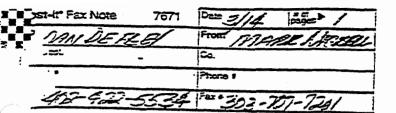
They do not reflect problems or trouble at test, with systems or with the customer.

All times are based on a perfect service order and no problems encountered at test & munia.

Attached are the functions associated with the steps performed by the Implementor.

THE FOLLOWING NETWORK TIMES FOR UNLOADING LOOPS HAVE BEEN REVIEWED AND STILL APPLY TO THE CURRENT SERVICE ORDER PROVISIONING PROCESS.

Per Al Meins Lead Process Analyst



#### IISWEST

COMMUNICATIONS @ Network & Technology Services - Interconnect

### MEMORANDUM/ FACSIMILE

DATE: October 19, 1995

FOR:

Telephone

402-422-7281

FAX

402-422-5534

FROM:

Mark Nickeil

Dan Deffiev

303 707-7201

303 707-9338

CC:

Jo Gentry

303-965-4327

303-896-6297

Susie Dalton 303-707-7471

303-707-9795

SUBJECT: Incremental Network Times for Unloading Loops

Per our 10/18/95 conference cail, I am providing the following incremental time estimates. These time increments are for unloading one 25 pair cable group in an underground environment.

| Engineering  |     |          |
|--|-----|----------|
| Splicing technician:   | 180 | minuies  |
| Travel time  |     |          |
| Site Setup (utility noie)  | 20  | minutes  |
| 1. Work area protection  | 20  | minutes  |
| <ol> <li>Test and ventilate utility hole and/or pit</li> <li>Pumping and cleaning utility hole</li> </ol>  | 20  | minutes  |
| 4. Buffering pressurized cables  |     | negated  |
| Splicing operation   |     | negated* |
| 1. Open splice case  |     |          |
| 2. Unioad 1 pair   | 15  | minutes  |
| 3. Close spiice case   | 15  | minutes  |
| 4. Re-pressurize and flash test  |     | minutes  |
| Site tear down   | 15  | minutes  |
| 1. Close utility hole and remove work area protection  |     |          |
| Total spilicing technician time per utility hole   | 30  | minutes  |
| , and a second s | 150 | minutes  |

It is assumed that if unloading is required, then the minimum number of load coils will be (3). This number is determined by deviding 18,000 Kf.. by 6,000 ft.. The following times were developed using this assumption:

Engineering times:

Splicing technician's time:

180 minutes

150 x 3= 450 minutes

Utility hole is not always pumped out and cleaned

Cables are not always buffered. Standard unloaded loop length.

Standard load coil interval.

One time job cost that does not include incremental times per utility hole.

#### INTERCONNECT SERVICE CENTER

Serves as the primary order provisioning contact for Competitive Local Exchange Carrier (CLEC) customers who purchase unbundled network elements products and services (i.e. Number Portability, Unbundled Loop, Unbundled Lineside Port, Resale) from Qwest.

The center provides end-to-end order coordination from request through order completion and serves as the primary liaison for the customer for all downstream organizations.

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

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- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

Subject: Documentation of flowthrough expectations

Date: Wed, 21 Mar 2001 14:06:41 -0700
From: "John Curtis" <jxcurt2@uswest.com>

Organization: MSF&W SOFTWARE

To: ddeffle@uswest.com. dgolleh@uswest.com, tmillio@uswest.com.

Wendy Jackson <wjjacks@uswest.com>

Dan,

Attached is the document we discussed in February.

John Curtis IT Regulatory

Phone: 303-965-6324 Fax: 303-965-0301

LSR flow through documentation for cost models doc

Name: LSR flow through documentation

for cost models.doc

Type: Microsoft Word Document

(application/msword)

Encoding: base64

#### LSR flow through - March 9, 2001

Significant effort has been directed to decreasing the manual handling of competitive local exchange carrier (CLEC) orders.

IMA releases 6.0 (December 2000), release 6.01 (February 2001), release 7.0 (April 2001), release 7.01 (June 2001) and release 8.0 (August 2001) in conjunction with FTS have made (will make) improvements in CLEC order flow through.

While the actual performance of the IMA flow through enhancements may take some time to achieve maximum efficiency, the 271 Benchmarks for OSS testing are being set at a relatively high level. IMA release 7.0 has been selected for testing. For 4 of the wholesale products for which Qwest is establishing SGAT pricing, the Benchmarks have been set as follows: 1) resale POTS = retail parity for POTS order flow through, 2) UNE-P = retail parity for POTS order flow through, 3) unbundled loop = 85% flow through and 4) shared loop = 85% flow through.

The actual experience of Qwest retail flow through ranges from 94.31% to 96.04%, therefore it is reasonable to use a 95% flow through rate where the benchmark is retail parity.

Since these system enhancements are intended to reduce the ISC manual handling of CLEC LSR to the reciprocal of the benchmark, it is reasonable to reflect the benchmark flow through rates in the development of the UNE ordering costs in the Qwest SGAT pricing of the affected products.

The following sections are examples of the business requirements that are being met with the system enhancements.

#### NOTICE

INTERCONNECT SERVICE CENTER
LOOP SERVICE REQUEST (LSR) PROCESS AND TIME ESTIMATES
REVIEW
MAY – JUNE 2001

#### SUBJECT MATTER EXPERTS PROVIDING INPUT TO REVIEW

JOANNE GARRAMONE
LINDA MILES
STAFF MANAGER
SAMI HOOPER
MARLENE DIMANNA
STAFF MANAGER
MARK EARLY
CHERYLL GILLIAN
MARK ANDREWS
SERVICE DELIVERY COORDINAT

MARK ANDREWS SERVICE DELIVERY COORDINATOR
MARY ANDERSON SERVICE DELIVERY COORDINATOR
CRYSTAL SODERLUND SERVICE DELIVERY COORDINATOR

DANIEL DEFFLEY COST ANALYST

During May and June 2001 a number of conference calls were held to conduct a review of the Interconnect Service Center LSR (Loop Service Request) process and time to issue service orders. The purpose was to assure consistency with assumptions made when estimating times for processes that pertain to unbundled element products.

#### Key assumptions considered include:

- Forward looking process, 12-18 months if possible
- Time estimate based on average that does not include internal order flow problem solving, system down
- High skilled experience level of subject matter experts making time estimates
- Time estimates should not include supplements to initial order.

IMA flow through was addressed and flow through percentage weightings has been applied to the product that will have flow through.

DVD June 2001

### UNBUNDLED LOOP PROCESS, TIME ESTIMATES. PROBABILITIES

Date: June 4, 2001

From: Joann Garramone

Title: Staff Manager-Service Delivery

Interconnect Service Center

INSTALL

| Vanta a minima kan ina           | Maria duda shaca sadar   | Firm         | T- 4 3 31    | D 1 1222   |
|----------------------------------|--|--------------|--------------|--|
| Vork activity begins:            | May include these tasks:   | First        | Ea Addl      | Probability                                      |
|                                  |  | (minutes)    | (minutes)    | of   |
|                                  |  |              |              | occurrence                                       |
|                                  |  |              |              | (%)  |
|                                  | Reviews LSR for completeness and accuracy, contractual           |              |              |  |
|                                  | entries (analyze request to determine co-provider, type of       |              |              | }  |
| Leceive LSR                      | order and installation option)                                   | 3            |              | 100  |
|                                  | Verifies CFA or facility/circuit availability                    | 1            |              | 5  |
|                                  | Exchange Info-Obtain Central Office, name, address and           |              |              |  |
|                                  | office type, Access Telephone Address Guide to obtain the        |              |              | İ  |
| •                                | central office address   | 4            |              | 100  |
|                                  | CPPD-lookup billing USOC's for co-provider                       | 2            |              | 100  |
|                                  | Summary Bill List-Look up BTN#, tax code, and Bill date          | 2            |              | 100  |
|                                  | Analyzes request to determine the co-provider, type of order     |              |              |  |
|                                  | and installation option.   | 2.5          | -            | 100  |
|                                  | Verify Qwest end user Customer Service Record to determine       |              |              |  |
|                                  | if order issuance is applicable to provide the product. If       |              |              | 1  |
|                                  | applicable, may include rejecting the LSR.                       | N/A          |              |  |
|                                  | Determine if the end user has Qwest directory advertising        | N/A          | <del></del>  | <del> </del>                                     |
|                                  | Determine if the end user has Qwest tractory advertising         | N/A          |              | <del></del>                                      |
|                                  | Determine critical dates   | 1            |              | 100  |
| ssue appropriate forms and/or    | Determine critical dates   |              |              | 100  |
| orders                           | l.,  |              | ŧ            | ļ  |
| orders                           | If there is either directory advertising or a retail contract or |              | 1            | 1  |
|                                  | both, issue the order to remove the information from the         |              |              | 1  |
|                                  | account. An estimate of 50% of the accounts will have these.     | 3            | ļ            | 50   |
| Customer Request Management      |  | _            |              | 1  |
| CRM)                             | Populate required fields   | 3            | 3            | 100  |
|                                  | Type, review and submit to customer the Firm Order               |              | 1            | 1  |
| Review FOC                       | Confirmation (FOC)   | 3            |              | 100  |
| ssue service order               | Input unbundled loop order into service order processor          |              | <b>!</b>     | •  |
|                                  | (manually typing and formatting of all order for billing and     |              | }            | 1  |
|                                  | provisioning of the loop)  | 10           | 5            | 100  |
| Service Order Analysis & Control | Ensure order is successfully distributed to the systems and is   |              |              |  |
| (SOAC/SOP)                       | ready for provisioning   | 3            | 3            | 100  |
| Call Handling                    | Includes handling calls from other departments working the       |              |              |  |
|                                  | order.   | 5            | 1            | 60   |
| Error on Service Order (ESOI)    | Handling of problems on the LSR, provisioning issues such as     |              |              | 1  |
|                                  | conditioning, facility problems, cable & pair, and typing        |              |              | :  |
|                                  | problems handled by the center.                                  | 5            | 1 1          | 8  |
|                                  |  |              | 1            |  |
|                                  | DISCONNECT   |              | <del></del>  |  |
| Work activity begins:            | May include these tasks:   | Time used:   | T            | 7  |
|                                  |  | (minutes)    | 1            |  |
|                                  | Reviews LSR for completeness and accuracy, validate circuit      | (1111111111) |              | <del>                                     </del> |
| Receive LSR                      | belongs to the co-provider                                       | 3            |              | 100  |
| CCCCIVE DOIL                     |  |              |              | 100  |
|                                  | Verifies existing account (accesses CSR in BOSS/CARS) and        | ,            |              | 100  |
|                                  | obtains closing bill address if applicable                       | 2            | <del></del>  | 100  |
| h : 500                          | Type, review and submit to customer the Firm Order               |              |              |  |
| Review FOC                       | Confirmation (FOC)   | 2            | <del> </del> | 100  |
| Issue service order              | Input disconnect of loop order into the service order processor  |              |              |  |
|                                  | (manually typing and formatting of all order for billing and     |              |              |  |
|                                  | provisioning of the loop)  | 10           | 5            | 100  |

| Customer Request Management      |  |   |   |     |
|----------------------------------|--|---|---|-----|
| (CRM)                            | Populate required fields                                       | 3 | 3 | 100 |
| Service Order Analysis & Control | Ensure order is successfully distributed to the systems and is |   |   |     |
| (SOAC/SOP)                       | ready for provisioning   | 3 | 3 | 100 |
|                                  |  |   |   |     |

The times described in this chart are for all unbundled loops. These times are based on the projected savings with the order creation by IMA and increased experience level in the ISC. IMA does not create a complete order for all types of Unbundled Loop; some manual typing is required.

The Job Title and Job Function/Account Code for the individuals performing these tasks is:

SDC (Service Delivery Consultant) Job function code 6623.123

ISC Work Time for Unbundled Loops

#### Key Assumptions:

The times documented are forward looking.

The times documented here are average times.

They do not reflect problems encountered during the processing of the service order.

They do not include supplements to the initial order.

These estimates do not include any maintenance or repair time.

This process is as of today and the current functionality if IMA for ordering formatting.

IMA partial order creation. IMA wil create a portion of the service order and may vary by Unbundled Loop product.

### LOOP PROVISIONING CENTER (LPC)

Utilizing the Facility Assignment Control System (FACS), ensures customer service order activity is provisioned with outside plant and central office facilities. FACS automatically processes the order with the facilities assignments.

Assignment Consultants are responsible for FACS component exception messages. A Request for Manual Assistance (RMA) is generated when all conditions for a customer service cannot be met. The assignment consultant resolves the RMA and the order is placed back into the system.

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  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems
  encountered during the work activities to process the service order. System
  downtime or times spent resolving internal order flow procedures are examples
  of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

Subject: LPC info

Date: Wed, 16 May 2001 07:44:25 -0500

From: "Jeanette S. Cainic" < jcain@uswest.com>

To: ddeffle@uswest.com

Dan,

Better late than never. Sorry this took so long - no excuses, just busy. Everything has been concurred in by Diane Diebel's staff (LPC Process) so, feel very comfortable with this letter. No changes to times/dollars, they felt the Specials flow through rate was still a good average even though they have some months that hit the low 70ties.

I've changed some of the text as we've done more automation of RMAs.

Good Luck,

Jeanette

Name: lpc01.doc

Type: Winword File (application/msword)

Encoding: base64

May 10, 2001

TO: Dan Deffley

FROM: Jeanette S. Cain IT Development-FACS (402) 422-8319

RE: Loop Provisioning Center (LPC) Service Order Flow Through Rates and Error Resolution
Times

The LPC is responsible for ensuring customer service order activity is provisioned with outside plant and central office facilities in a timely and accurate manner. The Facility Assignment Control System (FACS) which is comprised of components; Service Order Analysis and Control (SOAC), Position Analysis Workstation (PAWS), Loop Facilities Assignment and Control (LFACS) and SWITCH is the provisioning application supported by the LPC. Assignment Consultants are the employees responsible for FACS component exception messages.

Brief descriptions of the FACS components are;

SOAC - maintains control and status information on all service order requests, as well as the input image and certain data resulting from processing. This system interfaces with the service order processor (SOP) and the other service provisioning systems. SOAC generates assignment requests to LFACS for outside plant and to SWITCH for central office facilities. After assignments are made, SOAC receives responses from LFACS and SWITCH, merges and formats this data into a service order assignment section and automatically returns it to the SOP. SOAC sends the formatted assignments to Work Force Administration/Dispatch Out (WFA/DO). For switched customer service requests SOAC sends the telephone number, office equipment and features to MARCH for translation to the physical switch.

PAWS - a software system linked to SOAC to receive messages on service order activity. The primary function of PAWS is to distribute exception messages to Assignment Consultants for resolution.

LFACS - maintains a mechanized inventory of outside plant facilities (i.e., customer addresses, cables, cable pairs, cross box and customer serving terminals, assembled loops and loop makeup) and assigns the outside plant facilities to assignment requests received from SOAC. LFACS also generates work sheets for cable transfers and reconcentrations. These activities are updated mechanically upon notification of completion. In addition, LFACS is used to make repair changes to working customer service.

SWITCH - used to inventory and assign central office switching equipment and related facilities i.e., range extension equipment, tie pairs and bridge lifters. Assignment requests are received from SOAC after successful LFACS assignments are made.

When all conditions for a customer service request cannot be met by the FACS components a Request for Manual Assistance (RMA) is generated. An RMA indicates service order processing has been stopped. The RMA identifies the reason the service order cannot be automatically processed, the FACS component that failed processing and provides an image of the customer service request.

All RMAs are sent from SOAC to PAWS. PAWS places the RMAs into a 'next work package' queue. Assignment Consultants using an intelligent work station (IWS) terminal access PAWS to retrieve RMAs for resolution. Assignment Consultants are trained to resolve all RMA types for all

service requests. Meaning, they can resolve exception messages for POTS, non-designed specials, specials and Wholesale product/services(s) service order activity. The objective for RMA resolution per Assignment Consultant is forty (40) per day.

U S WEST has developed two (2) applications which utilize artificial intelligence to resolve various RMAs. The applications are ARMAR (Automatic RMA Resolution) and APP (Automated Provisioning Platform). ARMAR is used to resolve working left-in RMAs. APP resolves RMAs which are a result of, exact match for address cannot be found, no available/compatible cable facilities, restricted terminals and loop makeup not available. These applications have reduced the number of RMAs sent to Assignment Consultants for resolution. Assignment Consultants will get these RMAs only if the artificial intelligence applications cannot resolve.

FACS flow through objectives have been established for, total customer service requests, special service orders and artificial intelligence (mechanical) applications. The **overall flow through objective** is based on total service order volume that includes; POTS, non-designed specials, coin, specials, Wholesale product/service(s) and artificial intelligence applications. **Individual flow through objectives** have been established for Special Services (orders provisioned in TIRKS) and artificial intelligence RMA resolution. **No individual flow through objectives** have been established for POTS, non-designed specials, coin or Wholesale product/service(s). The flow through and RMA objectives consider all order activity types: inward, outward and change as well as, single and multi-line requests. There is a single objective for Assignment Consultant RMA resolution, this objective does not differentiate between type of customer service requests (inward, outward, change) or number of lines per requests.

The following summarizes the flow through (FT) and Assignment Consultant objectives for 2001:

|                             | 2001             |
|-----------------------------|------------------|
| Overall FT*                 | 85%              |
| Special Services FT         | 60%              |
| Mechanical FT               | 85%              |
| Assignment Consultant       | 40 RMA's per day |
| Avg clearing time per RMA** | 11.25 min        |

\*POTS flow through is included in this objective, there is no individual objective for POTS.

The flow through and Assignment Consultant objectives as well as average clearing time are based on all service order activity types; inward, outward and change. Specific objectives have not been established for inward/change or outward activity

<sup>\*\*</sup>Average clearing time per RMA includes all activity types; inward, outward and change as well as single and multi-line requests.

Subject: Re: Loop NRC Process

Date: Tue, 04 Dec 2001 11:20:22 -0600 From: Jeanette Cain <icin@qwest.com>

Organization: Owest Information Technologies

To: Daniel Deffley <ddeffle@qwest.com>, dgolleh@qwest.com

CC: rstrunk@qwest.com, jcain@qwest.com

Dan Doug

Thought I'd send you an email of what I said on the call this morning;

When U S WEST (Qwest) began work on Competive Provisioning of Unbundled Loops we first looked at

what order flow, POTS vs Designed, would be the most efficient/effective. When the decision was

made to use the Designed flow we then looked at the provisioning systems, (SOAC, LFACS & SWITCH)

involved and used by the LPC, to determine if enhancements were needed to obtain optimum flow

through. There was never an intent to have 100% flow through, this is literally impossible but.

we wanted to make certain we could get as high a precent as possible. This is the same practice

we use for Qwest retail product deployment.

No major software changes were needed in the provisioning applications. SOAC required

modifications to support order writing and product deployment. The changes were in SOAC site

tables, some of these tables are updated by Telcordia (six week turnaround) and others are updated

by Qwest FACS SYAD, to add FIDs and USOCs. LFACS and SWITCH required no changes.

The main reasons for fallout in the provisioning applications are;

- invalid input from the CLEC e.g., end user address or product request
- 2) no facilities available that meet the qualifications for the CLEC product requested e.g., CLEC

requests loop with no bridge tap or load coil and spare facilities do not meet this criteria

- 3) no compatible, spare facilities available
- 4) compatible facilities are automatically assigned however, there is no available loop makeup

for the loop assigned (loop makeup is such items as; cable gauge, length, bridge tap, loading)

Actions taken by LPC when these conditions occurred;

- return the order to the ISC for verification with Co-Provider
- 2 & 3) attempt to locate compatible facilities using the 11 step delayed order process. If

unable to locate then enter the order in RTT (Referral Tracking Tool) as a delayed order (held order)

4) the error is automatically routed to the Design Advisory Group (DAG) to enter the loop make up

for the loop assigned to the order. Once the DAG enters the information the order will

automatically be re-stared through the systems and continue on to design.

The LPC would follow the same processes for fallout with designed orders for Retail,

the only

exception is verification on input errors (#1) would not go to ISC but, to a Qwest market unit.

There is a web site that tracks volume associcated with these errors unfortunately, cannot

differeniate between Wholesale or Retail counts. Further, the LPC doesn't care whether the

fallout is Wholesale or Retail their measurement is to resolve in today out today fallout. If

volume of fallout exceeds what LPC can handle in a day then, the fallout is prioritized by due date.

Jeanette S. Cain (402) 422-8319

#### Daniel Deffley wrote:

```
> Attached is the file I referred to on my voice message.
> The conference call is scheduled for 10:00 central, Tue, Dec. 4
 Call in # 877-591-8687
> Conf. id # 325-1015
> Your attendance or a representative from your center is critical.
> Once again, the critical need is to defend Qwest nonrecurring cost with
> regard to service order processing and provisioning of unbundled loop
> and other elements. At this time the focus is on centers that touch the
> order due to fall out or other manual provisioning requirements. ISC
> issues will be addressed separately.
> Dan Deffley
> Cost Analyst
> 402-422-7281 (currently voice message only)
>
                                      Name: AZ NRC QWEST-ATT ANALYSIS.xls
     AZ NRC QWEST-ATT ANALYSIS.xls
                                      Type: Microsoft Excel Worksheet (application/vnd.ms-excel)
                                  Encoding: base64
```

Jeanette Cain < jcain@uswest.com>
Staff IT Analyst

IT

Software Development

#### DESIGN

- Overall responsibility for RID (Record Issue Date) completion.
- Upholding Qwest design standards
- Assigns interoffice facilities and equipment at the circuit level
- Prepares and distributes WORD (Work Order Record Detail) including DLR (Design Layout Record).
- Ensures that TIRKS (Trunks Integrated Record Keeping System) designs meet the customer expectations.
- Escalates as necessary to ensure pre-RID dates are met.
- Advises Qwest sales forces or order originators of jeopardies as they are discovered.
- Maintains TIRKS database integrity by making design changes as they occur (i.e. cable pair changes, etc.)

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#### DESIGN

### Unbundled Network Elements Local Interconnection Service Time Estimate, Service Order Work Activities Process

Kathy Platts - Staff Manager in the Designed Services Center (Des Moines) is the Subject Maner Expert that compiled and provided the time estimates, probabilities, and work activity descriptions for the Designer.

Kay Gruebel - Staff Manger, Designed Services Center (Des Moines) compiled and provided the time estimates and work activity descriptions for LIS, Unbundled Switching, and CCSAC elements.

Conference calls with Staff Managers and interviews with Design Technicians were conducted to review the work activities, assign time estimates, and assign flow through percentages for unbundled network elements.

Latest review made May, 2000

Subject Matter Experts contributing to results:

Kathy Platts - Staff Manager Designed Services, Des Moines

Dave Olson - Manger Designed Services Methods, Seattle

Denis Robison - Staff Manager Designed Services, Salt Lake City

Kay Gruebel - Staff Manager Designed Services, Des Moines

Design Technicians, Des Moines, Salt Lake City

#### PRIVATE LINE SERVICES

| Jan-99:                          |                                       |                |                  |                 |              |
|----------------------------------|---------------------------------------|----------------|------------------|-----------------|--------------|
| SERVICE DELIVERY DESI            | GN ANALOG                             | PROCESS        | !                |                 |              |
| Work Activity Descriptions       | 1                                     |                | :                |                 |              |
|                                  | 1                                     |                | :                |                 |              |
| INSTALL                          | :                                     |                |                  |                 |              |
| 1. Order Handling/Screen         | inc                                   |                | · · · · · ·      |                 |              |
|                                  | · · · · · · · · · · · · · · · · · · · |                |                  |                 |              |
| Check for Order Accuracy         |                                       |                |                  |                 |              |
| Check Service Order Analys       |                                       | SOAC) for Red  | ruest for Manua  | i Assistance (i | RMA'S)       |
| Verify A & Z Location in RDI     |                                       | <u>!</u>       | :                |                 |              |
| Access Trunks Integrated R       | ecord Keeping                         | System (TIRKS  | S) for Circuit : |                 |              |
| Check Order for Coordination     | n Time (if not a                      | vaitable)      | !                | :               |              |
| Call Order Originator to ask     | for Coordination                      | 3              | :                |                 |              |
| ÷                                | !                                     | !              | :                |                 |              |
| 2. Generic Order Control         | (GDC) Order L                         | occinc         | }                | :               |              |
| Access TIRKS (Work Autre         |                                       |                | NOTE)            |                 |              |
| Verify Order in Service Proc     |                                       | :              | · · ·            |                 |              |
| Screen and Log GOC               | 1                                     | <del></del>    | <u>'</u>         | <del></del>     |              |
| Put Remarks in GCNOTE C          | reins Manually                        | annad          | <u> </u>         |                 |              |
| I-U. REIMINS III GCNOTE C        | ide weutrany                          | Lugged         | :                |                 |              |
| C                                | <del></del>                           | <del>!</del>   | ·                | !               |              |
| 3. Enter WA Mask                 | 1                                     | :              | <u> </u>         |                 |              |
| Check Availability of Facilities |                                       | <u>:</u>       | ;                | ;               |              |
| Add Required Data to WA S        | creen                                 | <u>:</u>       | <u>:</u> :       |                 |              |
| Iventy that WA Screen Mate       | hes Service Or                        | der            | i                |                 |              |
| Manually input WA Screen         | ı                                     | i              |                  |                 |              |
| ; ;                              | !                                     |                | !                |                 |              |
| 4. Prepare Loop/Design F         | Related Inform                        | ation (DRI) Sc | reen             |                 |              |
| Venty that Loop Facilities A     |                                       |                |                  | nments & TIR    | KS Agree     |
| Check information on LPAD        |                                       |                |                  |                 | - Agitt      |
| Resolve Design Related inf       |                                       |                | <del></del>      |                 |              |
|                                  | i i                                   | ENDIS          | <del>,</del>     | ·               |              |
| Resolve Local Loop Errors        |                                       | 1              | 1                | !               |              |
| Manually load the LPADIV         | DRI, LOOPZ, a                         | nd CD Screen   | <del>!</del>     |                 |              |
| <u> </u>                         | 1                                     |                | !                | 1               |              |
| 5. Circuit Design                |                                       | į              | 1                | į               | 1            |
| Check GCNOTE or PCFLO            | OW for error                          | <u>:</u>       | 1                | !               | !            |
| Resolve Facility, Assignme       | nt or Equipmen                        | Issues with Co | ommunications    | Processor (CP   | )            |
| Resorve Circuit Detail Error     | SI                                    | 1              | !                | :               | :            |
| Suild Circuit Detail Docume      | est.                                  | <del></del>    | <del></del>      | 1               |              |
| Jeopardize and Escalate O        |                                       | <del></del>    | <del> </del>     | :               | <del></del>  |
| SESSORIAL ENGLISHED S            |                                       | <del></del>    | <del></del>      | <del> </del>    | ·            |
| S Significant Manual disease     |                                       | ·              | <del></del>      | <del> </del>    |              |
| 6. Distribute Word docum         |                                       | <del></del>    | <del>-</del>     | <del> </del>    |              |
| Distribute Design Docume         |                                       | <u> </u>       | <u>:</u>         | <del></del>     | 1            |
| Resolve any Distribution E       |                                       | ·              | :                | <u> </u>        |              |
| issue Design Layout Reco         | ro (DLR)                              |                | :                | :               | 1            |
| Issue Word Document              | !                                     | 1              | i                | :               | 1            |
|                                  | i                                     | :              | ;                | 1.              | 1            |
| :                                | !                                     | ·              | :                | 1               | ī            |
| DISCONNECT                       | <del></del>                           | <del></del>    | 1                | <del></del>     | -            |
| 1. Order Handling/Scree          |                                       | <del></del>    | <del></del>      | 1               |              |
|                                  |                                       |                |                  |                 | <del>!</del> |
| Check for Order Accuracy         | <del></del>                           |                |                  | · <del>`</del>  | <del></del>  |
| Check SOAC for RMA's             |                                       |                |                  |                 | <u> </u>     |
| Venty A & Z Location in R        | DLOC                                  |                |                  | <u>i</u>        | ·            |
| Access TIRKS for Circuit         |                                       |                |                  |                 |              |
|                                  |                                       |                |                  |                 |              |
| 2. GOC Order Logging             |                                       |                |                  | :               |              |
| Access TIRKS (WA. PCF            | LOW, GCNOT                            | Ē)             |                  |                 |              |
| Verify Order in Service Pr       |                                       | <del></del>    | •                | •               | <del></del>  |
| Screen and Log GOC               | · i                                   | :              | 1                |                 |              |
| Put Remarks in GCNOTE            | Order & dom - 11                      |                |                  |                 |              |
| FUL REMBIRS IN GUNU 1            | - Diver Manuali                       | i rodden       |                  |                 |              |

#### PRIVATE LINE SERVICES

|  |              |      |          |   | _ |
|--|--------------|------|----------|---|---|
| : ,                                      |              |      | <u> </u> |   |   |
| i  |              | 1    |          | ; |   |
| 3. Enter WA Mask                         |              | !    |          |   |   |
| Verify Facilities in TIRKS               |              |      | :        |   |   |
| Add Recuired Data to WA Screen           |              |      |          |   |   |
| Verify that WA Screen Matches Service O  | rder         | ;    | :        |   |   |
| Manually input WA Screen !               | (            |      | :        |   |   |
| ,  | ;            |      | i        | i |   |
| 4. Disconnect Circuit                    |              | 1    | ;        |   |   |
| Check GCNOTE or PCFLOW for error         |              | :    |          |   |   |
| Resolve Facility, Assignment or Equipmen | t issues wit | n CP | •        | : |   |
| Resolve Circuit Detail Document          |              |      | ì        |   |   |
| Jeopardize and Escalate Order            |              |      |          |   |   |
| •  | ;            |      | :        | į |   |
| 5. Distribute Word Document              | :            |      | į        | : |   |
| Distribute Design Document I             | :            |      |          |   |   |
| Resolve any Distribution Errors          | i            | i    | i        | : |   |
| Issue DLR                                |              |      | ;        | i |   |
| Issue Word Docment                       |              | :    | i        | , |   |
|  |              |      |          |   |   |

#### CENTRAL OFFICE

Responsible for service connection in the central office and associated testing and administrative functions. Places cross-connects (jumpers), performs cross-office testing, and provides support to field installation and control center for circuit testing as required.

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

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- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

| Steve Hilleary STAFF MANAGER   | <del></del>                |                    |   |                    |   | ·                                       |  |                 |   |                 |
|--|----------------------------|--------------------|---|--------------------|---|---|--|-----------------|---|-----------------|
| MAY, 2000  |                            |                    |   |                    | <del></del>                                       | :                                       | -  | -               |   |                 |
|  |                            |                    |   |                    |   |   | T  | <del></del>     | <del></del>                                       | <del></del>     |
| Central Office Technician  | Haste (Reuse) Installation | Each Additional    | Baste with Performance Testing Installation | Each Additional    | Coordinated Installation with Cooperative Texting | Each Additional                         | Coordinated Installation with No Testing | Ench Additional | Basic Installation with Couperative Texting Pirst | Each Additional |
| 2 WIRE OR 4 WIRE ANALOG LOOP<br>2 OR 4 WIRE NON-LOADED LOOP<br>BRI ISDN CAPABLE LOOP   |                            |                    |   |                    |   |   |  |                 |   |                 |
| 1. Analyze Order   | 5 mm                       |                    |   |                    |   |   |  |                 |   |                 |
| 2. Complete Cross-connect  | 4 min                      | 5 min<br>4 min     | 5 min<br>4 min                              |                    | : > min   | . 5 min                                 | . 5 min                                  | : 5 min         | : 5 min   | 1 5 min         |
| Complete Loop Qualification  | NA.                        | <del>7 11111</del> | 2 min                                       | · 1 min<br>· 2 min | 4 min   | 4 min                                   | : 4 min                                  | : 4 min         | : 4 min   | 4 min           |
| 4. Record DVA Test Results   | 7.7                        | NA.                | 2 min                                       | · 2 min            | 2 min   | 2 min                                   | 2 min                                    | 2 min           | 2 min   | 2 min           |
| 5. Post DVA work complete in WFA-DI  | 2 min                      | 2 min              | 2 min                                       | 2 min              | 2 min   | 2 min                                   | 2 min                                    | 2 min           | 2 min   | 2 min           |
| 6. Analyze DD WFADI work Request   | NA                         | · NA               | 2 min                                       | 1 min              | 2 min   | 2 min                                   | 2 min                                    | 2 min           | 2 min   | 2 min           |
| 7. Set up of DD test with I&M tech   | NA                         | NA                 | 2 min                                       | 1 min              | 2 min   | 1 min                                   | NA<br>NA                                 | NA NA           | 2 min   | 1 min           |
| B. Complete DD work status with CCTI DS1/DS3 CAPABLE LOOP  | NA                         | . NA               | 3 min                                       | 1 min              | 3 min   | 1 min                                   | NA                                       | NA<br>NA        | 2 min   | 1 min           |
| L. Analyze Order   | 22000                      |                    |   |                    |   |   |  |                 | 2 min   | lmin            |
| 2. Complete Cross-connect  | 5 min                      | : 5 min            | 5 min                                       | 5 min              | 5 min   | 5 min                                   | 5 min                                    | 5 min           | 5 min   | 5 min           |
| Complete Loop Qualification  | 4 min                      | . → min            | 4 min                                       | 4 min              | 4 min   | 4 min                                   | 4 min                                    | 4 min           | 4 min   | 4 min           |
| . Record DVA Test Results  | NA NA                      | NA<br>NA           | 2 min                                       | 2 min              | 2 min   | 2 min                                   | 2 min                                    | 2 min           | 2 min   | 2 min           |
| . Post DVA work complete in WFA-DI   | 2 min                      | 2 min              | 2 min                                       | 2 min              | 2 min   | 2 min                                   | 2 min                                    | 2 min           | 2 min   | 2 min           |
| . Perform Continuity Stress testing  | NA                         | NA.                | 10 min                                      | 2 min<br>10 min    | 2 min   | 2 min                                   | 2 min                                    | 2 min           | 2 min   | 2 min           |
| . Set up of DD test with L&M tech  | NA                         | NA                 | 2 min                                       | 1 min              | 10 min  | 10 min                                  | NA.                                      | NA.             | N.A   | NA              |
| 3. Complete DD work status with CCTI   | NA                         | NA ·               | 3 min                                       | l min              | 3 min   | 1 min i                                 | NA<br>NA                                 | NA              | NA  | NA              |
|  |                            |                    |   |                    |   |   | INA                                      | NA              | NA  | NA              |
|  |                            | <u> </u>           |   |                    |   | !                                       |  |                 |   |                 |
|  |                            |                    | !   |                    |   |   |  |                 |   |                 |
|  |                            |                    | <del>:</del>                                |                    |   |   |  |                 |   |                 |
|  | <u> </u>                   |                    | :   |                    | :   | -                                       |  |                 |   |                 |
|  | Jr. Cr.                    | fema               |   |                    |   | İ                                       |  |                 |   |                 |
| Central Office Technician  | Discument Order            | Each Additional    | . !   |                    |   |   |  |                 |   |                 |
| The second secon |                            |                    |   |                    |   |   |  |                 | i   |                 |
| LL LOOP TYPES  |                            |                    |   | ·                  |   |   |  |                 | i   |                 |
| Analyze Order  | 5 min                      |                    |   | ·                  |   |   |  |                 |   | <del></del>     |
| LL LOOP TYPES  Analyze Order  Remove Cross-connect  Complete work request in WFA-DI  | 5 min<br>2.3 min           | 5 min<br>2.3 min   | · · · · · · · · · · · · · · · · · · ·       |                    |   | · - · · · · · · · · · · · · · · · · · · |  |                 |   |                 |

#### Install

#### 1. Analyze work request.

The COT accesses the WORD/CDOC document.

The COT determines if assignments/equipment requested by the work order are available

The COT verifies the Circuit Design is complete.

#### 2. Complete Cross-Connect.

The COT places the cross-connect(s) between the ICDF and the MDF or DSX frames. The type of loop ordered determines the number of cross-connect needed.

#### 3. Perform Loop Qualification

The COT performs a facility test with 77S or comparable test set.

#### 4. Record Test Results

The COT records the facility test results in the WFA-C OSSLOG

#### 5. Post work requst complete in WFA-DI.

The COT accesses the DITSC screen in WFA-DI to complete the WFA-DI work request.

#### 6. Analyze Due Date work request & call CCTI

The COT analyzes WFADI work request for appointment time and tests then calls the CCT-I to notify they are ready to perform at location.

#### 7. Set up for Due Date tests with I&M tech. \*2

COT sets up test equipment for DD tests

#### 8. Complete work request with CCT-L \*2

The COT calls the CCT-I to notify the physical work and testing in the Central Office has been complete.

#### 9. Complete Continuity Stress Testing

Digital pattern testing end to end over facility-

\*2 = Orders with coordinated Due Date testing only.

#### Disconnect

#### 1. Analyze Order.

The COT accesses the WORD/CDOC document.

The COT determines if assignments/equipment requested by the work order are accurate.

The COT verifies the Circuit Design notifies CCT-I of order inaccuracy.

#### 2. Remove Cross-Connects.

The COT removes the cross-connect(s) between the ICDF and the MDF or DSX frames. The type of loop ordered determines the number of cross-connect that will be removed.

#### 3. Complete work request in WFA-DI.

The COT accesses the DITSC screen in WFA-DI to complete the WFA-DI work request.

ACRONYM

DEFINITION

CCT-I

Customer Communication Technician-Implementor

CDOC

CI Prep Document (Central Office version of the WORD document)

CORAC

Central Office Resource Allocation Center

COT

Central Office Technician

CRON

Automated order load in WFA-DI

CWL

Circuit Work Location (each Central Office location involved on the order)

DD

Due Date Critical Date

DITSC

An Installation or Trouble Work Request screen in WFA-DI

DOSOI

Service Order Installation screen in WFA-DO

DS I&M Technician

Designed Services Installation and Maintenance Technician

DSX

Digital Services Cross-Connect

DVA

Designed, Verified, and Assigned Critical Date
Installation and Maintenance field forces

I&M ICDF

Interconnecter Distributing Frame

LNO

Local Network Operation (typically includes the Central Office and I&M work forces

LRAC

Load Resource Administration Center

MDF

Main Distributing Frame

000

Overall Control Office

OSSCN

Circuit Notes screen in WFA-C

OSSCWL

Circuit Work Location screen in WFA-C

OSSLOG

Work Request Log screen in WFA-C

OSSLST

Order List screen in WFA-C

OSSOI

Order Installation screen in WFA-C

USSUI

Older Editable Science II WPA-C

OWDDOC SCR WORD Document screen in WFA-C

-

Screener Critical Date

SDC USW Service Delivery Coordinator
U.S.WEST

WFA-C

Work Force Administration-Control Module

WFA-DI

Wash France Administration Prince to No. 4.1-

M LW-DI

Work Force Administration-Dispatch In Module

WFA-DO

WORD Document

Work Force Administration-Dispatch Out Module Work Order Record Detail Document

#### **IMPLEMENTOR**

Has overall control responsibility for provisioning, maintaining, coordination and testing of designed services.

Contacts other centers/technicians for the coordinated effort to complete service order activity requirements.

Tests with central office, field installation personnel as necessary. Provides test results to customer.

Notify customer of work completed

Complete order in required systems (Work Force Administration)

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### Customer Communications Technician - Implementor

#### Install

#### 1. Screen WFA-C for Order accuracy.

The CCT-I accesses the WFA-C OSSLST (Order List) screen to examine and prioritize order load by Critical Date.

The CCT-I accesses the WORD document on the OWDDOC (WORD Document) screen to examine work request.

The CCT-I locates the installation option of the work request on the WORD document and determines if additional work steps must be created for the Central Office Technician (i.e., DD work activities).

If the order request is for a Coordinated Installation Option, the CCT-I determines the "Appointment Time".

If No "Appointment Time" has been specified, the CCT-I contacts the Service Delivery Coordinator (SDC) via telephone to obtain an "Appointment Time".

Once the "Appointment Time" has been determined, the CCT-I builds the Central Office DD work request on the WFA-C OSSCWL (Circuit Work Location) screen specifying the requested "Appointment Time".

The CCT-I updates the WFA-DO DOSOI (Service Order Installation) screen with the "Appointment Time".

The CCT-I notifies the CORAC and LRAC of the Coordinated work request via a telephone call.

The CCT-I examines the Circuit Details portion of the WORD document for circuit design completeness.

The CCT-I sets any other pertinent Calendar (CAL) events on the WFA-C OSSLST (Order List)

The CCT-i commisses the SCR Critical Date on the WFA-C OSSOI (Order Installation) screen.

2. Verify LNO completion.

The CCT-I verifies the LNO (Central Office and/or I&M technician has completed the physical work required on the work request for DVA and DD. Typically, DVA will post automatically at the item level once all of the DVA dates have been met at the Circuit Work Location (CWL) level.

If CWLs have not been completed by the DVA date, the CCT-I notifies the Central Office to complete the CWLs.

If the physical work cannot be completed, the CCT-I posts a jeopardy against the DVA date. The current Designed Services Jeopardy process is then followed.

If a Coordinated Cut has been requested, the CCT-I will call the Co-Provider to receive and "OK" to begin work.

If the work cannot be completed on DD because the Co-Provider is not ready, the CCT-I places a "C" code reoperary against the order. The current Designed Services Jeopardy process is then followed.

If the work cannot be completed on DD because of a USW problem, the CCT-I will post the appropriate jeopardy code against the DD. The current Designed Services Jeopardy process is then followed.

The CCT-I makes the appropriate remark entries into the WFA-C OSSLOG (Work Request Log).

#### 3A. Montitor Performance Testing.

The CCT-I monitors and records the test results on the WFA-C OSSCN (Circuit Notes) screen. These test results are obtained by the Central Office testinician and the DS I&M technician testing the newly provisioned circuit. The tests performed are listed in the Test Requirement document attached

#### 3B. Complete Performance Testing.

### Customer Communications Technician - Implementor

In cases where the CCT-I is able to test, the testing is performed with the DS I&M Technician. The CCT-I records the test results on the WFA-C OSSCN (Circuit Notes) screen. The tests performed are listed in the Test Requirement document attached.

#### 4. Coordinate Cooperative Testing

The CCT-I acts as the central connect between the DS I&M technician and the Co-Provider.

The CCT-I notes the tests performed and enters the result information on the WFA-C OSSCN (Circuit Notes) screen.

The CCT-I records any pertinent remarks on the WFA-C OSSLOG (Work Request Log).

#### 5. Notify Co-Provider of order completion.

The CCT-I notifies the Co-Provider that the work request is completed.

The CCT-I informs the Co-Provider of any additional charges that will apply.

The CCT-I provides required test result information to the Co-Provider.

The CCT-I records the Co-Provider order completion connect information on the WFA-C OSSLOG (Work Request Log).

#### 6. Post order complete in WFA-C.

The CCT-I posss the Due Date complete on the WFA-C OSSOI (Order installation) screen.

The CCT-I completes any additional remarks on the WFA-C OSSLOG (Work Request Log).

The CCT-I completes any required electronic billing or rebates in WFA-C.

Disconnect

#### 1. Screen WFA-C for Order accuracy.

Screen OSSLST

Verify information on WORD document

Refer WORD document back to Designer if not accurate

Check for Co-Provider work locations involved on order

Enter note if Co-Provider involved on OSSCN

Check for remote test expability and hand-off to Designer or LNO if appropriate

Check to see if item is loaded in WFA-DI/DO

Assign Critical Dates

Enter name and number on DOISWR

#### 2. Contact Co-Provider

Notify customer work is complete

Add perunent notes to OSSCN screen

If customer is not available, enter the following information on the OSSOIZ screen

No executer contact

Telephone Number called

#### 3. Complete circuit in WFA-C

Check WFA-C OSSLST for critical events

Check DISP for PRE status

Jeopardize and escalate to accommodate customers need

Add additional billing charges

Complete order in WFA-C

Perform required tests

Contact Designer if required

### CENTRAL OFFICE RESOURCE ADMINISTRATION CENTER (CORAC)

Utilizes Work Force Administration/Dispatch In (WFA/DI) to build installation daily service order logs. Monitors and logs service order progress and completion in WFA/DI.

Re-loads and re-schedules service orders that cannot be completed.

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

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  downtime or times spent resolving internal order flow procedures are examples
  of time that is excluded.
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- The time estimates do not include any maintenance or repair times.

Subject: Re: looptimefiles
Date: Tue, 09 May 2000 16:08:27 -0700
From: "Carolyn Mills" <camills@uswest.com>
Organization: U S WEST
To: "Deffley, Daniel" <ddeffle@uswest.com>

|  | Basic Ob        |                | _1               | THE CASE IT    | - 1          | Coordinated Ins | Each Additional | Coordinated Installation with No Testing | Each Additional | Basic Installation with Consersety, T | Each Additional    | Coordinated Installation Coop Testing with Name | Fact of 11spatch |
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| CORAC LOAD SPECIALIST  |                 |                |                  |                |              |                 | 773 0177        | laten k                                  | ETPTUTURES      | SPERMINE SPERMINE                     |                    |   |                  |
| 2 WIRE OR 4 WIRE ANALOG LOOP  1. Screen Order                      | NIA             |                |                  |                | 7            | DI MERKE        | III KIN         |  |                 |                                       |                    |   | NIII.            |
| 2. Lond work request to Technician                                 | NA<br>NA<br>NA  | NA<br>NA<br>NA | 2 min<br>3 min   | 2 min<br>5 min | 2 mi<br>5 mi |                 |                 |  | NA .            | 2 min                                 | 2 min              | 2 min   |                  |
| 3 Closcout work request with Technician<br>(call in completion 3%) | NA<br>Titallah  | ΝĀ             | 3 min            | 3 min          | .3 mir       |                 |                 | · I .                                    | NA<br>NA        | 5 min                                 | 5 min              | 5 min   | 2 min<br>5 min   |
| 4. CRON'd Fallout (manual Loud 15%)                                | A CHARAC        |                |                  |                |              |                 |                 |  | - II-           | 3 min                                 | Junin<br>AAJAAN    | J min<br>Musikat                                | J min            |
| Source: Carolyn Mills  |                 |                |                  |                | ļ            | ļ               |                 |  |                 |                                       | and Positifi       | on ken ken                                      |                  |
| 9-Mny-00   |                 |                |                  |                |              |                 | 1               |  |                 | - 1                                   |                    |   |                  |
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MAY, 2000

Caplyn Mills - Staff Manager

#### LOAD RESOURCE ADMINISTRATION CENTER

Work Activity Descriptions

#### INSTALL

#### 1. Screen Work Force Adminstration Dispatch Out

Screening DOLST (WFA-DO WORK LIST)

Validate the load to ensure PLD status in WFA/DO for loadable/dispatchable work item Match & Merge work items (resolve all exceptions in WFADO fallout and exceptions) Monitor (DOLST) continuously for new work items

Balance the workload. Move resources when necessary to meet critical dates

#### Load work request to Technician

Manual build Technician Load Prioritize Technician Load Dispatch Technician Put notes in OSSLOG

#### Close-out Work Request

Create handoff ticket to other department when apply(handoff to Construction or Cable Maintenance)
Put notes in OSSLOG
Delete or Add USOC when apply
Jeopardize and escalate

#### DISCONNECT

Screen Order

#### CENTRAL OFFICE RESOURCE ADMINSTRATION CE (CORAC)

Work Activity Descriptions

#### INSTALL

#### 1.Screen Work Force Adminstration Dispatch In

Monitor the (DITTWL) screen for Provisioning work steps
Balance the workload. Move resources when necessary to meet critical dates

#### Load work request to Technician

CRON'd fallout (manual load provisioning orders)
Dispatch Technician
Prioritize Technician Load (for appointment)
Note WFAC CSSLOG via OSSRMK

#### Close-out Work Request

Create handoff ticket (handoff to another Central Office or Central Office Technician)

Note WFAC OSSLOG via OSSRMK

Jeopardize and Escalation

### LOCAL RESOURCE ADMINISTRATION CENTER (LRAC)

Utilizes Work Force Administration/Dispatch Out (WFA/DO) to build installation daily service order logs. Monitors and logs service order progress and completion in WFA/DO.

Re-loads and re-schedules service orders that cannot be completed.

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

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| FOR ALL UNBUNDLED ELEMENT               | -     |
|---|-------|
| ORDERS THAT REQUIRE DLISPATCH           |       |
| 1 Screen Order                          | 2 mm  |
| 2. Load work request to Technician      | 5 mm  |
| 3 Cioscout work request with Technician | 3 min |
|   |       |
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|   |       |
| SOURCE:                                 |       |
| Caroiva Mills - Staff Manager           |       |
| Apr-00                                  |       |

#### LRAC PROCESS DETAIL

#### Install

#### 1. Screen order.

The LRAC Load Specialist reviews the work request for any special instructions on the field dispatch.

#### 2. Load work request to DS I&M Technician.

The LRAC Load Specialist loads the work request to the DS 1&M Technician in WFA-DO.

#### 3. Close work request with DS I&M Technician.

The Load Specialist receives a call from the DS I&M Technician.

The Load Specialist updates WFA-DO with any pertinent information about the order completion.

### **INSTALLATION**

Performs necessary filed work on new orders and changes to existing service including:

- Travel to customer premises
- Cross-connect activity at feeder plant to distribution plant field locations
- Customer premises work activities to connect circuit at the network interface
- Circuit testing as required
- Order completion with LRAC

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

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- The time estimates do not include any maintenance or repair times.

#### LOOP TIMES

| DS I&M Technician   | Dask Destablishen Virst | Each Additional | Basic Installation with Performance Testing Flast | Ench Additional | Coordinated Installation with Cooperative Testing | Euch Additional   | Coordhaated Installation without Testing | Each Additional | Buste Installation with Compensative Teating First | Each Additional | Coordinated Installation/Cooperative Testing . No Disputch | Each Addittomi |
|---|-------------------------|-----------------|---|-----------------|---|-------------------|--|-----------------|--|-----------------|--|----------------|
| 2 WIRE OR 4 WIRE ANALOG LOOP  | يوسيند                  |                 | بمنطب يربيون                                      |                 | -   |                   | -  | 2               | -  | -               |  | distance       |
| 2 WIRE OR 4 WIRE ANALOG LOOP NONLOADE   | D. 🚐                    |                 |   |                 |   |                   |  |                 | -  |                 |  |                |
| BRI ISDN CAPABLE LOOP   |                         | S =             |   | 2               |   |                   |  |                 | 1000   |                 |  |                |
| DSL CAPABLE LOOP  1. Analyze order  |                         | - 12            |   | 200             | La port   | 35                |  |                 |  |                 |  |                |
| 2. Travel to end user premises  | NA                      | NA              | I mm  | 0 min           | 1 min   | 0 <del>mi</del> n | NA                                       | NA              | 1 min  | O min           | NA   | NA             |
| 3. Complete AP/SAC Point wiring (20%)   | NA                      | NA              | 21 min  | 0 min           | 21 min  | 0 min             | NA                                       | NA              | 21 min   | 0 min           | NA   | NA             |
| - Complete Service Termiani work (20%) - Complete Service Termiani work (20%) | NA                      | NA              | 13 min  | 10 min          | 13 min  | 10 min            | NA                                       | NA              | 13 min   | 10 min          | NA   | NA             |
| usiomer contact   | NA                      | NA              | 15 min  | 10 mm           | 15 min  | 10 min            | NA 1                                     | NA              | 15 min   | 10 min          | NA   | NA             |
| net CCT-I to work order   | NA                      | NA              | 5 min   | 0 min           | 5 min   | 0 min             | NA                                       | NA              | 5 min  | 0 min           | NA   | NA             |
| Sordinate with parties to work order  | NA<br>NA                | NA              | 3 min   | 0 mm            | 3 min   | 0 min             | NA                                       | NA              | 3 mm   | 0 mm            | NA   | NA             |
| 8. Complete Performance Conformance Testing                                   | NA                      | NA              | NA .  | NA              | 20 min.   | NA                | NA                                       | NA 1            | NA   | NA              | NA   | NA             |
| 9. Complete work request with Load Specialist                                 | NA                      | NA              | 15 mm   | 10 min          | 15 min  | 10 min            | NA                                       | NA              | 15 min   | 10 min          | NA   | NA             |
| DSI/DSI CAPABLE LOOP  | NA                      | NA              | 3 min   | 1 min           | 3 min   | 1 min             | NA 1                                     | NA -            | 3 min  | 1 mm            | NA   | NA             |
| Analyze orger   |                         |                 |   |                 | 7   | 5525              | The second                               |                 | -  | TARES.          |  |                |
| . Travel to end user premises   | NA<br>NA                | NA.             | 1 mm  | 0 mm            | 1 mm  | 0 mm              | NA                                       | NA              | 1 mm   | 0 mm            | NA   | NA             |
| S. Complete AP'SAC Point wiring (20%)   | NA<br>NA                | NA<br>NA        | 21 min  | 0 mm            | 21 min  | 0 min             | NA                                       | NA.             | 21 min   | 0 min           | NA .   | NA             |
| Complete Service Termizni work (20%)  | NA<br>NA                | NA NA           | 13 min  | 10 min          | 13 min  | 10 min            | NA                                       | NA              | 13 min   | 10 min          | NA   | NA             |
| Customer contact  |                         | NA NA           | 15 mm   | i0 mm           | 15 min  | 10 min            | NA NA                                    | NA .            | 15 mm :  | 10 min          | NA   | NA             |
| Contact CCT-I to work order   | NA.                     |                 | 3 min   | 0 mm            | 5 min   | O min             | NA<br>NA                                 | NA NA           | 5 min  | 0 min           | NA   | NA             |
| 7. Coordinate with parties to work order                                      | NA.                     |                 | NA.   | NA.             | 3 min<br>20 min.                                  | 0 min             | NA NA                                    | NA NA           | 3 min  | 0 min           | NA   | NA             |
| 8. Complete Performance Conformance Testing                                   | NA.                     | NA.             | 15 mm   | 10 min          | 15 min  | NA<br>10 min      | NA<br>NA                                 | NA NA           | 20 mm  | NA .            | NA   | NA             |
| 9. Complete work request with Load Specialist                                 |                         | NA              | 3 mm  | l mm            | 3 min   | l mm              | NA<br>NA                                 | NA NA           | 15 mm  | 10 mm           | NA NA  | NA             |
|   |                         |                 | - , l   |                 | Jun   | i inm             |  | NA              | 3 mm   | l min           | NA   | NA             |
| ALAN BRAEGER - STAFF MANAGER  |                         |                 |   |                 |   |                   |  |                 |  |                 |  |                |
|   |                         |                 |   |                 |   |                   |  |                 |  |                 |  |                |
| BILL RODRIGUEZ - STAFF MANAGER  |                         |                 |   |                 |   | <del></del>       |  |                 |  |                 |  |                |

Alan Braegger, Staff Manager, NCS Bill Rodriguez, Staff Manager, NCS May, 2000

#### Install

#### 1. Analyze work request.

The I&M accesses the WORD/CDOC document.

The I&M Technician determines what work requirements are associated to the assignment or equipment to the work order.

The I&M verifies the Circuit Design is accurate.

#### 2. Travel time to end user premises

Includes time to drive to Acces Point or Serving Area Interface and End User premises including service terminal as required.

#### 3. Access Point/Serving Area Interface work (as required)

Travel to AP/SAI Box.

Test and verify facilities are acceptable for service.

Place Cross-Connect.

#### 4. Service Terminal (as required)

Travel to Service Terminal

Test and verify the facilities (12) and Buried Service Wire.

Place Drop Wire termination.

#### 5. Customer contact

Notify customer at premises of work to be performed.

#### 6. Contact CCT-I to work order

Installer contacts implementor to work order.

#### 7. Coordinate with Implementor, COT, and CLEC

Time spent to gather all parties involved to work the order(s).

#### 8. Perform Required Testing

Perform technical specification/core test as required.

Includes cooperative testing with CLEC as required.

Does not include additional cooperative testing that may be requested by CLEC.

#### 9. Close work item with Dispatch.

Contact LRAC and close order.

#### INTERCONNECT SERVICE CENTER

Serves as the primary order provisioning contact for Competitive Local Exchange Carrier (CLEC) customers who purchase unbundled network elements products and services (i.e. Number Portability, Unbundled Loop, Unbundled Lineside Port, Resale) from Qwest.

The center provides end-to-end order coordination from request through order completion and serves as the primary liaison for the customer for all downstream organizations.

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- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

INTERCONNECT SERVICE CENTER
LOOP SERVICE REQUEST (LSR) PROCESS AND TIME ESTIMATES REVIEW
MAY-JUNE 2001

#### SUBJECT MATTER EXPERTS PROVIDING INPUT TO REVIEW

JOANNE GARRAMONE

STAFF MANAGER

LINDA MILES

STAFF MANAGER

SAMI HOOPER

STAFF MANAGER

MARLENE DIMANNA

STAFF MANAGER

MARK EARLY

STAFF MANAGER

CHERYLL GILLILAN

STAFF CONSULTANT - PROCESS

MARK ANDREWS

SERVICE DELIVERY COORDINATIOR

MARY ANDERSON

SERVICE DELIVERY COORDINATIOR

CRYSTAL SODERLUND

SERVICE DELIVERY COORDINATIOR

DANIEL DEFFLEY

COST ANALYST

During May and June 2001 a number of conference calls were held to conduct a review of the Interconnect Service Center LSR (Loop Service Request) process and time to issue service orders. The purpose was to assure consistency with assumptions made when estimating times for processes that pertain to unbundled element products.

Key assumptions considered include:

Forward looking process, 12-18 months if possible.

Time estimate based on average that does not include internal order flow problem solving, system down Highly skilled experience level of subject matter experts making time estimates.

Time estimates should not include supplements to initial order.

IMA flow through was addressed and flow through percentage weightings have been applied for produc that will have flow through.

**DVD JUNE 2001** 

### UNBUNDLED LOOP PROCESS, TIME ESTIMATES, PROBABILITIES

Date: June 4, 2001

From: Joann Garramone

Title: Staff Manager-Service Delivery

Interconnect Service Center

#### INSTALL

|                                  | INSTALL  |            |              |  |
|----------------------------------|--|------------|--------------|--|
| Work activity begins:            | May include these tasks:   | First      | Ea. Addl     | Probability                                      |
|                                  |  | (minutes)  | (minutes)    | of   |
|                                  | ·  |            |              | occurrence                                       |
|                                  | ·  |            | 1            | (%)  |
|                                  | Reviews LSR for completeness and accuracy, contractual           |            |              |  |
|                                  | entries (analyze request to determine co-provider, type of       |            |              |  |
| Receive LSR                      | order and installation option)                                   | 3          | ļ            | 100  |
|                                  | Verifies CFA or facility/circuit availability                    | 1          |              | 5  |
|                                  | Exchange Info-Obtain Central Office, name, address and           |            |              |  |
|                                  | office type, Access Telephone Address Guide to obtain the        |            | }            |  |
|                                  | central office address   | 4          |              | 100  |
|                                  | CPPD-lookup billing USOC's for co-provider                       | 2          |              | 100  |
|                                  | Summary Bill List-Look up BTN#, tax code, and Bill date          | 2          |              | 100  |
|                                  | Analyzes request to determine the co-provider, type of order     |            |              | 100  |
|                                  | and installation option.   | 2.5        | ŀ            | 100  |
|                                  | Verify Qwest end user Customer Service Record to determine       |            | <u> </u>     | 100  |
|                                  | if order issuance is applicable to provide the product. If       |            | •            |  |
|                                  | applicable, may include rejecting the LSR.                       | 27/4       |              |  |
|                                  |  | N/A        |              |  |
|                                  | Determine if the end user has Qwest directory advertising        | N/A        | <u> </u>     |  |
|                                  | Determine if the end user has Qwest retail contract              | N/A        |              |  |
| 7                                | Determine critical dates   | 1          |              | 100  |
| Issue appropriate forms and/or   |  |            |              | İ  |
| orders                           | If there is either directory advertising or a retail contract or |            | •            | }  |
|                                  | both, issue the order to remove the information from the         |            | Ì            |  |
|                                  | account. An estimate of 50% of the accounts will have these.     | 3          |              | 50   |
| Customer Request Management      |  |            |              |  |
| (CRM)                            | Populate required fields   | 3          | 3            | 100  |
|                                  | Type, review and submit to customer the Firm Order               |            |              |  |
| Review FOC                       | Confirmation (FOC)   | 3          |              | 100  |
| Issue service order              | Input unbundled loop order into service order processor          |            |              |  |
|                                  | (manually typing and formatting of all order for billing and     |            |              |  |
|                                  | provisioning of the loop)  | 10         | 5            | 100  |
| Service Order Analysis & Control | Ensure order is successfully distributed to the systems and is   |            |              |  |
| (SOAC/SOP)                       | ready for provisioning   | 3          | 3            | 100  |
| Call Handling                    | Includes handling calls from other departments working the       |            |              |  |
| <u> </u>                         | order.   | 5          | 1            | 60   |
| Error on Service Order (ESOI)    | Handling of problems on the LSR, provisioning issues such as     |            | -            | <del>                                     </del> |
|                                  | conditioning, facility problems, cable & pair, and typing        |            |              |  |
|                                  | problems handled by the center.                                  | 5          | 1            | 8  |
|                                  | problems handled by the contest.                                 |            | 1            | -  |
|                                  | DISCONNECT   |            | L            | <u> </u>   |
| Work activity begins:            | May include these tasks:   | Time used: | T            | <del></del>                                      |
| work activity begins.            | May melade diese asks.   | (minutes)  |              |  |
|                                  | Reviews LSR for completeness and accuracy, validate circuit      | (innates)  |              |  |
| Receive LSR                      | belongs to the co-provider                                       | 3          |              | 100  |
|                                  | Verifies existing account (accesses CSR in BOSS/CARS) and        | <u> </u>   | <del> </del> | 100  |
|                                  |  | 2          | 1            | 100  |
|                                  | obtains closing bill address if applicable                       | 2          | <b></b>      | 100  |
| Panian FOC                       | Type, review and submit to customer the Firm Order               | _          |              |  |
| Review FOC                       | Confirmation (FOC)   | 22         |              | 100  |
| Issue service order              | Input disconnect of loop order into the service order processor  |            | }            | 1  |
|                                  | (manually typing and formatting of all order for billing and     |            |              |  |
|                                  | provisioning of the loop)  | 10         | 5            | 100  |

| Customer Request Management      |  |   |   |     |
|----------------------------------|--|---|---|-----|
| (CRM)                            | Populate required fields                                       | 3 | 3 | 100 |
| Service Order Analysis & Control | Ensure order is successfully distributed to the systems and is |   |   |     |
| (SOAC/SOP)                       | ready for provisioning   | 3 | 3 | 100 |
|                                  |  |   |   |     |

The times described in this chart are for all unbundled loops. These times are based on the projected savings with the order creation by IMA and increased experience level in the ISC. IMA does not create a complete order for all types of Unbundled Loop; some manual typing is required.

The Job Title and Job Function/Account Code for the individuals performing these tasks is: SDC (Service Delivery Consultant) Job function code 6623.123

ISC Work Time for Unbundled Loops

#### Key Assumptions:

The times documented are forward looking.

The times documented here are average times.

They do not reflect problems encountered during the processing of the service order.

They do not include supplements to the initial order.

These estimates do not include any maintenance or repair time.

This process is as of today and the current functionality if IMA for ordering formatting.

IMA partial order creation. IMA wil create a portion of the service order and may vary by Unbundled Loop product.

### CONVERSIONS - Private Line to Unbundled Loop, EEL, LMC PROCESS, TIME ESTIMATES, PROBABILITIES

Date: 6-13-2001 From: Sami Hooper

Title: Staff Manager-Service Delivery

**Interconnect Service Center** 

#### INSTALL

|                                  | INSTALL  |  |           |             |
|----------------------------------|--|--|-----------|-------------|
| Work activity begins:            | May include these tasks:   | First  | Ea. Addl  | Probability |
|                                  |  | (minutes)  | (minutes) | of          |
|                                  |  |  |           | occurrence  |
|                                  |  |  |           | (%)         |
|                                  | Reviews LSR for completeness and accuracy, contractual           |  | i         |             |
|                                  | entries (analyze request to determine co-provider, type of order |  |           |             |
| Receive LSR                      | and installation option)   | 3  |           | 100         |
|                                  | Verifies CFA or facility/circuit availability                    | N/A  | N/A       | 100         |
|                                  | Exchange Info-Obtain Central Office, name, address and           |  |           |             |
|                                  | office type, Access Telephone Address Guide to obtain the        |  |           |             |
|                                  | central office address and validate end user address             | 4  |           | 100         |
|                                  | CPPD-lookup billing USOC's for co-provider                       | 2  |           | 100         |
|                                  | Summary Bill List-Look up BTN#, tax code, and Bill date          | 2  |           | 100         |
|                                  | Analyzes request to determine the co-provider, type of order     |  |           |             |
| *                                | and installation option.   | N/A  |           |             |
| -                                | Verify Qwest end user Customer Service Record to determine       |  |           |             |
|                                  | if order issuance is applicable to provide the product. If       | <b> </b>   |           |             |
|                                  | applicable, may include rejecting the LSR.                       | 2  |           | 100         |
|                                  | Determine if the end user has Qwest directory advertising        | N/A  |           |             |
|                                  | Determine if the end user has Qwest retail contract              | 2  |           | 100         |
|                                  | Determine critical dates   | 1  |           | 100         |
| Issue appropriate forms and/or   | Determine critical cates   | <u> </u>   |           | 100         |
| orders                           | If there is either directory advertising or a retail contract or | 1  |           |             |
| l                                | both, issue the order to remove the information from the         |  |           |             |
|                                  | account. An estimate of 50% of the accounts will have these.     | N/A  |           |             |
| Customer Request Management      | decount. The estimate of 50% of the account. With mayor those.   |  |           | <del></del> |
| (CRM)                            | Populate required fields   | з  | 3         | 100         |
| (CIUI)                           | Type, review and submit to customer the Firm Order               |  |           |             |
| Review FOC                       | Confirmation (FOC)   | 3  | 3         | 100         |
| Issue service order              | Input order into service order processor (manually typing and    |  |           |             |
| Issue service order              | formatting of all order for billing and provisioning )           | 10   | 5         | 100         |
| Service Order Analysis & Control | Ensure order is successfully distributed to the systems and is   |  |           |             |
| (SOAC/SOP)                       | ready for provisioning   | ] з  | 3         | 100         |
| Call Handling                    | Includes handling calls from other departments working the       |  |           |             |
| Can Handing                      | order.   | NA   | NA        | -           |
| Error on Service Order (ESOI)    | Handling of problems on the LSR, provisioning issues such as     |  |           |             |
|                                  | conditioning, facility problems, cable & pair, and typing        |  |           | •           |
|                                  | problems handled by the center.                                  | NA .   | NA        |             |
|                                  | processor amongs of the source.                                  | <del>                                     </del> |           |             |

#### **DESIGN**

- Overall responsibility for RID (Record Issue Date) completion.
- Upholding Qwest design standards
- Assigns interoffice facilities and equipment at the circuit level
- Prepares and distributes WORD (Work Order Record Detail) including DLR (Design Layout Record).
- Ensures that TIRKS (Trunks Integrated Record Keeping System) designs meet the customer expectations.
- Escalates as necessary to ensure pre-RID dates are met.
- Advises Qwest sales forces or order originators of jeopardies as they are discovered.
- Maintains TIRKS database integrity by making design changes as they occur (i.e. cable pair changes, etc.)

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  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems
  encountered during the work activities to process the service order. System
  downtime or times spent resolving internal order flow procedures are examples
  of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

| DS1, DS3 CAPABLE LOOP FEEDER SUBLOOP DS1/DS3 MANUAL PROB  DESIGN WORK ACTIVITY INSTALL             |  |
|--|--|
| FEEDER SUBLOOP  DS1/DS3  MANUAL  PROB  DESIGN  WORK ACTIVITY  INSTALL                              |  |
| DESIGN WORK ACTIVITY INSTALL   |  |
| DESIGN WORK ACTIVITY INSTALL   |  |
| WORK ACTIVITY  INSTALL   |  |
| INSTALL  |  |
| INSTALL  |  |
|  |  |
| ORDER HANDLING/SCREENING 5 0.20  |  |
| GOC ORDER LOG 6 0.20   |  |
| ENTER WA MASK 5 0.80   |  |
| PREP LOOP INPUT/DRI 15 0.75  |  |
| CIRCUIT DESIGN 30 1.00   |  |
| DISTRIBUTE WORD DOC 2 0.90   |  |
|  |  |
|  |  |
|  |  |
| DISCONNECT   |  |
| ORDER HANDLING/SCREENING 5 0.10  |  |
| GOC ORDER LOG 6 0.10   |  |
| ENTER WA MASK 5 0.10   |  |
| DISCONNECT CIRCUIT 5 0.10  |  |
| DISTRIBUTE WORD DOC 2 0.10   |  |
|  |  |
|  |  |
|  |  |
|  |  |
| NOTE:  |  |
| The time estimates and probability percentages listed are forward-looking.                         |  |
| These work activities are required to process a service request that falls out of the TIRKS system |  |
| for mechanized design.   |  |
| These are average times. The times assume the technician will not encounter problems during        |  |
| the manual process necessary to process the service request.                                       |  |
|  |  |
|  |  |
|  |  |
|  |  |
| SOURCE:  |  |
| KATHY PLATTS   |  |
| DESIGN CENTER STAFF  |  |
| 1/99   |  |
| MARCH 2000 Per Kathy Platts, these   |  |
| times and probabilities are appropriate  |  |
| for high cap loop and feeder subloop   |  |
| order processing.  |  |

}

1

#### PRIVATE LINE SERVICES

| 2. Emer WA Mask                                    |          |   |   |
|--|----------|---|---|
| Verity Facilities in TIRKS                         |          |   |   |
| Add Required Data to WA Screen                     |          |   |   |
| Venty that WA Screen Matches Service Order         |          |   |   |
| Manualiv incu: WA Screen :                         |          |   |   |
|  |          |   |   |
| 4. Disconnect Circuit                              |          |   |   |
| Check GCNOTE or PCFLOW for error                   |          |   |   |
| Resolve Facility, Assignment or Equipment Issues v | vitin CP |   |   |
| Resolve Circuit Detail Document                    |          |   |   |
| Jeopardize and Escalate Order                      |          |   |   |
|  |          |   |   |
| 5. Distribute Word Document                        |          |   |   |
| Distribute Design Document i                       | •        | : |   |
| Resolve any Distribution Errors                    |          |   |   |
| Issue DLR  |          | : | · |
| issue Word Docment                                 |          |   |   |

#### CENTRAL OFFICE

Responsible for service connection in the central office and associated testing and administrative functions. Places cross-connects (jumpers), performs cross-office testing, and provides support to field installation and control center for circuit testing as required.

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- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

#### **COTTIMES**

| 4AY, 2000  |                            |  |   |                 | :   |                |  |                 |   |                 |
|--|----------------------------|--|---|-----------------|---|----------------|--|-----------------|---|-----------------|
|  |                            |  |   |                 | :   |                |  | <del></del>     |   | <u>.</u>        |
| Central Office Technician  | Brote (Reuse) Installation | Each Addidonal   | Haste with Performance Testing Installation | Each Additional | Courdinated Installation with Cooperative Teating | Ench Additions | Caurdinated Installation with No Vesting | Ench Additional | Basic Installation with Cooperative Teating First | Each Additional |
|  |                            |  |   |                 |   |                |  | :               |   | :               |
|  |                            |  |   |                 |   |                |  | . ;             |   |                 |
| SI. DS3 CAPABLE LOOP   | 10.00                      | - 3, - 1, 1,   |   |                 |   |                |  | أنديد المرسل    | .:  | - : :           |
| S1 FEEDER SUBLOOP  | 1000                       |  |   |                 |   | -              |  | 3               |   |                 |
| . Analyze Order . Complete Cross-connect (2 - mdf & icdf)  | 5 min                      | 5 min  | 5 min                                       | 5 min           |   | 5 min          | 5 min                                    | 3 min ·         | 5 min   | 5 min           |
| Complete Coop Qualification  | 4 min                      | 4 min  | 4 min                                       | 4 min           | 4 min   | 4 min :        |  | 4 min :         |   |                 |
| Record DVA Test Results  | NA<br>NA                   | NA   | 2 min                                       | 2 min           | 2 min   | 2 min :        |  | 2 mm :          | 2 min   | 2 min           |
| Post DVA work complete in WFA-DI   | 2 min                      | NA<br>2 min  | 2 min                                       | 2 min           | 2 min   | 2 min .        | 2 min                                    | 2 min :         | 2 min   | 2 min           |
| Perform Continuity Stress testing  | NA                         | NA NA  | 2 min<br>10 min                             | 2 min           | 2 min ·   | 2 min          | 2 min                                    | 2 min           | 2 min   | 2 min           |
| Set up of DD test with I&M tech  | NA.                        | NA NA  | 2 min                                       | 10 min          | 10 mm   | 10 min :       | NA                                       | NA              | 10 min  | 10 min          |
| . Complete DD work status with CCTI  | · NA                       | NA.  | 3 min                                       | 1 min           |   | l min :        |  | NA NA           | 2 min   | 1 min           |
|  | ;                          |  |   |                 |   |                |  |                 | 3 min   | 1 11111         |
| This accumac raises of a modified distant to   | 20.1                       | o Ouslife  |   |                 |   | d for all I    | 0000 00                                  | t               |   |                 |
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| oreviously qualified for digital service.  |                            |  | cation te                                   | sts are p       | enome   |                |  | :               |   |                 |
| previously qualified for digital service.  |                            |  | cation te                                   | sts are p       | enome   |                |  |                 |   |                 |
| Central Office Technician  | Macannect Order            | Each Adultional  | cation te                                   | sts are p       | enome   |                |  | :               |   |                 |
| Central Office Technician  | eet Order                  | - Introduction of the control of the | cation te                                   | sts are p       | enome   |                |  | :               |   |                 |
| Central Office Technician  | Disconnect Order           | Each Additional  | cation te                                   | sts are p       | enome   |                |  | :               |   |                 |
| Central Office Technician  | Disconnect Order           | - Introduction of the control of the | cation te                                   | sts are p       | enome   |                |  |                 |   |                 |

#### Install

#### 1. Analyze work request.

The COT accesses the WORD/CDOC document.

The COT determines if assignments/equipment requested by the work order are available

The COT verifies the Circuit Design is complete.

#### 2. Complete Cross-Connect.

The COT places the cross-connectus) between the ICDF and the MDF or DSX frames. The type of loop ordered determines the number of cross-connect needed.

#### 3. Perform Loop Qualification

The COT performs a facility test with 77S or comparable test set.

#### 4. Record Test Results

The COT records the facility test results in the WFA-C OSSLOG

#### 5. Post work requst complete in WFA-DL

The COT accesses the DITSC screen in WFA-DI to complete the WFA-DI work request.

#### 6. Analyze Due Date work request & call CCTI

The COT analyzes WFADI work request for appointment time and tests then ealls the CCT-1 to notify they are ready to perform at location.

#### 7. Set up for Due Date tests with I&M tech. \*2

COT sets up test equipment for DD tests

#### 8. Complete work request with CCT-I. \*2

The COT calls the CCT-I to notify the physical work and testing in the Central Office has been complete.

#### 9. Complete Continuity Stress Testing

Digital pattern testing end to end over facility

\*2 = Orders with coordinated Due Date testing only

#### Disconnect

#### 1. Analyze Order.

The COT accesses the WORD/CDOC document.

The COT determines if assignments/equipment requested by the work order are accurate.

The COT verifies the Circuit Design notifies CCT-I of order maccuracy

#### L. Remove Cross-Connects.

The COT removes the cross-connect(s) between the ICDF and the MDF or DSX frames. The type of loop ordered determines the number of cross-connect that will be removed.

#### . Complete work request in WFA-DI.

The COT accesses the DITSC screen in WFA-DI to complete the WFA-DI work request.

ACRONYM

DEFINITION

CCT-1

Customer Communication Technician-Implementor

COMMITTEE COMMITTEE TO SECURICIES STREET

CDOC C1 Prep Document (Central Office version of the WORD document)

CORAC Central Office Resource Allocation Center

COT Central Office Technician
CRON Automated order to an in WFA-DI

Circuit Work Location tenen Central Office location involved on the press

Due Date Critical Date

DITSC An installation or Trouble Work Request screen in WFA-DI

DOSOI Service Order installation screen in WFA-DO

DS 12:M Technician Designed Services installation and Maintenance Technician

OSX Digital Services Cross-Connect

DVA Designed, Verified, and Assigned Critical Date
LEM Installation and Maintenance field forces
LDF Interconnector Distributing Frame

Local Network Operation (typically includes the Central Office and I&M work forces

LRAC Load Resource Administration Center

MDF Main Distributing Frame
CCC Overall Control Office

USSCN Circum Notes screen in WFA-C

255CWL Circum Work Location screen in WFA-C
255LOG Work Request Log screen in WFA-C

 OSSLST
 Order List screen in WFA-C

 OSSOI
 Order Installation screen in WFA-C

 OWDDOC
 WORD Document screen in WFA-C

SCR Scremer Critical Date
SCC Service Delivery Coordinator

USW USWEST

 in Fig.-C
 Work Force Administration-Control Module

 in Fig.-D:
 Work Force Administration-Dispatch in Module

 in Fig.-D:
 Work Force Administration-Dispatch Out Module

A ORD Document Work Order Record Detail Document

# **TAB 29**

### **IMPLEMENTOR**

Has overall control responsibility for provisioning, maintaining, coordination and testing of designed services.

Contacts other centers/technicians for the coordinated effort to complete service order activity requirements.

Tests with central office, field installation personnel as necessary. Provides test results to customer.

Notify customer of work completed

Complete order in required systems (Work Force Administration)

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems
  encountered during the work activities to process the service order. System
  downtime or times spent resolving internal order flow procedures are examples
  of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

### DS1/DS3 LOOP

|  | COSTE  | LEMENT   | COSTE   | LEMENT                        | ; COST E      | LEMENT               | COSTE      | LEMENT                                | COSTE     | LEMENT   |
|--|--|--|---|-------------------------------|---------------|----------------------|------------|---------------------------------------|-----------|----------|
|  |  |  | BASI  | NEW                           | COOR          | DINATE               | COORE      | INATED                                | BASI      | NEW      |
| DS1/DS3 CAPABLE LOOP   | BASIC<br>REUSE   |  | WITH  |                               | INSTALL W     |                      | INSTALL NO |                                       | WITH      |          |
|  |  |  | PERF TEST   |                               | COOP TST      |                      | TEST       |                                       | COOP TEST |          |
| IMPLEMENTOR  | F  | EA   | F   | EA                            | F             | EA                   | F          | EA                                    | F         | EA       |
|  | per  | order  | per (   | order                         | per           | order                | per        | order                                 | per       | order    |
| WORK ACTIVITY  |  |  |   |                               |               |                      |            |                                       |           |          |
| <u>INSTALL</u>   |  |  |   |                               |               | •                    |            |                                       |           | :        |
| SCREEN WFA FOR CIRCUIT   | 5  | 5  | 15  | 15                            | 15            | 15                   | 10         | 10                                    | 15        | 15       |
| VERIFY LNO COMPLETION  | 5  | 5  | 10  | 10                            | 10            | 10                   | 5          | 5                                     | 10        | 10       |
| COORDINATION TIME WITH CLEC, FIELD   | na   | na   | na  | na                            | 20            | na                   | na         | na                                    | na        | na       |
| PERFORMANCE/CONFORMANCE TESTING  | na   | na   | 35  | 35                            | 35            | 35                   | na         | מת                                    | 35        | 35       |
| NOTIFY CUSTOMER  | 5  | 0  | 5   | . 0                           | 5             | 0                    | 5          | 0                                     | 5         | 0        |
| COMPLETE CIRCUIT IN WEAVE  | 10   | 10   | 10  | 10                            | 10            | · 10                 | 10         | 10                                    | 10        | 10       |
|  |  |  |   |                               |               |                      |            |                                       |           | :        |
| DISCONNECT   | <del></del> -  |  |   |                               |               |                      |            |                                       |           | <u> </u> |
| SCREEN WFA FOR CIRCUIT   | 5  | 0  | 5   | 0                             | 5             | 0                    | 5          | 0                                     | 5         | : 0      |
| CONTACT CUSTOMER   | 5  | 0  | 5   | 0                             | 5             | 0                    | 5          | 0                                     |           | 0        |
| COMPLETE CIRCUIT IN WEAK   | 5  | 0  | 5   | 0                             | 5             | -0                   | 5          | 0                                     |           | 0        |
|  |  |  |   |                               |               | :                    |            | · · · · · · · · · · · · · · · · · · · |           | !        |
| They do not reflect times sper They do not reflect problems to   | nt for supple<br>with the ord  | ement to t<br>ler or rede  | the order.<br>esign issu                                      | ies.                          | · · · · · · · |                      |            |                                       |           |          |
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| They do not reflect times sper They do not reflect problems to   | nt for supple<br>with the ord<br>or trouble a<br>oct service (   | ement to the derivative of the | the order.<br>esign issu<br>n system<br>no proble             | ies.<br>s or with :           | the custo     | mer.                 | ·          |                                       |           | <u> </u> |
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#### Install

#### 1. Screen WFA-C for Order accuracy.

The CCT-I accesses the WFA-C OSSLST (Order List) screen to examine and prioritize order load by Critical Date.

The CCT-I accesses the WORD document on the OWDDOC (WORD Document) screen to examine work request.

The CCT-I locates the installation option of the work request on the WORD document and determines if additional work steps must be created for the Central Office Technician (i.e., DD work activities).

If the order request is for a Coordinated Installation Option, the CCT-I determines the "Appointment Time".

If No "Appointment Time" has been specified, the CCT-I contacts the Service Delivery Coordinator (SDC) via telephone to obtain an "Appointment Time".

Once the "Appointment Time" has been determined, the CCT-I builds the Central Office DD work request on the WFA-C OSSCWL (Circuit Work Location) screen specifying the requested "Appointment Time".

The CCT-I updates the WFA-DO DOSOI (Service Order Installation) screen with the "Appointment Time".

The CCT-I notifies the CORAC and LRAC of the Coordinated work request via a telephone call.

The CCT-I examines the Circuit Details portion of the WORD document for circuit design completeness.

The CCT-I sets any other pertinent Calendar (CAL) events on the WFA-C OSSLST (Order List) screen.

The CCT-I complete the SCR Critical Date on the WFA-C OSSOI (Order Installation) screen.

#### 2. Verify LNO completion.

The CCT-I verifies the LNO (Central Office and/or l&M technician has completed the physical work required on the work request for DVA and DD. Typically, DVA will post automatically at the item level once all of the DVA dates have been met at the Circuit

If CWLs have not been completed by the DVA date, the CCT-I notifies the Central Office to complete the CWLs.

If the physical work cannot be completed, the CCT-I posts a jeopardy against the DVA date. The current Designed Services Jeopardy process is then followed.

If a Coordinated Cut has been requested, the CCT-I will call the Co-Provider to receive and "OK" to begin work.

If the work cannot be completed on DD because the Co-Provider is not ready, the CCT-I places a "C" code jeopardy against the order. The current Designed Services Jeopardy process is then followed.

If the work cannot be completed on DD because of a USW problem, the CCT-I will post the appropriate jeopardy code against the DD. The current Designed Services Jeopardy process is then followed.

The CCT-I makes the appropriate remark entries into the WFA-C OSSLOG (Work Request Log).

#### 3A. Montitor Performance Testing.

The CCT-I monitors and records the test results on the WFA-C OSSCN (Circuit Notes) screen. These test results are obtained by the Central Office technician and the DS I&M technician testing the newly provisioned circuit. The tests performed are listed i

#### 3B. Complete Performance Testing.

In cases where the CCT-I is able to test, the testing is performed with the DS I&M Technician. The CCT-I records the test results on the WFA-C OSSCN (Circuit Notes) screen. The tests performed are listed in the Test Requirement document attached.

#### 4. Coordinate Cooperative Testing

The CCT-I acts as the central contact between the DS I&M technician and the Co-Provider.

The CCT-I notes the tests performed and enters the result information on the WFA-C OSSCN (Circuit Notes) screen.

The CCT-1 records any pertinent remarks on the WFA-C OSSLOG (Work Request Log).

#### 5. Notify Co-Provider of order completion.

The CCT-I notifies the Co-Provider that the work request is completed.

The CCT-I informs the Co-Provider of any additional charges that will apply.

The CCT-I provides required test result information to the Co-Provider.

The CCT-I records the Co-Provider order completion contact information on the WFA-C OSSLOG (Work Request Log).

#### 6. Post order complete in WFA-C.

The CCT-I posts the Due Date complete on the WFA-C OSSOI (Order installation) screen.

The CCT-I completes any additional remarks on the WFA-C OSSLOG (Work Request Log).

The CCT-I completes any required electronic billing or rebates in WFA-C.

#### Disconnect

#### 1. Screen WFA-C for Order accuracy.

Screen OSSLST

Verify information on WORD document

Refer WORD document back to Designer if not accurate

Check for Co-Provider work locations involved on order

Emer note if Co-Provider involved on OSSCN

Check for remote test capability and hand-off to Designer or LNO if appropriate

Check to see if item is loaded in WFA-DI/DO

Assign Critical Dates

Enter name and number on DOISWR

#### 2. Contact Co-Provider

Notify customer work is complete

Add pertinent notes to OSSCN screen

If customer is not available, emer the following information on the OSSO12 screen

No customer contact

Telephone Number called

#### 3. Complete circuit in WFA-C

Check WFA-C OSSLST for critical events

Check DISP for PRE status

Jeopardize and escalate to accommodate customer's need

Add additional billing charges

Complete order in WFA-C

Perform required tests

Contact Designer if required

Subject: Re: [Fwd: Collocation Transitions]
Date: Thu, 30 May 2002 14:33:50 -0500
From: Deni Toye <dtoye@qwest.com>

Organization: Qwest Corporation

To: Daniel Deffley <ddeffle@qwest.com>

Yes, if it is designed service, the Implementor would be the one to do the documentation and completion of the WFA order.

Deni

Daniel Deffley wrote:

```
> I'm ok with that for the collo study. That one is done. Now I'm referring to a
> Private Line to Unbundled Element conversions. Its mostly work in the ISC to
> change billing but was told at one time that the Design Center will have a small
> amount of work to do on these orders. Again, verifying which tech does this work.
> I currently show a designer but think it should be the implementor.
> DD
> Deni Toye wrote:
> > Hi Dan
> > This work is done by the Implementor, not the Designer. This would be when one
> > CLEC buys another CLEC collocation and the Billing name needs to change to the
>> New CLEC. This should all be flow through for the designer.
> > Mahalo,
> > Deni
> >
> > Daniel Deffley wrote:
> > > Deni,
> > Here is the memo you sent before. Just checking to see if this applies
> > > for Private Line to Unbundled Element conversions. Currently, I show
> > this work being performed by a Designer for conversions rather than an
> > > Implementor.
> > > Thanks,
> > DD
> > >
> > Subject: Re: Collocation Transitions
> > Date: Mon, 08 Apr 2002 13:22:27 -0500
> > From: Deni Toye <dtoye@qwest.com>
> > > Organization: Qwest Corporation
> > To: Daniel Deffley <ddeffle@gwest.com>
>> References: <3CB1B9E2.EBC92A48@qwest.com> <3CB1CA8A.A1F71662@qwest.com>
>>> The total time would be 5 min. If it needs to be broken down, the screening
> > would be 2 min and the closeout would be 3 min.
> > > Deni
> > >
> > > Daniel Deffley wrote:
> > >
> > > Deni
>>> Yes, please add the time per step or summarize the total time to perform
> > > > these activities.
> > > > Thanks,
> > > > Dan D.
> > > >
> > > Deni Toye wrote:
> > > >
> > > > Hi Dan,
>>>> When one company buys another companies collocations, these are the
>>>> steps that the Implementor will need to do:
>>>> 1. Screen the order
>>>> 2. Close out activities including CLEC contact and close out of WFA/C
>>>> screens with respective field completion.
>>>> Are you needing more verbiage?
> > > > Thanks,
```

```
> > > > Deni
> > > > >
>>>> --
>>>> Confidential Use Only -
> > > > Disclose and Distribute Only to Qwest Employees Having a Need to Know.
>>>> Disclosure outside of Qwest is prohibited without authorization.
> > > --
>>> - Confidential Use Only -
> > Disclose and Distribute Only to Qwest Employees Having a Need to Know.
> > Disclosure outside of Qwest is prohibited without authorization.
> > >
> > >
> > >
       Deni Toye <dtoye@qwest.com>
> > >
> > >
      Deni Toye
> > >
        <dtoye@qwest.com>
> > >
         Pager: 800-946-4646 Pin 148-1534
> > >
         Fax: 515-323-0181
> > > .
         Work: 515-286-6440
>>> Additional Information:
       Last Name
                      Toye
      First Name
> > >
                      Deni
> > >
      Version
                      2.1
> >
> > ---
> > - Confidential Use Only -
> > Disclose and Distribute Only to Qwest Employees Having a Need to Know.
>> Disclosure outside of Qwest is prohibited without authorization.
- Confidential Use Only -
Disclose and Distribute Only to Qwest Employees Having a Need to Know.
Disclosure outside of Qwest is prohibited without authorization.
```

Deni Toye <dtoye@qwest.com>

**Subject: Re: Collocation Transitions** 

Date: Mon, 08 Apr 2002 13:22:27 -0500 From: Deni Toye <a href="mailto:ctoye@qwest.com">ctoye@qwest.com</a>

Organization: Qwest Corporation

To: Daniel Deffley <ddeffle@qwest.com>

The total time would be 5 min. If it needs to be broken down, the screening would be 2 min and the closeout would be 3 min.

Deni

Daniel Deffley wrote:

```
> Yes, please add the time per step or summarize the total time to perform
> these activities.
> Thanks.
> Dan D.
> Deni Toye wrote:
> > Hi Dan,
> > When one company buys another companies collocations, these are the
> > steps that the Implementor will need to do:
>> 1. Screen the order
>> 2. Close out activities including CLEC contact and close out of WFA/C
> > screens with respective field completion.
> >
> > Are you needing more verbiage?
> > Thanks.
> > Deni
> >
> > --
> > - Confidential Use Only -
> > Disclose and Distribute Only to Qwest Employees Having a Need to Know.
>> Disclosure outside of Qwest is prohibited without authorization.
```

- Confidential Use Only - Disclose and Distribute Only to Qwest Employees Having a Need to Know. Disclosure outside of Qwest is prohibited without authorization.

Deni Toye < dtoye@qwest.com>

# **TAB 30**

## LOCAL RESOURCE ADMINISTRATION CENTER (LRAC)

Utilizes Work Force Administration/Dispatch Out (WFA/DO) to build installation daily service order logs. Monitors and logs service order progress and completion in WFA/DO.

Re-loads and re-schedules service orders that cannot be completed.

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

Subject: Unbundled Loop Costing
Date: Mon, 10 May 1999 07:13:37 -0700

From: "Diane Kinkel" <dkinkel@uswest.com>

Organization: U S WEST Communications. Inc
To: Daniel Deffley <ddeffle@uswest.com>
CC: Paul Kinneberg <pkinneb@uswest.com>

Attached is the Unbundled Loop costing information. Diane Kinkel

| FOR ALL HICAP UNBUNDLED                  |      |
|--|------|
| ELEMENT ORDERS THAT REQUIRE              | -    |
| i. Screen Order                          | 2 mm |
| 2. Load work request to Technician       | 5 mm |
| 3. Closeout work request with Technician | 3 mm |
| Complete work in WFA/DO                  | 3 mm |
|  | -    |
|  |      |
|  |      |
|  |      |
|  |      |
|  |      |
|  |      |
|  |      |
|  | -    |
| SOURCE:                                  |      |
| Diane Kinkel - Staff Manager May-99      |      |
| Caroivn Mills - Staff Manager April-00   |      |
|  |      |

#### Install

#### 1. Screen order.

The LRAC Load Specialist reviews the work request for any special instructions on the field dispatch.

#### 2. Load work request to DS I&M Technician.

The LRAC Load Specialist loads the work request to the DS I&M Technician in WFA-DO.

#### 3. Close work request with DS I&M Technician.

The Load Specialist receives a call from the DS I&M Techniquan.

The Load Specialist updates WFA-DO with any pertinent information about the order completion.

#### 4. Complete work request in WFA-DO.

The LRAC Load Specialist completes the work request in WFA-DO

# **TAB 31**

### **INSTALLATION**

Performs necessary filed work on new orders and changes to existing service including:

- Travel to customer premises
- Cross-connect activity at feeder plant to distribution plant field locations
- Customer premises work activities to connect circuit at the network interface
- Circuit testing as required
- Order completion with LRAC

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

| DS I&M Technician  2 WIRE OR 4 WIRE ANALOG LOOP | Busic fastallution Flast | Each Additional | Basic Installation with Performance Testing First | Each Additional | Consilinated Installation with Conperative Testing | Each Additional | Coordinated Installation without Testing | Euch Additional | Dasic Installation with Cooperative Testing First | Each Additional |
|---|--------------------------|-----------------|---|-----------------|--|-----------------|--|-----------------|---|-----------------|
| 2 WIRE OR 4 WIRE ANALOG LOOP NON! OADE          | 10 mm.                   |                 |   |                 |  | -               | 700                                      | 27              |   | 6 × ×           |
| BRI ISDN CAPABLE LOOP                           |                          |                 |   |                 |  |                 |  |                 | 20-20   |                 |
| DSL CAPABLE LOOP                                | 2                        |                 |   | 222             |  |                 |  |                 |   |                 |
| 1. Analyze order                                | NA                       | NA              | l min   | Sancery E       | 1000   | E-277, 201      |  |                 |   |                 |
| 2. Travel to end user premises                  | NA                       | NA NA           | 21 min  | 0 min           | 1 min  | 0 min           | NA ·                                     | NA              | 1 min   | 0 min           |
| 5. Complete AP/SAC Point wiring (20%)           | NA                       | NA NA           | I3 min  | C min           | 21 min   | 0 min           | NA ·                                     | NA              | 21 min  | 0 min           |
| 4. Complete Service Termiani work (20%)         | NA                       | NA              | 15 min  | 10 min          | 13 min   | 10 min          | NA                                       | NA              | 13 min  | 10 min          |
| ustomer contact                                 | NA                       | NA              | 5 min   | 0 min           | 15 min   | 10 min          | NA                                       | NA              | 15 min  | 10 min          |
| Contact CCT-I to work order                     | NA                       | NA              | 3 min   | 0 mm            | 5 min  | 0 min           | NA                                       | NA              | 5 min   | 0.min           |
| coordinate with parties to work order           | NA                       | NA              | NA NA   | NA              | 3 min  | 0 min           | NA                                       | NA              | 3 min   | 0 min           |
| Complete Performance Conformance Testing        | NA                       | NA              | 15 min  | 10 min          | 20 min.  | NA              | NA                                       | NA              | NA  | NA              |
| 9. Complete work request with Load Specialist   | NA                       | NA              | 3 min   | 1 min           | 15 min   | 10 min          | NA                                       | NA              | 15 min  | 10 min          |
| DSI/DS3 CAPABLE LOOP                            | 70.0                     |                 |   | -               | 3 mm.  | 1 min           | NA                                       | NA              | 3 min   | 1 min           |
| 1. Analyze order                                | NA I                     | NA              | 1 min   | O min           |  |                 |  |                 | 3.00  |                 |
| 2. Travel to end user premises                  | NA-                      | NA              | 21 min  | 0 min           | 21 min   | 0 min           | NA I                                     | NA 1            | 1 min   | 0 min           |
| 3. Complete AP/SAC Point wiring (20%)           | NA                       | NA              | 13 min  | 10 min          | 13 min   | 0 min           | NA                                       | NA              | 21 min i  | 0 min           |
| Complete Service Termiani work (20%)            | NA I                     | NA              | 15 min  | 10 min          | 15 min   | 10 min          | NA                                       | NA              | 13 min (  | 10 min          |
| Customer contact                                | NA                       | NA              | 5 min   | 0 min           | 5 min  | 10 min          | NA                                       | NA NA           | 15 min (  | 10 min          |
| 5. Contact CCT-I to work order                  | NA                       | NA              | 3 min   | 0 min           | 3 min  | 0 min           | NA                                       | NA              | 5 min 1   | 0 mm            |
| Coordinate with parties to work order           | NA I                     | NA              | NA  | NA              | 20 min.  | 0 min           | NA                                       | NA              | 3 min .   | 0 min           |
| B. Complete Performance/Conformance Testing     | NA                       | NA              | 15 min  | 10 min          | 15 min   | NA I            | NA NA                                    | NA              | 20 min ;  | NA.             |
| Complete work request with Load Specialist      | NA I                     | NA              | 3 min   | 1 min           | 3 min  | 10 min          | NA                                       | NA              |   | 10 min          |
|   |                          |                 |   |                 |  | i min           | NA                                       | NA              | 3 min :   | l min           |
| LAN BRAEGER - STAFF MANAGER                     |                          | •               |   |                 |  |                 | !  |                 | :   |                 |
| III PULLET COLOR                                |                          |                 |   |                 |  | 1               |  | :               | :   | 1               |
| BILL RODRIGUEZ – STAFF MANAGER<br>MAY, 2000     |                          |                 |   |                 |  |                 |  |                 |   |                 |

Alan Braegger, Staff Manager, NCS Bill Rodriguez, Staff Manager, NCS May, 2000

#### Install

#### 1. Analyze work request.

The I&M accesses the WORD/CDOC document.

The I&M Technician determines what work requirements are associated to the assignment or equipment to the work order.

The L&M verifies the Circuit Design is accurate.

#### 2. Travel time to end user premises

Includes time to drive to Acces Point or Serving Area Interface and End User premises including service terminal as required.

#### 3. Access Point/Serving Area Interface work (as required)

Travel to AP/SAI Box.

Test and verify facilities are acceptable for service.

Place Cross-Connect.

#### 4. Service Terminal (as required)

Travel to Service Terminal

Test and verify the facilities (f2) and Buried Service Wire.

Place Drop Wire termination.

#### 5. Customer contact

Notify customer at premises of work to be performed.

#### 6. Contact CCT-I to work order

Installer contacts implementer to work order.

#### 7. Coordinate with Implementor, COT, and CLEC

Time spent to gather all parties involved to work the order(s).

#### 8. Perform Required Testing

Perform technical specification/core test as required.

includes cooperative testing with CLEC as required.

Does not include additional cooperative testing that may be requested by CLEC.

#### 9. Close work item with Dispatch.

Contact LRAC and close order.

# **TAB 32**

### INTERCONNECT SERVICE CENTER

Serves as the primary order provisioning contact for Competitive Local Exchange Carrier (CLEC) customers who purchase unbundled network elements products and services (i.e. Number Portability, Unbundled Loop, Unbundled Lineside Port, Resale) from Qwest.

The center provides end-to-end order coordination from request through order completion and serves as the primary liaison for the customer for all downstream organizations.

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- ◆ The time estimates and probability of occurrence are forward-looking. If possible, a 12-18 month time horizon should be considered. Anticipated process efficiencies and/or mechanization are examples of forward-looking assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

INTERCONNECT SERVICE CENTER
LOOP SERVICE REQUEST (LSR) PROCESS AND TIME ESTIMATES REVIEW
MAY-JUNE 2001

#### SUBJECT MATTER EXPERTS PROVIDING INPUT TO REVIEW

JOANNE GARRAMONE

STAFF MANAGER

LINDA MILES

STAFF MANAGER

SAMI HOOPER

STAFF MANAGER

MARLENE DIMANNA

STAFF MANAGER

MARK FARLY

STAFF MANAGER

CHERYLL GILLILAN

STAFF CONSULTANT - PROCESS

MARK ANDREWS

SERVICE DELIVERY COORDINATIOR

MARY ANDERSON

SERVICE DELIVERY COORDINATION

CRYSTAL SODERLUND

SERVICE DELIVERY COORDINATIOR

DANIEL DEFFLEY

COST ANALYST

During May and June 2001 a number of conference calls were held to conduct a review of the Interconnect Service Center LSR (Loop Service Request) process and time to issue service orders. The purpose was to assure consistency with assumptions made when estimating times for processes that pertain to unbundled element products.

Key assumptions considered include:

Forward looking process, 12-18 months if possible.

Time estimate based on average that does not include internal order flow problem solving, system down Highly skilled experience level of subject matter experts making time estimates.

Time estimates should not include supplements to initial order.

IMA flow through was addressed and flow through percentage weightings have been applied for produc that will have flow through.

**DVD JUNE 2001** 

### $\S UB$ LOOP UNBUNDLED DISTRIBUTION & FEEDER LOOP PROCESS, TIME ESTIMATES, PROBABILITIES

Date: June-2001 From: Linda Miles

Title: Staff Manager-Service Delivery

Interconnect Service Center

#### INSTALL.

|                                  | INSTALL   |            |             |             |
|----------------------------------|---|------------|-------------|-------------|
| Work activity begins:            | May include these tasks:  | First      | Ea. Addl    | Probability |
|                                  |   | (minutes)  | (minutes)   | of          |
|                                  |   | ,          | , , , , , , | оссителсе   |
|                                  |   |            |             | (%)         |
|                                  | Reviews LSR for completeness and accuracy, contractual                                    |            |             |             |
|                                  | entries (analyze request to determine co-provider, type of order                          |            |             |             |
| Receive LSR                      | and installation option)  | 3          |             | 100         |
|                                  | Verifies CFA or facility/circuit availability   | n/a        |             |             |
|                                  | Exchange Info-Obtain Central Office, name, address and                                    |            |             |             |
|                                  | office type, Access Telephone Address Guide to obtain the                                 |            |             | l           |
|                                  | central office address  | 4          | 1           | 100         |
|                                  | CPPD-lookup billing USOC's for co-provider  | 2          |             | 100         |
|                                  | Summary Bill List-Look up BTN#, tax code, and Bill date                                   | 2          |             | 100         |
|                                  | Analyzes request to determine the co-provider, type of order                              |            |             |             |
|                                  | and installation option.  | 2.5        |             | 100         |
|                                  | Verify Qwest end user Customer Service Record to determine                                |            |             | 100         |
|                                  | if order issuance is applicable to provide the product. If                                |            |             |             |
|                                  | applicable, may include rejecting the LSR.  | N/A        |             |             |
|                                  | Determine if the end user has Qwest directory advertising                                 | N/A        |             |             |
|                                  | Determine if the end user has Qwest retail contract                                       | N/A        |             |             |
|                                  | Determine critical dates  | N/A        | <del></del> |             |
| Issue appropriate forms and/or   |   | IVA        |             |             |
| orders                           | If there is either directory advertising or a retail contract or                          |            |             |             |
| orders .                         | both, issue the order to remove the information from the                                  |            |             |             |
|                                  | account. An estimate of 50% of the accounts will have these.                              | N/A        |             |             |
| Customer Request Management      | account. An estimate of 50% of the accounts will have these.                              | IN/A       | -           |             |
| (CRM)                            | Populate required fields  | . 3        | 2           | 100         |
| (CRM)                            | Type, review and submit to customer the Firm Order  | . 3        | 3           | 100         |
| Review FOC                       | Confirmation (FOC)  | 2          |             | 100         |
| Issue service order              | Input unbundled loop order into service order processor                                   | 3          |             | 100         |
| issue service order              | 1 "   |            |             |             |
|                                  | (manually typing and formatting of all order for billing and                              | 10         | _           | 100         |
| S P-d Ad P-Cont1                 | provisioning of the loop)  Ensure order is successfully distributed to the systems and is | 10         | 5           | 100         |
| Service Order Analysis & Control | 1   |            | _           |             |
| (SOAC/SOP)                       | ready for provisioning  | 3          | 3           | 100         |
| Call Handling                    | Includes handling calls from other departments working the                                | _          |             |             |
|                                  | order.  | 5          | 1           | 60          |
| Error on Service Order (ESOI)    | Handling of problems on the LSR, provisioning issues such as                              | •          |             |             |
|                                  | conditioning, facility problems, cable & pair, and typing                                 | _          | _           | _           |
|                                  | problems handled by the center.   | 5          | 1           | 5           |
|                                  | DICCONDITION  |            |             |             |
|                                  | DISCONNECT  |            |             |             |
| Work activity begins:            | May include these tasks:  | Time used: |             |             |
|                                  | D i IOD C   | (minutes)  |             |             |
|                                  | Reviews LSR for completeness and accuracy, validate circuit                               | _          |             |             |
| Receive LSR                      | belongs to the co-provider  | 3          |             | 100         |
|                                  | Verifies existing account (accesses CSR in BOSS/CARS) and                                 | _          |             |             |
|                                  | obtains closing bill address if applicable  | 2          |             | 100         |
|                                  | Type, review and submit to customer the Firm Order  | _          |             |             |
| Review FOC                       | Confirmation (FOC)  | 2          |             | 100         |
| Issue service order              | Input disconnect of loop order into the service order processor                           |            |             |             |
|                                  | (manually typing and formatting of all order for billing and                              |            |             |             |
|                                  | provisioning of the loop)   | 10         | 5           | 100         |
| Customer Request Management      |   |            |             |             |
| (CRM)                            | Populate required fields  | 3          | 3           | 100         |

| Service Order Analysis & Control | Ensure order is successfully distributed to the systems and is |   |   |     |
|----------------------------------|--|---|---|-----|
| (SOAC/SOP)                       | ready for provisioning   | 3 | 3 | 100 |
|                                  |  |   |   |     |

#### Key Assumptions:

The times documented are forward looking.

The times documented here are average times.

They do not reflect problems encountered during the processing of the service order.

They do not include supplements to the initial order.

These estimates do not include any maintenance or repair time.

This process is as of today and the current functionality if IMA for ordering formatting.

# **TAB 33**

## LOOP PROVISIONING CENTER (LPC)

Utilizing the Facility Assignment Control System (FACS), ensures customer service order activity is provisioned with outside plant and central office facilities. FACS automatically processes the order with the facilities assignments.

Assignment Consultants are responsible for FACS component exception messages. A Request for Manual Assistance (RMA) is generated when all conditions for a customer service cannot be met. The assignment consultant resolves the RMA and the order is placed back into the system.

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

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- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

Subject: LPC info

Date: Wed, 16 May 2001 07:44:25 -0500

From: "Jeanette S. Cainic" < jcain@uswest.com>

To: ddeffle@uswest.com

Dan,

Better late than never. Sorry this took so long - no excuses, just busy. Everything has been concurred in by Diane Diebel's staff (LPC Process) so, feel very comfortable with this letter. No changes to times/dollars, they felt the Specials flow through rate was still a good average even though they have some months that hit the low 70ties.

I've changed some of the text as we've done more automation of RMAs.

Good Luck,

Jeanette

າີlpc01.doc

Name: lpc01.doc

Type: Winword File (application/msword)

Encoding: base64

May 10, 2001

TO: Dan Deffley

FROM: Jeanette S. Cain

IT Development-FACS

(402) 422-8319

RE: Loop Provisioning Center (LPC) Service Order Flow Through Rates and Error Resolution

Times

The LPC is responsible for ensuring customer service order activity is provisioned with outside plant and central office facilities in a timely and accurate manner. The Facility Assignment Control System (FACS) which is comprised of components; Service Order Analysis and Control (SOAC), Position Analysis Workstation (PAWS), Loop Facilities Assignment and Control (LFACS) and SWITCH is the provisioning application supported by the LPC. Assignment Consultants are the employees responsible for FACS component exception messages.

Brief descriptions of the FACS components are;

SOAC - maintains control and status information on all service order requests, as well as the input image and certain data resulting from processing. This system interfaces with the service order processor (SOP) and the other service provisioning systems. SOAC generates assignment requests to LFACS for outside plant and to SWITCH for central office facilities. After assignments are made, SOAC receives responses from LFACS and SWITCH, merges and formats this data into a service order assignment section and automatically returns it to the SOP. SOAC sends the formatted assignments to Work Force Administration/Dispatch Out (WFA/DO). For switched customer service requests SOAC sends the telephone number, office equipment and features to MARCH for translation to the physical switch.

PAWS - a software system linked to SOAC to receive messages on service order activity. The primary function of PAWS is to distribute exception messages to Assignment Consultants for resolution.

LFACS - maintains a mechanized inventory of outside plant facilities (i.e., customer addresses, cables, cable pairs, cross box and customer serving terminals, assembled loops and loop makeup) and assigns the outside plant facilities to assignment requests received from SOAC. LFACS also generates work sheets for cable transfers and reconcentrations. These activities are updated mechanically upon notification of completion. In addition, LFACS is used to make repair changes to working customer service.

SWITCH - used to inventory and assign central office switching equipment and related facilities i.e., range extension equipment, tie pairs and bridge lifters. Assignment requests are received from SOAC after successful LFACS assignments are made.

When all conditions for a customer service request cannot be met by the FACS components a Request for Manual Assistance (RMA) is generated. An RMA indicates service order processing has been stopped. The RMA identifies the reason the service order cannot be automatically processed, the FACS component that failed processing and provides an image of the customer service request.

All RMAs are sent from SOAC to PAWS. PAWS places the RMAs into a 'next work package' queue. Assignment Consultants using an intelligent work station (IWS) terminal access PAWS to retrieve RMAs for resolution. Assignment Consultants are trained to resolve all RMA types for all

service requests. Meaning, they can resolve exception messages for POTS, non-designed specials, specials and Wholesale product/services(s) service order activity. The objective for RMA resolution per Assignment Consultant is forty (40) per day.

U S WEST has developed two (2) applications which utilize artificial intelligence to resolve various RMAs The applications are ARMAR (Automatic RMA Resolution) and APP (Automated Provisioning Platform). ARMAR is used to resolve working left-in RMAs. APP resolves RMAs which are a result of, exact match for address cannot be found, no available/compatible cable facilities, restricted terminals and loop makeup not available. These applications have reduced the number of RMAs sent to Assignment Consultants for resolution. Assignment Consultants will get these RMAs only if the artificial intelligence applications cannot resolve.

FACS flow through objectives have been established for, total customer service requests, special service orders and artificial intelligence (mechanical) applications. The **overall flow through objective** is based on total service order volume that includes; POTS, non-designed specials, coin, specials, Wholesale product/service(s) and artificial intelligence applications. **Individual flow through objectives** have been established for Special Services (orders provisioned in TIRKS) and artificial intelligence RMA resolution. **No individual flow through objectives** have been established for POTS, non-designed specials, coin or Wholesale product/service(s). The flow through and RMA objectives consider all order activity types: inward, outward and change as well as, single and multi-line requests. There is a single objective for Assignment Consultant RMA resolution, this objective does not differentiate between type of customer service requests (inward, outward, change) or number of lines per requests.

The following summarizes the flow through (FT) and Assignment Consultant objectives for 2001:

|                             | 2001             |
|-----------------------------|------------------|
| Overall FT*                 | 85%              |
| Special Services FT         | 60%              |
| Mechanical FT               | 85%              |
| Assignment Consultant       | 40 RMA's per day |
| Avg clearing time per RMA** | 11.25 min        |

<sup>\*</sup>POTS flow through is included in this objective, there is no individual objective for POTS.

The flow through and Assignment Consultant objectives as well as average clearing time are based on all service order activity types; inward, outward and change. Specific objectives have not been established for inward/change or outward activity

<sup>\*\*</sup>Average clearing time per RMA includes all activity types; inward, outward and change as well as single and multi-line requests.

Subject: Re: Loop NRC Process

Date: Tue, 04 Dec 2001 11:20:22 -0600
From: Jeanette Cain < jcain@qwest.com>
Organization: Owest Information Technologies

To: Daniel Deffley <ddeffle@qwest.com>, dgolleh@qwest.com

CC: rstrunk@gwest.com, jcain@gwest.com

Dan Doug

Thought I'd send you an email of what I said on the call this morning;

When U S WEST (Qwest) began work on Competive Provisioning of Unbundled Loops we first looked at what order flow, POTS vs Designed, would be the most efficient/effective. When the decision was made to use the Designed flow we then looked at the provisioning systems, (SOAC, LFACS & SWITCH) involved and used by the LPC, to determine if enhancements were needed to obtain optimum flow through. There was never an intent to have 100% flow through, this is literally impossible but, we wanted to make certain we could get as high a precent as possible. This is the same practice we use for Qwest retail product deployment.

No major software changes were needed in the provisioning applications. SOAC required modifications to support order writing and product deployment. The changes were in SOAC site tables, some of these tables are updated by Telcordia (six week turnaround) and others are updated by Qwest FACS SYAD, to add FIDs and USOCs. LFACS and SWITCH required no changes.

The main reasons for fallout in the provisioning applications are;

- 1) invalid input from the CLEC e.g., end user address or product request
- 2) no facilities available that meet the qualifications for the CLEC product requested e.g., CLEC

requests loop with no bridge tap or load coil and spare facilities do not meet this criteria

- 3) no compatible, spare facilities available
- 4) compatible facilities are automatically assigned however, there is no available loop makeup

for the loop assigned (loop makeup is such items as; cable gauge, length, bridge tap, loading)

Actions taken by LPC when these conditions occurred;

- 1) return the order to the ISC for verification with Co-Provider
- 2 & 3) attempt to locate compatible facilities using the 11 step delayed order process. If

unable to locate then enter the order in RTT (Referral Tracking Tool) as a delayed order (held order)

- 4) the error is automatically routed to the Design Advisory Group (DAG) to enter the loop make up
- for the loop assigned to the order. Once the DAG enters the information the order will

automatically be re-stared through the systems and continue on to design.

The LPC would follow the same processes for fallout with designed orders for Retail,

the only exception is verification on input errors (#1) would not go to ISC but, to a Qwest market unit.

There is a web site that tracks volume associcated with these errors unfortunately, cannot differeniate between Wholesale or Retail counts. Further, the LPC doesn't care whether the fallout is Wholesale or Retail their measurement is to resolve in today out today fallout. If volume of fallout exceeds what LPC can handle in a day then, the fallout is prioritized by due date.

Jeanette S. Cain (402) 422-8319

#### Daniel Deffley wrote:

```
> Attached is the file I referred to on my voice message.
> The conference call is scheduled for 10:00 central, Tue, Dec. 4
> Call in # 877-591-8687
> Conf. id # 325-1015
> Your attendance or a representative from your center is critical.
> Once again, the critical need is to defend Qwest nonrecurring cost with
> regard to service order processing and provisioning of unbundled loop
> and other elements. At this time the focus is on centers that touch the
> order due to fall out or other manual provisioning requirements. ISC
> issues will be addressed separately.
> Dan Deffley
> Cost Analyst
> 402-422-7281 (currently voice message only)
                                     Name: AZ NRC QWEST-ATT ANALYSIS.xls
    AZ NRC QWEST-ATT ANALYSIS.xls
                                    Type: Microsoft Excel Worksheet (application/vnd.ms-excel)
                                  Encoding: base64
```

Jeanette Cain <<u>jcain@uswest.com</u>>
Staff IT Analyst
IT
Software Development

## **TAB 34**

### LOCAL RESOURCE ADMINISTRATION CENTER (LRAC)

Utilizes Work Force Administration/Dispatch Out (WFA/DO) to build installation daily service order logs. Monitors and logs service order progress and completion in WFA/DO.

Re-loads and re-schedules service orders that cannot be completed.

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

#### TIME ESTIMATES LOAD SPECIALIST SUBLOOP PROBABLITY DISTRIBUTION SUBLOOP PER ORDER 0= ITEM WORK ACTIVITY CCCURRENCE INSTALL 1 SREEN ORDER 2 20% 2 2 LOAD WORK REQUEST/TECH LOAD SYSTEM 20% 5% CLOSE-OUT ORDER WITH TECH

#### **ASSUMPTIONS**

The process and time estimates are forward-looking to year end 2000.

The times documented above are average estimates. The times are in minutes.

The times represent a U S West average.

They do not reflect times spent for a supplement to the order.

They do not reflect problems with the order or redesign issues.

They do not reflect problems or trouble at test, with systems or with the customer.

All times are based on a service order and no problems encountered at test & turnup.

Attached are the functions associated with the steps performed by the Load Resource Specialist.

TIME ESTIMATE SOURCES - Subject Matter Expens TERRY MEEHAN - STAFF MANAGER

PROFILE COMPLETED 2/2000

Subject: Unbundled Loop Costing

Date: Mon, 10 May 1999 07:13:37 -0700

From: "Diane Kinkel" <dkinkel@uswest.com>

Organization: U S WEST Communications, Inc

To: Daniel Deffley <ddeffle@uswest.com> CC: Paul Kinneberg <pkinneb@uswest.com>

Attached is the Unbundled loop costing information.

APPLY TO FEEDER SUBLOOP PER PRODUCT TEAM

DVD Jun (200)

|  | •     |
|--|-------|
| FOR ALL HICAP UNBUNDLED                  |       |
| ELEMENT ORDERS THAT REQUIRE              |       |
| 1. Screen Order                          | 2 min |
| 2. Load work request to Technician       | 5 min |
| 3. Closeout work request with Technician | 3 min |
| 4. Complete work in WFA/DO               | 3 min |
|  |       |
|  |       |
|  |       |
|  |       |
|  |       |
|  |       |
|  |       |
|  |       |
|  |       |
| SOURCE:                                  |       |
| Diane Kinkei - Staff Manager Mav-99      |       |
| Carolyn Mills - Staff Manager April-00   |       |
|  |       |

# Install

1. Screen order.

The LRAC Load Specialist reviews the work request for any special instructions on the field dispatch.

2. Load work request to D5 I&M Technician.

The LRAC Load Specialist loads the work request to the DS I&M Technician in WFA-DO.

3. Close work request with DS I&M Technician.

The Load Specialist receives a call from the DS I&M Technician.

The Load Specialist updates WFA-DO with any pertinent information about the order completion.

4. Complete work request in WFA-DO.

The LRAC Load Specialist completes the work request in WFA-DO

# **TAB 35**

# INSTALLATION

Performs necessary filed work on new orders and changes to existing service including:

- Travel to customer premises
- Cross-connect activity at feeder plant to distribution plant field locations
- Customer premises work activities to connect circuit at the network interface
- Circuit testing as required
- Order completion with LRAC

# TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If possible, a 12-18 month time horizon should be considered. Anticipated process efficiencies and/or mechanization are examples of forward-looking assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

## TIME ESTIMATES

|      | FIELD INSTALLER                            | SUBLOOOP | PROBABILITY | SUBLOOOP  | PROBABILITY |
|------|--|----------|-------------|-----------|-------------|
|      | DISTRIBUTION SUBLOOP                       | FIRST    | OF.         | EACH ADDL | <b>0</b> =  |
| ITEM | WORK ACTIVITY                              |          | OCCURRENCE  |           | OCCURRENCE  |
|      | INSTALL                                    |          |             |           |             |
| 1    | INITIAL TRAVEL TO FCP & END USERS PREMISES | 21       | 100%        | na        | NA          |
| 2    | SAI - FIELD CONNECTION POINT ACTIVITY      | 13       | 100%        | 5         | 100%        |
| 3    | PERFORM PREMISES ACTIVITIES                | 35       | 30%         | 10        | 30%         |
| 4    | TESTING AND TURNUP                         | 20       | 30%         | 5         | 30%         |
| 5    | CLOSE ORDER in field acces system/wiado    | 3        | 100%        | na<br>-   | NA          |
|      | ·  |          |             |           |             |

# DISCONNECT

FIELD TECH NOT DISPATCHED ON DISCONNECT ORDERS

# **ASSUMPTIONS**

The process and time estimates are forward-looking to year end 2000.

The times documented above are average estimates. The times are in minutes.

The times represent a U S West average.

They do not reflect times spent for a supplement to the order.

They do not reflect problems with the order or redesign issues.

They do not reflect problems or trouble at test, with systems or with the customer.

All times are based on a service order and no problems encountered at test & turnup.

Attached are the functions associated with the steps performed by the installer

- \* Item 3 assumes 70% of orders will be for re-use (existing customers)
- \* Item 4 includes additional travel to and from field connection point and end user premises to perform continuity testing.

TIME ESTIMATE SOURCES - Subject Matter Experts
TERRY MEEHAN - STAFF MANAGER

PROFILE COMPLETED 2/2000

|  |                     | <del> </del>  | r              | 1                 |              |          |
|--|---------------------|---------------|----------------|-------------------|--------------|----------|
|  |                     |               |                |                   |              |          |
|  |                     | 1             |                | }                 | ĺ            |          |
| Work Activity Descrip  | otions              | 1             | 1              | 1                 |              |          |
|  | 1                   |               |                |                   |              |          |
| INSTALL  | ·· [                |               |                |                   |              |          |
|  | er's Premis         | 65            |                | ***************** |              |          |
|  |                     |               | L              |                   | l            | l        |
| i ravei time, incitidini   | <u>1 iiwe enton</u> | e to a Acce   | ss Point or    | Serving Are       | ea Control I | ocation. |
| 1  | 1                   |               |                |                   |              |          |
|  |                     |               |                |                   |              | ~~~~~~   |
| 2. AP/SAC Point W  | ork                 |               |                |                   |              |          |
| Physically place nece  | SSALV CLOSS         | connect       |                |                   |              |          |
| Tryotoday place iida   | 1                   |               |                |                   |              |          |
| 3. Perform Premise   | s Activities        | ,             |                |                   |              |          |
| Discussing work to be  | completed           | with custon   | 167.           |                   |              |          |
|  |                     |               |                |                   |              |          |
|  |                     | o for circuit | İnetallatları  |                   |              | ·        |
| Lettottt minib activit   | 100 11000000        | y ioi circuit | 11121911911011 | ·                 |              |          |
| 4. Testing   |                     |               |                |                   |              |          |
| Test with Implement  | r or COT as         | necessary     | lo assure w    | orkina circu      | ii.          |          |
|  | 1                   |               |                |                   |              |          |
| 5. Close Order with  | Load Spece          | ilist         |                |                   |              |          |
|  |                     |               |                |                   |              |          |
| Test with implementer or COT as necessary to assure working circuit.  5. Close Order with Load Specallist Contact Dispatch to close out order.  DISCONNECT No installer time charged to order activity for disconnect. |                     |               |                |                   |              |          |
|  |                     |               |                |                   |              |          |
|  | .],                 | l             |                |                   |              |          |
|  |                     |               |                |                   |              |          |
| If dispalched, purpos  |                     | e equipme     | 11.            |                   |              |          |
| Time charged to x co   | des.                |               |                |                   |              |          |

|  |                     | <del> </del>  | r              | 1                 |              |          |
|--|---------------------|---------------|----------------|-------------------|--------------|----------|
|  |                     |               |                |                   |              |          |
|  |                     | 1             |                | }                 | ĺ            |          |
| Work Activity Descrip  | otions              | 1             | 1              | 1                 |              |          |
|  | 1                   |               |                |                   |              |          |
| INSTALL  | ·· [                |               |                |                   |              |          |
|  | er's Premis         | 65            |                | ***************** |              |          |
|  |                     |               | L              |                   | l            | l        |
| i ravei time, incitidini   | <u>1 iiwe enton</u> | e to a Acce   | ss Point or    | Serving Are       | ea Control I | ocation. |
| 1  | 1                   |               |                |                   |              |          |
|  |                     |               |                |                   |              | ~~~~~~   |
| 2. AP/SAC Point W  | ork                 |               |                |                   |              |          |
| Physically place nece  | SSALV CLOSS         | connect       |                |                   |              |          |
| Tryotoday place iida   | 1                   |               |                |                   |              |          |
| 3. Perform Premise   | s Activities        | ,             |                |                   |              |          |
| Discussing work to be  | completed           | with custon   | iei.           |                   |              |          |
|  |                     |               |                |                   |              |          |
|  |                     | o for circuit | İnetallatları  |                   |              | ·        |
| Lettottt minib activit   | 100 11000000        | y ioi circuit | 11121911911011 | ·                 |              |          |
| 4. Testing   |                     |               |                |                   |              |          |
| Test with Implement  | r or COT as         | necessary     | lo assure w    | orkina circu      | ii.          |          |
|  | 1                   |               |                |                   |              |          |
| 5. Close Order with  | Load Spece          | ilist         |                |                   |              |          |
|  |                     |               |                |                   |              |          |
| Test with implementer or COT as necessary to assure working circuit.  5. Close Order with Load Specallist Contact Dispatch to close out order.  DISCONNECT No installer time charged to order activity for disconnect. |                     |               |                |                   |              |          |
|  |                     |               |                |                   |              |          |
|  | .],                 | l             |                |                   |              |          |
|  |                     |               |                |                   |              |          |
| If dispalched, purpos  |                     | e equipme     | 11.            |                   |              |          |
| Time charged to x co   | des.                |               |                |                   |              |          |

# TIME ESTIMATES

| ITEM | FIELD INSTALLER INTRA Building DISTRIBUTION SUBLOOP WORK ACTIVITY | SUBLOOOP<br>FIRST<br>minutes | PROBABILITY  OF  OCCURRENCE | SUBLOOOP<br>EACH ADDL<br>minutes | PROBABILITY  OF  OCCURRENCE |
|------|---|------------------------------|-----------------------------|----------------------------------|-----------------------------|
|      | <u>INSTALL</u>  |                              |                             |                                  |                             |
| 1    | INITIAL TRAVEL TO END USERS PREMISES                              | 21                           | 100%                        | na                               | NA                          |
| 2    | LOCATE ASSOCIATED BUILDING TERMINAL OR TERMINALS                  | 10                           | 100%                        | NA                               | NA                          |
| 3    | PERFORM ANAC IDENTIFICATION AND RUN CROSS CONNECTS                | 5                            | 100%                        | 5                                | 100%                        |
| 4    | TESTING AND TURNUP  | 5                            | 100%                        | 5                                | 100%                        |
| - 5  | CLOSE ORDER in field acces system/wfado                           | 3                            | 100%                        | па                               | NA                          |
|      |   | 1                            |                             |                                  |                             |
|      |   |                              |                             |                                  |                             |

# DISCONNECT

FIELD TECH NOT DISPATCHED ON DISCONNECT ORDERS

# **ASSUMPTIONS**

The process and time estimates are forward-looking.

The times documented above are average estimates. The times are in minutes.

The times represent a U S West average.

They do not reflect times spent for a supplement to the order.

They do not reflect problems with the order or redesign issues.

They do not reflect problems or trouble at test, with systems or with the customer.

All times are based on a service order and no problems encountered at test & turnup.

Attached are the functions associated with the steps performed by the Installer

SOURCE TERRY MEEHAN - STAFF MANAGER May-01

| DS I&M Technician                          | DSI PEEDER SUBLOOP FIRST | DSI FEEDER SUBLOOP EACH ADDITIONAL, |
|--|--------------------------|-------------------------------------|
| EEDER SUBLOOP (DS1)                        |                          |                                     |
| . Analyze order<br>. Travel time           | 1 min                    | 0 min                               |
| . Complete Serving Area Interface wiring   | 21 min                   | 0 min                               |
| Complete Field Connection Point wiring     | 13 min                   | 10 min                              |
| Contact CCT-I to work order                | 13 min                   | 10 min                              |
| Complete Performance Conformance Testing   | 3 min                    | 0 min                               |
| Complete work request with Load Specialist | 15 min<br>3 min          | 10 min                              |
|  |                          | 1 min                               |

ALAN BRAEGER - STAFF MANAGER BILL RODRIGUEZ - STAFF MANAGER MAY, 2000 Alan Braegger, Staff Manager, NCS Bill Rodriguez, Staff Manager, NCS May, 2000

## Install

# 1. Analyze work request.

The I&M accesses the WORD/CDOC document.

The I&M Technician determines what work requirements are associated to the assignment or equipment to the work order.

The I&M verifies the Circuit Design is accurate.

## 2. Travel time

Includes time to drive to Acces Point or Serving Area Interface and End User premises including service terminal as required.

# 3. Complete Serving Area Interface wiring

Test and verify facilities are acceptable for service.

Place Cross-Connect.

# 4. Complete Field Connection Point wiring

Test and verify the facilities at FCP

Place Cross-Connect.

# 6. Contact CCT-I to work order

Installer contacts implementor to work order.

# 7. Coordinate with Implementor, COT, and CLEC

Time spent to gather all parties involved to work the order(s).

# 8. Perform Required Testing

Perform technical specification/core test as required.

Includes cooperative testing with CLEC as required.

Does not include additional cooperative testing that may be requested by CLEC.

# 9. Close work item with Dispatch.

Contact LRAC and close order.

# **TAB 36**

Subject: CPMC LABOR HOUR ESTIMATES PER JOB ORDER FROM ORDER RECIEPT TO QUOTE DELIVERY

Date: Fri, 30 Nov 2001 13:30:47 -0600

From: "Joseph Borrini" <iborrin@gwest.com>

Organization: U S WEST Communications, Inc

To: Daniel Deffley <ddeffle@qwest.com>
CC: Brooke Bale <bbale@gwest.com>

Dan,

If I understand your request correctly here are our averages from order reciept to quote delivery:

Clec application is sent to the CPMC order validation person via email. The email is recorded and then reviewed for correctness and then audited for validation. The steps involved are to review Clec contracts and Fed and state 271 requirements as it pertains to the specific Clec and the job order type. Once validated the CPMC inputs the application information into a database, establishes required and key installation, delivery and completion dates. Notification of these dates are distributed to all necessary wholesale and engineering departments. The application is distributed as well. A 48 hour call is optional for the Clec and is arranged if requested. 25 to 50% of the time this call is requested. Change orders are also handled and updated by the CPMC. Handle Clec and wholesale and engineering Q&A. Average validation time is 120 minutes.

Quote team verifies schedule of quote for the job and verifies Clec contract and state cost dockets to cost element pricing. Builds template for quote preparation and prepares both nonrecurring and recurring quote for the Clec. Prepare billing and establish USOC element identifiers. email quote to Clec and copies for billing groups and wholesale. Maintain archives file for quotes for each Clec for each state. Maintain library for Clec contracts, SGAT and Telric pricing documents, and state and FCC cost docket requirements. Handle engineering, wholesale and Clec Q&A.

Average quote time is 60 minutes.

Total time average is 3 hours. Note: this does not include the billing and collection activity for the job nor are we including the CPMC feasibility and followup for job completion and deviation followup and reporting. Data base reporting is also not included. thx, joe

# Special Construction Group

Date:

3 March 2001

Memo To:

Dan Deffley

cc:

Benjamin Campbell

From:

Earlene E. Skinner

SUBJECT:

Field Connection Point Inquiry Fee Timelines

If you have any further questions regarding the following information, I can be reached on (303)792-4461.

# Outside Plant Tactical Planner Activities

- On receipt of Request, review records for existence of Feeder Distribution Interface (FDI) at the address requested. (1 hour each request)
- Review capacity of FDI in available databases. (1 hour each request)
- Review databases for planned work activities affecting available capacity in FDI. (1 hour each request)
- Based on information that is provided on Request Form, determine and verify appropriate Field Engineering contacts. (1/2 hour each request)
- Prepare work package for Field Engineer site visit and distribute. (I hour each request)

# Special Construction Group

- Review Field Engineering notes for completeness. Resolve discrepancies with the Field Engineer then forward notes to Special Construction Group. (3 hours each request)
- Track and escalate as required, to ensure that time frames are met. (1/2 hour each request)

# Field Engineer Activities

- On receipt of Request, review with Tactical Planner for completeness and clarify issues on requirements (1 hour each request)
- Make site visit to verify information contained in databases and determine work operations and
  materials required to satisfy the Customer's request. This site visit may include but is not
  limited to: driving to the site, opening the FDI to inspect existing equipment, contacting local
  permitting authorities to determine requirements for increasing the size of the l'DI, contacting
  private property owners if a private easement is involved, working with other utilities to
  determine location of their facilities, preparing field notes to document work required. (5 hours
  each request)
- Forward field notes and other pertinent information to Tactical Planner. Review notes with Tactical Planner. (2 hours each request)

Subject: Cost Doc for FCP Reclassification Date: Fri. 29 Mar 2002 12:02:08 -0700

From: Carla Campbell < cxcamp3@qwest.com>

Organization: Qwest Corporation

To: bbale <bbale@uswest.com>

CC: Daniel Deffley <ddeffle@qwest.com>, Benjamin Campbell <box>boxampb@qwest.com>,

Stacy Hartman <sscrogh@qwest.com>

Brooke, Will you look over this Cost Document and let me know if you have any questions. If it looks good to you let me know so Dan Deffley can officially use this doc.

Thanks, Carla

CPMC FCP COST DOC.xls

Name: CPMC FCP COST DOC.xls

**Type:** Microsoft Excel Worksheet (application/vnd.ms-excel)

Encoding: base64

Carla Campbell < cxcamp3@qwest.com>

Qwest Project Manager CO, MT and WY



| Collocation Project Management Center (CPMC)   | Orig. Issue |
|--|-------------|
| FCP RECLASSIFICATION COLLOCATION   | 4/03/02     |
|  |             |
| WORK ACTIVITIES FOR PROCESSING A FCP RECLASSIFICATION REQUEST  | Time - min. |
| Receive request place in file on Desktop   | 1.0         |
| Check for previous requests at this address  | 5.0         |
| Review Clec's contract and 271 requirements  | 30.0        |
| Check Application for errors   | 15.0        |
| 48 hour call with Clec (optional)  | 30.0        |
| Creates Facesheet  | 5.0         |
| Compose and forward E-mail to SICM, CPMC PM. WPM   | 2.0         |
| Shared time for common phone calls, meetings, reports,   | 10.0        |
| Print copy of Application  | 1.0         |
| Print copy of e-mail to ATR  | 1.0         |
| Create physical folder and file  | 3.0         |
| Enter request data into COMET  | 7.0         |
| Interesting the manufacture of t | 2.0         |
| Place copy of e-mail in physical folder  | 2.0         |
| File physical folder   | 2.0         |
| Total time   | į.          |
|  | 116.0       |
|  |             |
|  |             |
| WORK FOR PROCESSING AN FEASIBILITY   |             |
| Abtain files from validation group   | 2.0         |
| Contact CPMC Project Manager   | 1.0         |
| Receive OSP feasibiltiy from CPMC Project Managers   | 1.0         |
| Print OSP feasibility out and File   | 2.0         |
| Create reasibility rotti   | 5.0         |
| Email Feasibility to Cust, WPM, SICM   | 2.0         |
| Print email  | 1.0         |
| File email and hard copy in Job Folder and File job away   | 3.0         |
| Total time   |             |
|  | 17.0        |
|  |             |
|  |             |
|  |             |
| WORK FOR PROJECT MANAGER   |             |
| Receive job from validation  | 1.0         |
| Download application to file   | 1.0         |
| Complete OSP facesheet   | 5.0         |
| Find OSP person from wirecenter  | 5.0         |
| Email to OSP Tactical Planner with attachments   | 2.0         |
| Print out and put in file  | 2.0         |
| Check CPD for job entered  | 3.0         |
| Input into comet the actual CPD date   | 3.0         |
| Receive Feasibility from OSP TP check for accuracy   | 3.0         |
| Send Feasibility to Feasibility team   | 2.0         |
| Receive CPD costing tool from OSP TP   | 2.0         |
| Print out and put in file  | 2.0         |
| Update Comet   | 3.0         |
| Send CPD costing tool to Quote Team  | 2.0         |

| Collocation Project Management Center (CPMC)  | Orig. Issue       |
|---|-------------------|
| FCP RECLASSIFICATION COLLOCATION  | 4/03/02           |
| Receive job prints from OSP TP  | 1.0               |
| Check for accuracy and file   | 5.0               |
| Fax prints to SICM  | 5.0               |
| Check Job Finder to make sure prints went to CMC  | 5.0               |
| Receive OSP Preliminary APOT  | 3.0               |
| Check for accuracy  | 5.0               |
| Print out and put in file   | 2.0               |
| Send to WPM and SICM  | 2.0               |
| Update Comet  | 3.0               |
| Receive notification of job completion from CMC   | 2.0               |
| Print out and put in file   | 2.0               |
| Receive Final Apot from OSP   | 2.0               |
| Check for accuracy and file   | 5.0               |
| Type out Notification Letter of Job completion  | 10.0              |
| Type out Collocation Acceptance letter  | 3.0               |
| Email notification letter to CLEC, SICM, WPM  | 2.0               |
| Email Collocation Acceptance Letter to SICM   | 2.0               |
| Status job complete in Comet and update Fields  | 2.0               |
| Receive Walkthrough from SICM file into folder  | 5.0               |
| Forward Final Apot when final payment received  | 3.0               |
| Update Comet  | 3.0               |
|   |                   |
| T-4-14:   |                   |
| Total time  | <del></del>       |
|   | 107.0             |
|   |                   |
|   |                   |
|   |                   |
|   |                   |
|   |                   |
| WORK FOR CPMC BILLING   |                   |
| Track payment through bart  | 2.0               |
| Calculate new install complete dates and RFS dates  | 5.0               |
| Email to CLEC   | 2.0               |
| File in job folder  | 2.0               |
| Update Comet database   | 2.0               |
| File in job folder  | 2.0               |
| The in job rolder   |                   |
| Total time  |                   |
|   | 15.0              |
|   |                   |
|   |                   |
|   | ,                 |
| WORK FOR CPMC QUOTE TEAM  |                   |
|   | 1.0               |
|   | 3.0               |
| Check Funding Document with application   | 5.0               |
|   | 5.0               |
| Verifies Quote contract and State cost Dockets  | 15.0              |
| WORK FOR CPMC QUOTE TEAM  Verifies schedule of Quote Receive Funding Document and file Check Funding Document with application Check application to ensure accuracy | 3.0<br>5.0<br>5.0 |

| Collocation Project Management Center (CPMC)  | Orig. Issue   |
|---|---------------|
| FCP RECLASSIFICATION COLLOCATION  | 4/03/02       |
| Builds Template for Quote for reaccuring and nonreacurring charges                      | 10.0          |
| Email Quote to Clec and copies to Wholesale and Billing Dept                            | 15.0          |
| File Quote in file folder   | 2.0           |
| Update Comet database   | : 5.0         |
|   | 1             |
|   |               |
| Total time  |               |
|   | 010           |
|   | 64.0          |
|   |               |
| Discription of the Process for CPMC   |               |
| CPMC receives the Collocation order through the Validation Team and they hand it off to |               |
| the Feasibility Team. It then goes to the State Project Manager. The State Project      |               |
| Manager monitors the job to completion. The Quote and Billing Teams will coordinate     |               |
| with the State Project Manager to assure the Quote and Bills are sent and monitored on  |               |
| thier set timeliines.   |               |
|   | ;             |
|   |               |
|   |               |
|   |               |
|   |               |
|   |               |
| Total time for the CPMC Process for the FCP Reclassification                            |               |
|   | 319.0 minutes |

# **TAB 37**

# **DESIGN**

- Overall responsibility for RID (Record Issue Date) completion.
- Upholding Qwest design standards
- Assigns interoffice facilities and equipment at the circuit level
- Prepares and distributes WORD (Work Order Record Detail) including DLR (Design Layout Record).
- Ensures that TIRKS (Trunks Integrated Record Keeping System) designs meet the customer expectations.
- Escalates as necessary to ensure pre-RID dates are met.
- Advises Qwest sales forces or order originators of jeopardies as they are discovered.
- Maintains TIRKS database integrity by making design changes as they occur (i.e. cable pair changes, etc.)

# TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

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- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

# DESIGN

# Unbundled Network Elements Local Interconnection Service Time Estimate, Service Order Work Activities Process

Kathy Plans - Staff Manager in the Designed Services Center (Des Moines) is the Subject Matter Expert that compiled and provided the time estimates, probabilities, and work activity descriptions for Unbundled Loops. Subloop, UDIT, EUDIT, EEL, Dark Fiber elements.

Kay Gruebel - Staff Manger, Designed Services Center (Des Moines) compiled and provided the time estimates and work activity descriptions for LIS, Unbundled Switching, and CCSAC elements.

Conference calls with Staff Managers and interviews with Design Technicians were conducted to review the work activities, assign time estimates, and assign flow through percentages for unbundled network elements.

Latest review made May, 2000

Subject Matter Experts contributing to results:
Kathy Platts - Staff Manager Designed Services. Des Moines
Dave Olson - Manger Designed Services Methods, Seattle
Denis Robison - Staff Manager Designed Services. Salt Lake City
Kay Gruebel - Staff Manager Designed Services. Des Moines
Design Technicians, Des Moines. Salt Lake City

|   | COST ELEMENT     |                  |               |             |             |
|---|------------------|------------------|---------------|-------------|-------------|
| DS1, DS3 CAPABLE LOOP                     |                  | %                | =             |             | <del></del> |
| FEEDER SUBLOOP                            | DS1/DS3          | MANUAL           |               |             |             |
| FEEDER SUBLOOP                            | טטווטט           | PROS             |               |             |             |
| 550/01                                    |                  | PRUB             |               |             |             |
| DESIGN                                    |                  |                  |               |             |             |
| WORK ACTIVITY                             |                  |                  |               |             |             |
| INSTALL                                   |                  |                  |               |             |             |
| ORDER HANDLING/SCREENING                  | 5                | 0.20             |               |             |             |
| GOC ORDER LOG                             | 5                | 0.20             |               |             |             |
| ENTER WA MASK                             | 5                | 0.80             |               |             |             |
| PREP LOOP INPUT/DRI                       | 15               | 0.75             |               |             |             |
| CIRCUIT DESIGN                            | 30               | 1.00             |               |             |             |
| DISTRIBUTE WORD DOC                       | 2                | . 0.90           | ·:            |             |             |
|   |                  |                  |               |             |             |
|   |                  |                  |               |             |             |
|   |                  |                  |               |             |             |
| DISCONNECT                                |                  |                  |               |             |             |
| ORDER HANDLING/SCREENING                  | 5                | : 0.10           |               |             |             |
| IGCC ORDER LOG                            | 6                | 0.10             |               |             |             |
| ENTER WA MASK                             | 5                | 0.10             |               |             |             |
| DISCONNECT CIRCUIT                        | 5                | . 0.10           |               |             |             |
| DISTRIBUTE WORD DOC                       | 2                | . 0.10           |               |             |             |
|   |                  |                  |               | :           |             |
|   | :                |                  | :             |             |             |
|   | ,                | :                |               | •           |             |
|   |                  |                  |               |             |             |
| NOTE.                                     |                  |                  |               | :           |             |
| The time estimates and probability perce  | ntages listed a  | re forward-loc   | oking.        |             |             |
| These work activites are required to proc | ess a service r  | equest that fa   | alls out of t | he TIRKS sy | stem        |
| for mechanized design.                    |                  |                  | :             |             |             |
| These are average times. The times ass    | ume the techn    | ician will not e | encounter     | propiems au | nng.        |
| the manual process necessary to proces    | s the service re | equest.          |               |             |             |
|   |                  |                  |               | :           |             |
|   |                  |                  |               |             |             |
|   |                  |                  |               |             |             |
|   | :                |                  |               |             |             |
| SOURCE.                                   |                  |                  |               |             |             |
| KATHY PLATTS                              |                  |                  | :             |             |             |
| DESIGN CENTER STAFF                       |                  |                  | ·             | <del></del> |             |
| 1/99                                      |                  |                  | ,             |             |             |
| MARCH 2000 Per Kathy Platts, these        |                  | :                | :             |             |             |
| times and propabilities are appropriate   |                  |                  |               | •           |             |
| for nigh cap loop and feeder subloop      |                  |                  |               | :           | ٠           |
| order processing.                         |                  |                  |               | •           |             |

( )

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# **IMPLEMENTOR**

Has overall control responsibility for provisioning, maintaining, coordination and testing of designed services.

Contacts other centers/technicians for the coordinated effort to complete service order activity requirements.

Tests with central office, field installation personnel as necessary. Provides test results to customer.

Notify customer of work completed

Complete order in required systems (Work Force Administration)

# TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

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  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

|  | COOT                                    |   |   |                                 |                                 |                                 |                                |                                |                                 |                                 |
|--|---|---|---|---------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|
|  | COSTE                                   | LEMENT  | COST  | LEMENT                          |                                 | LEMENT                          | COSTE                          | LEMENT                         | COST                            | LEMENT                          |
| UNBUNDLED LOOP   | ВА                                      | SIC   | CONFO   | ORM TST                         | ŧ                               | D INST<br>P TST                 |                                | D INST<br>TST                  | I                               | C WITH                          |
| IMPLEMENTOR<br>WORK ACTIVITY   | F<br>per c                              | EA  | F   | EA<br>order                     | F<br>per                        | EA<br>order                     | F<br>per d                     | EA                             | F                               | EA<br>order                     |
| INSTALL SCREEN WFA FOR CIRCUIT VERIFY LNO FOR CIRCUIT VERIFY LNO COMPLETION COORDINATION TIME WITH CLEC, FIELD PERFORMANCE/CONFORMANCE TESTING NOTIFY CUSTOMER COMPLETE CIRCUIT IN WFA/C                           | 5<br>na<br>5<br>na<br>na<br>10          | 5<br>na<br>5<br>na<br>na<br>0                         | 15<br>10<br>na<br>na<br>15<br>5                 | 15<br>10<br>na<br>na<br>15<br>0 | 15<br>10<br>na<br>20<br>15<br>5 | 15<br>10<br>na<br>20<br>15<br>0 | 10<br>na<br>5<br>na<br>na<br>5 | 10<br>na<br>5<br>na<br>na<br>0 | 15<br>10<br>na<br>na<br>15<br>5 | 15<br>10<br>na<br>na<br>15<br>0 |
| DISCONNECT<br>SCREEN WFA FOR CIRCUIT<br>CONTACT CUSTOMER<br>COMPLETE CIRCUIT IN WFA/C  | <u>5</u> <u>5</u> <u>5</u>              | 5<br>0<br>5   | 5<br>5  | 5<br>0<br>5                     | 5 5                             | 5<br>0<br>5                     | 5 5                            | 5<br>0<br>5                    | 5<br>5<br>5                     | 5<br>0<br>5                     |
| NOTE: The times documented above are They do not reflect times spent for They do not reflect problems with They do not reflect problems or tr All times are based on a perfect s Each loop is ordered individually | the order<br>ouble at the<br>service or | nent to the<br>r or redes<br>est, with t<br>der and n | e order.<br>Ign issue<br>systems o<br>o problem | or with the                     | custome                         | er.<br>Iest & turr              | nup.                           |                                | - · ·                           | ···<br>·                        |
| Altached are the functions associ  |   | – –   | perform   | ed by the                       | Impleme                         | ntor.                           |                                |                                | ,                               |                                 |
| DATE 03/08/01<br>Review 3/01 Deni Toye, Mariene Mirian   |   |   |   |                                 |                                 |                                 |                                |                                |                                 |                                 |

# Customer Communications Technician - Implementor

## Install

# 1. Screen WFA-C for Order accuracy.

The CCT-I accesses the WFA-C OSSLST (Order List) screen to examine and prioritize order load by Critical Date.

The CCT-I accesses the WORD document on the OWDDOC (WORD Document) screen to examine work request.

The CCT-I locates the installation option of the work request on the WORD document and determines if additional work steps must be created for the Central Office Technician (i.e., DD work activities).

If the order request is for a Coordinated Installation Option, the CCT-I determines the "Appointment Time".

If No "Appointment Time" has been specified, the CCT-I contacts the Service Delivery Coordinator (SDC) via telephone to obtain an "Appointment Time".

Once the "Appointment Time" has been determined, the CCT-I builds the Central Office DD work request on the WFA-C OSSCWL (Circuit Work Location) screen specifying the requested "Appointment Time".

The CCT-I updates the WFA-DO DOSOI (Service Order Installation) screen with the "Appointment Time".

The CCT-I notifies the CORAC and LRAC of the Coordinated work request via a telephone call.

The CCT-I examines the Circuit Details portion of the WORD document for circuit design completeness.

The CCT-I sets any other pertinent Calendar (CAL) events on the WFA-C OSSLST (Order List) screen.

The CCT-I complete the SCR Critical Date on the WFA-C OSSOI (Order Installation) screen.

2. Verify LNO completion.

The CCT-I verifies the LNO (Central Office and/or I&M technician has completed the physical work required on the work request for DVA and DD. Typically, DVA will post automatically at the item level once all of the DVA dates have been met at the Circuit Work Location (CWL), level.

If CWLs have not been completed by the DVA date, the CCT-I notifies the Central Office to complete the CWLs.

If the physical work cannot be completed, the CCT-I posts a jeopardy against the DVA date. The current Designed Services Jeopardy process is then followed.

If a Coordinated Cut has been requested, the CCT-I will call the Co-Provider to receive and  ${}^{\circ}$ OK $^{\circ}$  to begin work.

If the work cannot be completed on DD because the Co-Provider is not ready, the CCT-I places a "C" code reopardy against the order. The current Designed Services Jeopardy process is then followed.

If the work cannot be completed on DD because of a USW problem, the CCT-1 will post the appropriate recoparty code against the DD. The current Designed Services Jeopardy process is then followed.

The CCT-I makes the appropriate remark entries into the WFA-C OSSLOG (Work Request Log).

# 3A. Montitor Performance Testing.

The CCT-I monitors and records the test results on the WFA-C OSSCN (Circuit Notes) screen. These test results are obtained by the Central Office technician and the DS I&M technician testing the newly provisioned circuit. The tests performed are listed in the Test Requirement document attached

# 3B. Complete Performance Testing.

# Customer Communications Technician - Implementor

In cases where the CCT-I is able to test, the testing is performed with the DS I&M Technician. The CCT-I records the test results on the WFA-C OSSCN (Circuit Notes) screen. The tests performed are listed in the Test Requirement document attached.

# 4. Coordinate Cooperative Testing

The CCT-I acts as the central contact between the DS I&M technician and the Co-Provider.

The CCT-I notes the less performed and enters the result information on the WFA-C OSSCN (Circuit Notes) screen.

The CCT-I records any pertinent remarks on the WFA-C OSSLOG (Work Request Log).

## 5. Notify Co-Provider of order completion.

The CCT-I notifies the Co-Provider that the work request is completed.

The CCT-I informs the Co-Provider of any additional charges that will apply.

The CCT-I provides required test result information to the Co-Provider.

The CCT-I records the Co-Provider order completion contact information on the WFA-C OSSLOG (Work Request Log).

# 6. Post order complete in WFA-C.

The CCT-I posts the Due Date complete on the WFA-C OSSOI (Order Installation) screen.

The CCT-I completes any additional remarks on the WFA-C OSSLOG (Work Remost Log).

The CCT-I completes any required electronic billing or rebates in WFA-C.

### Disconnect

# 1. Screen WFA-C for Order accuracy.

Screen OSSLST

Verify information on WORD document

Refer WORD document back to Designer if not accurate

Check for Co-Provider work locations involved on order

Emer note if Co-Provider involved on OSSEN

Check for remote test capability and hand-off to Designer or LNO if appropriate

Check to see if item is loaded in WFA-DI/DO

Assign Critical Dates

Enter name and number on DOISWR

## 2. Contact Co-Provider

Notify customer work is complete

Add pertinent notes to OSSCN screen

If customer is not available, emer the following information on the OSSOI2 screen

No customer contact

Telephone Number called

### 3. Complete circuit in WFA-C

Check WFA-C OSSLST for critical events

Check DISP for PRE status

Jeopardize and escalate to accommodate customer's need

Add additional billing charges

Complete order in WFA-C

Perform required tests

Contact Designer if required

# **TAB 38**

# **CENTRAL OFFICE**

Responsible for service connection in the central office and associated testing and administrative functions. Places cross-connects (jumpers), performs cross-office testing, and provides support to field installation and control center for circuit testing as required.

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Subject: COT Time and Definitions

Date: Thu, 11 May 2000 11:55:29 -0700

From: "Steven Hilleary" <shillea@uswest.com>

To: ddeffle@uswest.com

Attached are the changes we discussed for the CC times.

I have added the Due Date operations to coordinate and setup circuit testing with an outside technician. These will only apply to circuit with this testing requested. The other changes reflect the split of co-implementation steps as discussed.

Steve Hilleary CO Staff 253-597-5214

# COT TIMES

| Sieve HillearyL STAFF MANAGER<br>MAY, 2000   | <del></del>                |                 |                        | _:              | :                             |                 | <del></del>                              |                 |                                     |                 |
|--|----------------------------|-----------------|------------------------|-----------------|-------------------------------|-----------------|--|-----------------|-------------------------------------|-----------------|
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|  | Sasic (Reuse) Installation | Each Additional |                        | Fach Additional | Installation with Cooperative | Each Additional | <u> </u>                                 | Each Additional | 1                                   | Ench Adultional |
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| 1, DS3 CAPABLE LOOP  |                            |                 |                        |                 | ·                             | :<br>!<br>————  |  |                 | :                                   | i<br>•          |
| 1 FEEDER SUBLOOP   | -                          |                 | 12. 22                 | 122             |                               | يوني والجاراء   | 5-4- <u>1</u> 11                         | عبد وحد         |                                     | .7              |
| Analyze Order  | 5 min                      | · 5 min         | : 5 min                | 5 min           | 5                             |                 |  |                 | ,                                   |                 |
| Complete Cross-connect (2 - mdf & icdf)  | : 4 min                    | 4 min           | . 4 min                | 4 min           | 5 min 4 min                   |                 | ! 5 min .                                |                 | 5 min                               | 5 mir           |
| Complete Loop Qualification  | · NA                       | NA              | 2 min                  | 2 min           | 2 min                         | 4 min           | 4 min !                                  | 4 min           | 4 min                               | 4 mir           |
| Record DVA Test Results  | NA                         | . NA            | 2 min                  | 2 min           |                               | 2 min           | 2 min                                    | 2 min           | 2 min                               | 2 min           |
| Post DVA work complete in WFA-DI   | : 2 min                    | : 2 min         | 2 min :                | 2 min           | 2 min                         | 2 min<br>2 min  | 2 min<br>2 min                           | 2 min           | 2 min                               | 2 min           |
| Perform Continuity Stress testing Set up of DD test with I&M tech  | : NA                       | · NA            | 10 min                 | 10 min :        |                               | 10 min          |  | 2 min           | 2 min                               | 2 min           |
| Complete DD work status with CCTI  | . NA                       | NA              | 2 min .                | l min           | 2 min :                       | 1 min           | NA                                       | NA NA           | 10 min                              | 10 mii          |
| work states with CC11  | NA                         | NA.             | 3 min .                | l min :         |                               | 1 min           | NA NA                                    | NA              | 2 min                               | 1 min           |
|  | !                          |                 |                        | :               | •                             |                 | ****                                     | NA              | 3 min (                             | 1 min           |
| This   | :                          |                 |                        |                 |                               |                 |  |                 | <u> </u>                            |                 |
|  |                            |                 |                        |                 |                               |                 |  |                 | :                                   |                 |
| viously qualified to distribute digital k  | op. Loo                    | Qualific        | ation tes              | ts are p        | erformed                      | for all I       | OODS DOL                                 |                 |                                     |                 |
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| rius assumes reuse of a qualified digital k<br>viously qualified for digital service.                      | oop. Loop                  | Qualific        | ation tes              | ts are p        | erformed                      | for all I       | oops not                                 |                 |                                     |                 |
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|  | ct Order                   | Additional      | ation tes              |                 | erformed                      |                 |  | :               | :                                   |                 |
| entral Office Technician   |                            | Hidonal         | ation tes              |                 | erformed                      |                 |  | :               | :                                   |                 |
| entral Office Technician   | ct Order                   | nch Additional  | ation tes              |                 | erformed                      |                 |  | :               | :                                   |                 |
| entral Office Technician   | Disconucci Order           | Ench Additional | ation tes              |                 | erformed                      |                 |  | :               | :                                   |                 |
| entral Office Technician   | ct Order                   | Ench Additional | ation tes              |                 | erformed                      |                 |  | :               | :                                   |                 |

# Install

# 1. Analyze work request.

The COT accesses the WORD/CDOC document

The COT determines if assignments/equipment requested by the work order are available

The COT verifies the Circuit Design is complete.

# 2. Complete Cross-Connect.

The COT pieces the cross-connect(s) between the ICDF and the MDF or DSX frames. The type of loop ordered determines the number of cross-connect needed.

# 3. Perform Loop Qualification

The COT performs a facility test with 77S or comparable test set.

# 4. Record Test Results

The COT records the facility test results in the WFA-C OSSLOG

# 5. Post work requst complete in WFA-DL

The COT accesses the DITSC screen in WFA-DI to complete the WFA-DI work request.

# 6. Analyze Due Date work request & call CCTI

The COT analyzes WFADI work request for appointment time and tests then calls the CCT-1 to notify they are remay to perform at location.

# 7. Set up for Due Date tests with I&M tech. \*2

COT sets up test equipment for DD tests

# 8. Complete work request with CCT-L \*2

The COT calls the CCT-I to notify the physical work and testing in the Central Office has been complete.

# 9. Complete Continuity Stress Testing

Digital pattern testing end to end over facility

\*2 = Orders with coordinated Due Date testing only

# Disconnect

# 1. Analyze Order.

The COT determines if assignment/sequipment requested by the work order are accurate.

The COT verifies the Circuit Design notifies CCT-1 of order inaccuracy

# 2. Remove Cross-Connects.

The COT removes the cross-connect(s) between the ICDF and the MDF or DSX frames. The type of loop proceed determines the number of cross-connect that will be removed.

# 3. Complete work request in WFA-DL

The COT accesses the DITSC screen in WFA-DI to complete the WFA-DI work request.

ACRONYM

DEFINITION

CC7-1

Customer Communication Techniques-Implementar

 $\Box$ C1 Free Document (Central Office version of the WORD document)

CORAC Central Office Resource Allucation Center

COT Central Office Teximocan

CRON Automated order had in WFA-DI

CWI Circuit Work Location (each Central Office tormion involved on the order)

OC. Due Date Critical Date

PITSO An Installation on Trouble Work Request screen in WFA-DI

DOSOI Service Order Installation screen in WFA-DO

DS IEM Technicum Designed Services Installation and Maintenance Technician

XZC Digital Services Cross-Comment

DVA Designed, Verified, and Assemble Critical Date i&M Installation and Maintenance field forms :DF Interconnecter Distributing Frame

770 Local Network Operation (typically includes the Central Office and IEM work forces

LRAC Lord Resource Administration Center

MDF Main Distributing Frame 222 Overall Control Office OSSON Circuit Notes screets in WFA-C

OSSCWI Circuit Work Location screen in WFA-C OSSLOG Work Respect Log arrests in WFA-C DSSLST Order List across in WFA-C OSSC: Order Installation acrees in WFA-C ೦೫೦೦೦ WORD Document screen at WFA-C

SCR Screener Critical Date 202 Service Delivery Coordinator

LSW US WEST

UFA-C Work Force Administration-Control Mudule WFA-D: Work Force Administration Disposch in Module WFA-DD Work Force Administration-Dispatch Out Module

MOKD Document Work Order Resent Detail Decement

# **TAB 39**

# INTERCONNECT SERVICE CENTER

Serves as the primary order provisioning contact for Competitive Local Exchange Carrier (CLEC) customers who purchase unbundled network elements products and services (i.e. Number Portability, Unbundled Loop, Unbundled Lineside Port, Resale) from Owest.

The center provides end-to-end order coordination from request through order completion and serves as the primary liaison for the customer for all downstream organizations.

# TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

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INTERCONNECT SERVICE CENTER LOOP SERVICE REQUEST (LSR) PROCESS AND TIME ESTIMATES REVIEW **MAY - JUNE 2001** 

# SUBJECT MATTER EXPERTS PROVIDING INPUT TO REVIEW

JOANNE GARRAMONE STAFF MANAGER LINDA MILES STAFF MANAGER SAMI HOOPER STAFF MANAGER MARLENE DIMANNA STAFF MANAGER MARK EARLY STAFF MANAGER CHERYLL GILLIAN STAFF CONSULTANT – PROCESS MARK ANDREWS SERVICE DELIVERY COORDINATOR MARY ANDERSON SERVICE DELIVERY COORDINATOR CRYSTAL SODERLUND

SERVICE DELIVERY COORDINATOR

DANIEL DEFFLEY **COST ANALYST** 

During May and June 2001 a number of conference calls were held to conduct a review of the Interconnect Service Center LSR (Loop Service Request) process and time to issue service orders. The purpose was to assure consistency with assumptions made when estimating times for processes that pertain to unbundled element products.

# Key assumptions considered include:

- Forward looking process, 12-18 months if possible
- Time estimate based on average that does not include internal order flow problem solving, system down
- · High skilled experience level of subject matter experts making time estimates
- Time estimates should not include supplements to initial order.

IMA flow through was addressed and flow through percentage weightings has been applied to the product that will have flow through.

DVD June 2001 Subject: Documentation of flowthrough expectations

Date: Wed, 21 Mar 2001 14:06:41 -0700
From: "John Curtis" <jxcurt2@uswest.com>

Organization: MSF&W SOFTWARE

To: ddeffie@uswest.com, dgolleh@uswest.com, tmillio@uswest.com,

Wendy Jackson <wijacks@uswest.com>

Dam,

Attached is the document we discussed in February.

John Curtis IT Regulatory

Phone: 303-965-6324 Fax: 303-965-0301

Name: LSR flow through documentation

for cost models.doc

Type: Microsoft Word Document

(application/msword)

Encoding: base64

LSR flow through documentation for cost models doc;

### LSR flow through - March 9, 2001

Significant effort has been directed to decreasing the manual handling of competitive local exchange carrier (CLEC) orders.

IMA releases 6.0 (December 2000), release 6.01 (February 2001), release 7.0 (April 2001), release 7.01 (June 2001) and release 8.0 (August 2001) in conjunction with FTS have made (will make) improvements in CLEC order flow through.

While the actual performance of the IMA flow through enhancements may take some time to achieve maximum efficiency, the 271 Benchmarks for OSS testing are being set at a relatively high level. IMA release 7.0 has been selected for testing. For 4 of the wholesale products for which Qwest is establishing SGAT pricing, the Benchmarks have been set as follows: 1) resale POTS = retail parity for POTS order flow through, 2) UNE-P = retail parity for POTS order flow through and 4) shared loop = 85% flow through.

The actual experience of Qwest retail flow through ranges from 94.31% to 96.04%, therefore it is reasonable to use a 95% flow through rate where the benchmark is retail parity.

Since these system enhancements are intended to reduce the ISC manual handling of CLEC LSR to the reciprocal of the benchmark, it is reasonable to reflect the benchmark flow through rates in the development of the UNE ordering costs in the Qwest SGAT pricing of the affected products.

The following sections are examples of the business requirements that are being met with the system enhancements.

## SHARED LOOP/SHARED DISTRIBUTION LOOP PROCESS, TIME ESTIMATES, PROBABILITIES

Date: June-2001 From: Linda Miles

Title: Staff Manager-Service Delivery

Interconnect Service Center

#### INSTALL

| · · · · · · · · · · · · · · · · · · ·  | INSTALL  |   |              |             |
|--|--|---|--------------|-------------|
| Work activity begins:  | May include these tasks:   | First                                   | -            | Probability |
|  |  | (minutes)                               |              | of          |
|  |  |   |              | occurrence  |
| •  |  |   |              | (%)         |
|  | Reviews LSR for completeness and accuracy, contractual           |   | -            |             |
|  | entries (analyze request to determine co-provider, type of       |   |              |             |
| Receive LSR  | order and installation option)                                   | 3                                       |              | 100         |
|  | Verifies CFA or facility/circuit availability/splitter           | 3                                       |              | 100         |
|  | Exchange Info-Obtain Central Office, name, address and           |   | _            |             |
|  | office type, Access Telephone Address Guide to obtain the        |   |              |             |
| •  | central office address   | 4                                       |              | 100         |
|  | CPPD-lookup billing USOC's for co-provider                       | 2                                       | _            | 100         |
|  | Summary Bill List-Look up BTN#, tax code, and Bill date          | <del></del>                             | <del></del>  | 100         |
|  | Analyzes request to determine the co-provider, type of order     |   | <del>-</del> | 100         |
|  | and installation option.   | 2.5                                     |              | 100         |
|  |  |   | <del></del>  | 100         |
|  | Verify Qwest end user Customer Service Record to determine       |   |              |             |
|  | if order issuance is applicable to provide the product. If       | _                                       |              | 100         |
|  | applicable, may include rejecting the LSR.                       | 2                                       | _            | 100         |
|  | Determine if the end user has Qwest directory advertising        | N/A                                     |              |             |
|  | Determine if the end user has Qwest retail contract              | N/A                                     | _            |             |
|  | Determine critical dates   | N/A                                     |              | !           |
| Issue appropriate forms and/or   |  |   |              |             |
| orders   | If there is either directory advertising or a retail contract or |   |              |             |
|  | both, issue the order to remove the information from the         |   |              |             |
|  | account. An estimate of 50% of the accounts will have these.     | N/A                                     |              | 50          |
| Customer Request Management  |  |   |              |             |
| (CRM)  | Populate required fields   | 3                                       |              | 100         |
|  | Type, review and submit to customer the Firm Order               |   |              |             |
| Review FOC   | Confirmation (FOC)   | 3                                       |              | 100         |
| Issue service order  | Input line sharing order into service order processor (manually  |   |              |             |
|  | typing and formatting of all orders for billing and provisioning |   |              |             |
|  | of the loop)   | 10                                      |              | 100         |
| Service Order Analysis & Control   | Ensure order is successfully distributed to the systems and is   |   |              |             |
| (SOAC/SOP)   | ready for provisioning   | 3                                       |              | 100         |
| Call Handling  | Includes handling calls from other departments working the       |   |              |             |
|  | order.   | 5                                       |              | 60          |
| Error on Service Order (ESOI)  | Handling of problems on the LSR, provisioning issues such as     |   |              |             |
|  | conditioning, facility problems, cable & pair, and typing        | ,                                       | •            |             |
|  | problems handled by the center.                                  | 5                                       |              | 50          |
|  |  |   |              |             |
|  | DISCONNECT   |   |              |             |
| Work activity begins:  | May include these tasks:   | Time use                                |              |             |
|  |  | (minute:                                |              |             |
|  | Reviews LSR for completeness and accuracy, validate circuit      | (************************************** |              |             |
| Receive LSR  | belongs to the co-provider                                       | -                                       |              | 100         |
| The state of the s | Verifies existing account (accesses CSR in BOSS/CARS) and        | 3                                       |              | 100         |
|  | obtains closing bill address if applicable                       |   |              | 100         |
|  |  | 2                                       |              | 100         |
| Di FOC   | Type, review and submit to customer the Firm Order               | _                                       |              |             |
| Review FOC   | Confirmation (FOC)   | 2                                       |              | 100         |
| Issue service order  | Input disconnect of line sharing orders into the service order   |   |              |             |
|  | processor (manually typing and formatting of all order for       |   |              |             |
|  | billing and provisioning of the loop)                            | 10                                      |              | 100         |

| Customer Request Management      |  |     | [ |     |
|----------------------------------|--|-----|---|-----|
| (CRM)                            | Populate required fields                                       | 3   | 3 | 100 |
| Service Order Analysis & Control | Ensure order is successfully distributed to the systems and is |     |   |     |
| (SOAC/SOP)                       | ready for provisioning   | . 3 | 3 | 100 |
|                                  |  |     |   |     |

#### Key Assumptions:

The times documented are forward looking.

The times documented here are average times.

They do not reflect problems encountered during the processing of the service order.

They do not include supplements to the initial order.

These estimates do not include any maintenance or repair time.

This process is as of today and the current functionality if IMA for ordering formatting.

IMA partial order creation. IMA wil create a portion of the service order and may vary by Unbubdled Loop product.

Increased experience level in the ISC: ISC has been performing this function for 3 years. The SDC who performed the work activity has been doing this work since 6/8/98.

Today. 1% of the customers send the LSR's via IIS, 99% use IMA to submit their LSR's.

## **CENTRAL OFFICE**

Responsible for service connection in the central office and associated testing and administrative functions. Places cross-connects (jumpers), performs cross-office testing, and provides support to field installation and control center for circuit testing as required.

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Subject: line sharing

Date: Fri, 11 Feb 2000 12:18:20 -0700

From: Michael Lanoue <mlanoue@uswest.com>

Organization: U S WEST Communications, Inc

To: ddeffle@uswest.com

Dan,

A Line Sharing new connect order will require the removal of one jumper (OE to CP on MDF or COSMIC) and the placement of four jumpers (OE to TP & CP to TP on the MDF or COSMIC and TP to Splitter & TP to Splitter on the IDF). A disconnect order for the DATA side only would be just the opposite (remove four jumpers and place one jumper).

Time requirements would include 4 minutes per jumper to place and 2.3 minutes per jumper to remove. Also, 2 minutes per order to perform the load coil detection test.

Mike

## INTERCONNECT SERVICE CENTER

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INTERCONNECT SERVICE CENTER
LOOP SERVICE REQUEST (LSR) PROCESS AND TIME ESTIMATES
REVIEW
MAY – JUNE 2001

## SUBJECT MATTER EXPERTS PROVIDING INPUT TO REVIEW

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DVD June 2001 uthor: <s=Dimanna/g=Marlene/ou=mdimann/o=corcs/p=uswest/a=mci/c=us> at mnet

Te: 3/5/97 11:13 AM

ority: Normal

J: Dan Deffley at omasd1D: Dan Deffley at omasd1

ubject: Subsequent Order Activity

----- Message Contents

ate: 03/05/97 Time: 11:03:03

Fo: DDEFFLE -- OMASD1

DDEFFLE --OMASD1

FROM: Marlene DiManna

SUBJECT: Subsequent Order Activity

This note is in reference to our conversation of last week regarding the time for the SDC for subsequent order activity for a NID (Network Interface Device).

'ifteen minutes is required for this activity, which is the same time needed for for adding channel performance or features on a subsequent order.

all if you need more.

## INSTALLATION

Performs necessary filed work on new orders and changes to existing service including:

- Travel to customer premises
- Cross-connect activity at feeder plant to distribution plant field locations
- Customer premises work activities to connect circuit at the network interface
- Circuit testing as required
- Order completion with LRAC

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|  | Subsequent order activity to replace NID |
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| NETWORK INTERFACE DEVICE   | vin                                      |
| NETWORK INTERFACE DEVICE   | ¥#: 5.                                   |
| Inevel to end user premises  | 21                                       |
|  | 2:                                       |
| Travel to end user premises Costomer contact, retrofit or replace device, complete   |  |
| Inevel to end user premises  | 2:                                       |
| Travel to end user premises Costomer contact, retrofit or replace device, complete   | 2:                                       |
| Travel to end user premises  Customer contact, retrofit or replace device, complete order with center.   | 2:                                       |
| Enavel to end user premises  Consomer contact, retroffit or replace device, complete order with center.  A NID Charge applies when ordered subsequent to the   | 2:                                       |
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| Travel to end user premises  Customer contact, retrofit or replace device, complete order with center.   | 2:                                       |
| Enavel to end user premises  Consomer contact, retroffit or replace device, complete order with center.  A NID Charge applies when ordered subsequent to the   | 2:                                       |
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| Enzyel to end user premises  Customer contact, nerrofit or replace device, complete order with center.  A NID Charge applies when ordered subsequent to the installation of a loop.  | 2:                                       |
| Travel to end user premises  Customer contact, nerrofit or replace device, complete order with center.  A NID Charge applies when ordered subsequent to the installation of a loop.  | 2:                                       |
| Enzyel to end user premises  Consomer contact, retrofit or replace device, complete order with center.  A NID Charge applies when ordered subsequent to the installation of a loop.  ALAN BRAEGER - STAFF MANAGER  BILL RODRIGUEZ - STAFF MANAGER  | 2:                                       |
| Travel to end user premises  Customer contact, nerrofit or replace device, complete order with center.  A NID Charge applies when ordered subsequent to the installation of a loop.  | 2:                                       |
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## SERVICE DELIVERY COORDINATOR

Wholesale markets – Service Delivery serve as the primary order provisioning contact for CLECs, Interexchange Carriers and Wireless customers who purchase complex wholesale and retail products and services (i.e., Private Line, Feature Group, LIS Trunking, Centrex Resale, Number Portability) from Qwest.

The center teams provide end-to-end order coordination from request through order completion and serve as the primary liaison for the customer for all downstream organizations.

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Subject: Cost Study

Date: Tue, 21 May 2002 10:37:36 -0600 From: "Cindy Kalakis" <ckalaki@qwest.com>

To: ddeffle@uswest.com

CC: "Terri McQuiston" <tporter@notes.uswc.uswest.com>

, "Linda Kae Olsen" <lxolsen@notes.uswc.uswest.com>
, "Ronda Bergstedt" <rbergst@notes.uswc.uswest.com>
, "Nancy Chapman" <nljohns@notes.uswc.uswest.com>

#### Dan:

Attached is the cost study spreadsheets for Private Line, Switched Access, LIS and UDIT.

I did a comparison on like functions and it seems we are in synch. There are some differences with the SHNS-SST because of the complexity of the product but I think we are either the same or justifiably different where appropriate between all the products.

If you need to get us all together again to discuss, let me know, I'll be happy to set up a meeting, or you can talk to the Product Process Specialist for each product if you have questions.

Thanks for your patience!

Cindy

(See attached file: SDC TIMES 2002-Summary-all prod.xls)

Name: SDC TIMES 2002-Summary-all

prod.xls

SDC TIMES 2002-Summary-all prod.xls Type: Microsoft Excel Worksheet

(application/vnd.ms-excel)

Encoding: base64

CINDY 'KIS STAF AGER

T

| INSTALL                    |  | Time Estimates in Minutes    |   |              |           |             |  |
|----------------------------|--|------------------------------|---|--------------|-----------|-------------|--|
|                            |  |                              |   | TRU          | NKS       |             |  |
| Item                       | Work Activity  | CONVERSION                   | COLLO                                   | INSTALL      | INSTALL   | Change      | Notes  |
|                            | Description  | FROM ACCESS                  | XIFER OF USE                            | FIRST        | EA ADDL   |             |  |
| <del> </del>               |  |                              |   |              |           |             | This is the length of time it takes the SDC to pull up the   |
|                            | ASR is received mechanically through   |                              |   | ]            |           |             | ASR by ASR number in EXACT.  |
| Receive ASR mechanically   | EXACT on a mechanized work list  | ]                            |   | 1            |           |             | *90% of ASRs are mechanical  |
|                            | The second secon |                              |   |              |           |             | This is the time that it would take the SDC to manually  |
|                            |  |                              |   |              | j         |             | input the information on all the EXACT screens.  |
| Receive ASR via FAX*       | Input ASR into EXACT Manually  |                              |   | 10           | į         |             | *10% of ASRs are manually faxed.   |
|                            | - 1  |                              |   |              |           |             | Entries are made to add order number, circuit ID and   |
|                            |  | i                            |   |              | 1         |             | intervals to the service order. The address is validated   |
| Validate ASR in            | Check for the accuracy of the ASR fields   |                              |   | 1            | }         | 1           | for accuracy. TheQwest EXACT screens are populated   |
| EXACT                      | and make sure all information is present   |                              |   | 10           | 1         | Į.          | in this step.  |
|                            | Check if customer is already established   |                              | *************************************** |              |           |             |  |
| Check Credit Info/Security | with Qwest or if credit info is required.  |                              |   | 2            |           |             | This is done 100% of the time.   |
|                            | CheckRDLOC screen to validate who  | A SECTION OF THE PROPERTY OF |   |              |           |             |  |
| TIRKS                      | owns the collocation.  |                              |   | 3 5          |           |             |  |
| TIRKS                      | Check CBLP to validate if slot is spare  |                              |   | 5            |           |             | This is to verify if CCEA/SCCEA entries are valid.   |
|                            | Check to make sure the address is premis   |                              |   |              |           |             |  |
| Validate address in TAG    | valid  |                              | ļ                                       | 3            | ļ         | 1           | This is done 100% of the time.   |
|                            | Check the IABS TICR table to ensure  |                              |   |              |           |             |  |
| 1                          | rates are loaded for UDIT for customer's   |                              | į                                       |              | 1         | 1           |  |
| Validate Contract Rates    | contract.  | ]                            | ļ                                       | 3            | 1         | 1           | This is done 100% of the time.   |
|                            | Check to see if LOA is necessary. If LOA   |                              |   | 1            |           | 1           |  |
| 1                          | is needed is it on file or does the SDC  |                              |   | 1            |           |             |  |
| Verify LOA*                | need to request a new one.   |                              |   | 5            | į         | 1           | *65% of the time   |
|                            | Make sure the circuit ID passed by the   |                              |   | T            | 1         |             | The state of the s |
|                            | customer is the same on our TAXI   |                              |   |              | •         |             |  |
|                            | records. Verify the BAN provided by the  | }                            |   |              |           | į           |  |
| ]                          | cUSTOMER is accurate and if not  |                              | 1                                       | Ì            |           |             |  |
| Verify TAXI                | accurate locate the correct BAN.   |                              |   | 0            | 1         | 1           | Not required on new installations - only change orders.  |
|                            | If the request is for co-provided service,   |                              |   | 1            |           |             |  |
|                            | the SDC must make sure all entries are   | 1                            |   |              |           | į           |  |
| j                          | on the ASR and negotiate dates with the  |                              |   |              |           |             |  |
| Coordinate as ICO          | ICO.   |                              |   | 8            |           |             | 35% of the time. per Rhonda Bergstadt  |
|                            | Handling calls from the IXC change to co-  | -                            |   |              |           |             |  |
| 1                          | provider and from within the company   |                              |   | 1            | 1         | l           |  |
| Intra Company Calls        | regarding the ASR.   |                              | j                                       | 13           |           |             |  |
|                            |  |                              |   |              |           | 1           | You can only do one of these on an ASR. You cannot   |
| 1                          |  |                              | }                                       | 1            |           | 1           | mechanically and manually FOC the same ASR.  |
| Mechanical FOC*            | Mechanically confirm the ASR   |                              |   | 1            |           | 1           | *Mechanical FOC is 90%   |
|                            | INSTALL  | 1                            | Times Cation                            | nton in Bil. | utoe      | •           |  |
|                            | IIIUIALL   |                              | Time Estin                              |              |           | <del></del> | <b>-</b> }   |
|                            |  |                              |   |              | UNKS      | 1 01        | 4  |
| Item                       | Work Activity  | CONVERSION                   | COLLO                                   | 1 .          | . INSTALL | Change      | Notes  |
|                            | Description  | FROM ACCESS                  | XIFER OF USE                            | FIRST        | EA ADDL   |             |  |

| COUNT |             |
|-------|-------------|
| CINDY | KIS         |
| STAF  | <b>IGER</b> |

|  | ACD - LANGE  |                           |             |  |              |        | *You can only do one of these on an ASR. You canno   |
|--|--|---------------------------|-------------|--|--------------|--------|--|
|  | Manually confirm the ASR, print the  |                           |             |  |              |        | mechanically and manually FOC the same ASR.  |
|  | screen and fax to the customer. Includes   | į                         |             |  | ŀ            | l      | *Mechanical FOC is 90%   |
| Manually FOC*  | the FAX of the DLR.  |                           |             | 6  |              |        | *Manual FOC is 10%   |
|  | Send the order through the EXACT/TUF   |                           |             |  |              |        | The second secon |
| Distribute the order to IABS   | module in TIRKS and into IABS.   |                           |             | 1  |              | l      | This is a mechanical process within EXACT.   |
|  |  |                           |             |  |              |        | Check for correct rate elements/USOCs and  |
|  | Check to make sure the service order is  | }                         |             |  |              |        | nonrecurring charges application.  |
| Validate IABS Service order  |  |                           |             | 6  |              | {      | *Order must be created from scratch  |
| The comment of the control of the co | Send order to RSOLAR, SOLAR or   |                           |             |  |              |        | Older must be disalted from solution   |
| Distribute Service Order to  | SOPAD. This is automatically done when   | 1                         |             | }  |              |        | ·  |
| the SOPs   | the order is processed in IABS.  | 1                         |             | 1  | }            |        |  |
|  | Check the SOAC database for 3 success  |                           |             |  | <b></b>      |        |  |
|  | messages. This means the order has   | ļ                         |             | İ  | 1            |        |  |
| Check SOAC   | logged into TIRKS.   | Ţ                         |             | 3  |              |        | ·  |
|  | Check WFA for completion of service  |                           |             |  |              |        | and the same of th |
| Check WFA  | order.   | ļ                         | i           | 3  |              | }      | ·  |
| Olicor ver / C   | Add any additional information from WFA  |                           |             |  |              |        |  |
|  | that pertains to the service order. Make   |                           |             |  |              | 1      |  |
|  | sure IABS service order is accurate for  | ļ                         |             |  |              |        |  |
| Check IABS Service Order   | 4 · · · · · · · · · · · · · · · ·  |                           |             | _  |              |        |  |
| Check IMD9 Service Order   | Type the correct codes to complete the   |                           |             | 5  |              | l      | Validate required FIDs are present.  |
| O  |  |                           |             | ]  |              | Ì      |  |
| Complete IABS Service Ord  |  | للاعا الماليين وسعجار     |             | 1  |              |        | <u>                                     </u>   |
| i  | Type correct information into EXACT and  | . 1                       |             |  | i            | 1      |  |
| THE THAT   |  | ١                         |             | •  |              |        | 1  |
| Complete EXACT   | complete the ASR.  |                           |             | 1  |              | l      |  |
| Complete EXACT Note EXACT  | complete the ASR.  Make any applicable notes in EXACT  |                           |             | 2  |              |        |  |
| Note EXACT   | Make any applicable notes in EXACT   |                           |             | 2  |              |        |  |
| Note EXACT   | <b> </b>   |                           | Time Estim  | ates in Min                                    |              |        |  |
| Note EXACT   | Make any applicable notes in EXACT  DISCONNECT   |                           | Time Estima | ates in Min                                    | utės<br>JNKS |        |  |
| Note EXACT   | Make any applicable notes in EXACT   | CONVERSION                | Time Estima | ates in Min                                    |              | Change | Notes  |
| Note EXACT   | Make any applicable notes in EXACT  DISCONNECT   | CONVERSION<br>FROM ACCESS |             | ates in Min<br>TRI                             | DISC         | Change | Notes  |
| Note EXACT   | Make any applicable notes in EXACT  DISCONNECT  Work Activity  Description   |                           | COLLO       | ates in Min<br>TRI<br>DISC                     | JNKS         | Change |  |
| Note EXACT  L  Item  | Make any applicable notes in EXACT  DISCONNECT  Work Activity  Description  ASR is received mechanically through   |                           | COLLO       | ates in Min<br>TRI<br>DISC<br>FIRST            | DISC         | Change | This is the length of time it takes the SDC to pull up the   |
| Note EXACT   | Make any applicable notes in EXACT  DISCONNECT  Work Activity  Description  ASR is received mechanically through   |                           | COLLO       | ates in Min<br>TRI<br>DISC                     | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT.   |
| Note EXACT  L  Item  Receive ASR mechanically  | Make any applicable notes in EXACT  DISCONNECT  Work Activity  Description  ASR is received mechanically through EXACT on a mechanized work list.  |                           | COLLO       | ates in Min<br>TRI<br>DISC<br>FIRST            | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. This is the time that it would take the SDC to manually   |
| Note EXACT  L  Item  | Make any applicable notes in EXACT  DISCONNECT  Work Activity  Description  ASR is received mechanically through EXACT on a mechanized work list.  Input ASR into EXACT manually   |                           | COLLO       | ates in Min<br>TRI<br>DISC<br>FIRST            | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT.   |
| Note EXACT  L  Item  Receive ASR mechanically  | Make any applicable notes in EXACT  DISCONNECT  Work Activity  Description  ASR is received mechanically through EXACT on a mechanized work list.  Input ASR into EXACT manually Make sure the circuit ID passed by the  |                           | COLLO       | ates in Min<br>TRI<br>DISC<br>FIRST            | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. This is the time that it would take the SDC to manually   |
| Note EXACT  L  Item  Receive ASR mechanically  | Make any applicable notes in EXACT  DISCONNECT  Work Activity  Description  ASR is received mechanically through EXACT on a mechanized work list.  Input ASR into EXACT manually Make sure the circuit ID passed by the customer to be disconnected is the same  |                           | COLLO       | ates in Min<br>TRI<br>DISC<br>FIRST            | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. This is the time that it would take the SDC to manually   |
| Note EXACT  L  Item  Receive ASR mechanically  | Make any applicable notes in EXACT  DISCONNECT  Work Activity Description  ASR is received mechanically through EXACT on a mechanized work list.  Input ASR into EXACT manually Make sure the circuit ID passed by the customer to be disconnected is the same on our TAXI records. Verify the BAN   |                           | COLLO       | ates in Min<br>TRI<br>DISC<br>FIRST            | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. This is the time that it would take the SDC to manually   |
| Note EXACT  L  Item  Receive ASR mechanically  Receive ASR via FAX   | Make any applicable notes in EXACT  DISCONNECT  Work Activity Description  ASR is received mechanically through EXACT on a mechanized work list.  Input ASR into EXACT manually Make sure the circuit ID passed by the customer to be disconnected is the same on our TAXI records. Verify the BAN provided by the carrier is accurate and if  |                           | COLLO       | ates in Min<br>TRI<br>DISC<br>FIRST<br>1       | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. This is the time that it would take the SDC to manually   |
| Note EXACT  L  Item  Receive ASR mechanically  | Make any applicable notes in EXACT  DISCONNECT  Work Activity Description  ASR is received mechanically through EXACT on a mechanized work list.  Input ASR into EXACT manually Make sure the circuit ID passed by the customer to be disconnected is the same on our TAXI records. Verify the BAN provided by the carrier is accurate and if not accurate locate the correct BAN.   |                           | COLLO       | ates in Min<br>TRI<br>DISC<br>FIRST            | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. This is the time that it would take the SDC to manually   |
| Note EXACT  L  Item  Receive ASR mechanically  Receive ASR via FAX  Verify TAXI  | Make any applicable notes in EXACT  DISCONNECT  Work Activity Description  ASR is received mechanically through EXACT on a mechanized work list.  Input ASR into EXACT manually Make sure the circuit ID passed by the customer to be disconnected is the same on our TAXI records. Verify the BAN provided by the carrier is accurate and if not accurate locate the correct BAN. Make sure all necessary entries are   |                           | COLLO       | ates in Min<br>TRI<br>DISC<br>FIRST<br>1<br>10 | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. This is the time that it would take the SDC to manually   |
| Note EXACT  L  Item  Receive ASR mechanically  Receive ASR via FAX   | Make any applicable notes in EXACT  DISCONNECT  Work Activity Description  ASR is received mechanically through EXACT on a mechanized work list.  Input ASR into EXACT manually Make sure the circuit ID passed by the customer to be disconnected is the same on our TAXI records. Verify the BAN provided by the carrier is accurate and if not accurate locate the correct BAN. Make sure all necessary entries are present on the ASR.   |                           | COLLO       | ates in Min<br>TRI<br>DISC<br>FIRST<br>1       | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. This is the time that it would take the SDC to manually   |
| Item  Receive ASR mechanically Receive ASR via FAX  Verify TAXI  Validate ASR in EXACT   | Make any applicable notes in EXACT  DISCONNECT  Work Activity Description  ASR is received mechanically through EXACT on a mechanized work list.  Input ASR into EXACT manually Make sure the circuit ID passed by the customer to be disconnected is the same on our TAXI records. Verify the BAN provided by the carrier is accurate and if not accurate locate the correct BAN. Make sure all necessary entries are present on the ASR. Verify all sub-circuits have been removed   |                           | COLLO       | ates in Min TRI DISC FIRST 1 10 5              | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. This is the time that it would take the SDC to manually input the information on all the EXACT screens.   |
| Item  Receive ASR mechanically Receive ASR via FAX  Verify TAXI  | Make any applicable notes in EXACT  DISCONNECT  Work Activity Description  ASR is received mechanically through EXACT on a mechanized work list.  Input ASR into EXACT manually Make sure the circuit ID passed by the customer to be disconnected is the same on our TAXI records. Verify the BAN provided by the carrier is accurate and if not accurate locate the correct BAN. Make sure all necessary entries are present on the ASR.  Verify all sub-circuits have been removed if muxed circuit.  |                           | COLLO       | ates in Min<br>TRI<br>DISC<br>FIRST<br>1<br>10 | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. This is the time that it would take the SDC to manually   |
| Item  Receive ASR mechanically Receive ASR via FAX  Verify TAXI  Validate ASR in EXACT   | Make any applicable notes in EXACT  DISCONNECT  Work Activity Description  ASR is received mechanically through EXACT on a mechanized work list.  Input ASR into EXACT manually Make sure the circuit ID passed by the customer to be disconnected is the same on our TAXI records. Verify the BAN provided by the carrier is accurate and if not accurate locate the correct BAN. Make sure all necessary entries are present on the ASR. Verify all sub-circuits have been removed if muxed circuit. Handling calls from the IXC change to co- |                           | COLLO       | ates in Min TRI DISC FIRST 1 10 5              | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. This is the time that it would take the SDC to manually input the information on all the EXACT screens.   |
| Item  Receive ASR mechanically Receive ASR via FAX  Verify TAXI  Validate ASR in EXACT   | Make any applicable notes in EXACT  DISCONNECT  Work Activity Description  ASR is received mechanically through EXACT on a mechanized work list.  Input ASR into EXACT manually Make sure the circuit ID passed by the customer to be disconnected is the same on our TAXI records. Verify the BAN provided by the carrier is accurate and if not accurate locate the correct BAN. Make sure all necessary entries are present on the ASR.  Verify all sub-circuits have been removed if muxed circuit.  |                           | COLLO       | ates in Min TRI DISC FIRST 1 10 5              | DISC         | Change | This is the length of time it takes the SDC to pull up the ASR by ASR number in EXACT. This is the time that it would take the SDC to manually input the information on all the EXACT screens.   |

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|                              |  |             |              |             |          | ·      | *You can only do one of these on an ASR. You canno<br>mechanically and manually FOC the same ASR.<br>*Mechanical FOC is 90%  |
|------------------------------|--|-------------|--------------|-------------|----------|--------|--|
| Mechanical FOC*              | Mechanically confirm the ASR             |             |              | 1           | <u> </u> |        | •  |
|                              | Manually confirm the ASR, print the      |             |              |             |          |        | e <del>mana suu saan ka mana a mana ka ka ka ka ka ka ka ka ka ka ka ka ka</del>   |
| •                            | screen and fax to the customer. Includes |             |              |             |          |        | ·  |
| Manually FOC*                | the FAX of the DLR.                      |             |              | 6           |          |        |  |
|                              | Send the order through the EXACT/TUF     |             |              |             |          |        | **************************************   |
| Distribute the order to IABS | module in TIRKS and into IABS.           |             |              | 1           |          |        |  |
|                              | Check to make sure the service order is  |             |              | ******      |          |        |  |
| Validate IABS Service order  | complete and accurate.                   |             |              | 5           |          |        | * Create order from scratch  |
|                              | Send order to RSOLAR, SOLAR or           |             |              |             |          |        | · · · · · · · · · · · · · · · · · · ·  |
| Distribute Service Order to  | SOPAD. This is automatically done when   |             | ,            |             |          |        |  |
| the SOPs                     | the order is processed in IABS.          |             |              | 1           |          |        |  |
|                              | Check the SOAC database for 3 success    |             |              |             |          |        | The state of the s |
|                              | messages. This means the order has       |             |              |             | (        |        |  |
| Check SOAC                   | logged into TIRKS.                       |             | İ            | 3           |          |        |  |
|                              | Check WFA for completion of service      |             |              |             |          |        |  |
| Check WFA                    | order.                                   | ·           |              | 3           |          |        |  |
| D                            | SCONNECT                                 |             | Time Estima  | ites in Min | utes     |        |  |
|                              |  |             |              | TRI         | JNKS     |        |  |
| item                         | Work Activity                            | CONVERSION  | COLLO        | DISC        | DISC     | Change | Notes  |
| ·                            | Description                              | FROM ACCESS | X/FER OF USE | FIRST       | EA ADDL  |        | ·  |
|                              | Add any additional information from WFA  |             |              |             |          |        |  |
|                              | that pertains to the service order. Make | Ì           | }            | ,           |          |        |  |
|                              | sure IABS service order is accurate for  | Ì           |              |             |          |        |  |
| Check IABS Service Order     | billing.                                 |             |              | 5           | 1        |        |  |
|                              | Type the correct codes to complete the   |             |              |             |          |        | The second state of the contract of the contra |
| Complete IABS Service Orde   | r order in IABS.                         |             | 1            | 1           |          |        |  |
|                              | Type correct information into EXACT and  |             |              |             |          |        |  |
| Complete EXACT               | complete the ASR.                        | Į.          | 1            | 1           |          | 1      |  |
| Note EXACT                   | Make any applicable notes in EXACT       |             |              | 2           |          |        |  |
|                              | *  |             | T            |             | 1        |        | The second secon |
|                              |  |             |              |             |          |        |  |

#### TASK DESCRIPTIONS

**Receive ASR** - If the ASR is received mechanically the SDC pulls up the ASR number from their work list and begins the next step of validating the ASR.

If the ASR is received manually via FAX the SDC must input all information from the paper copy on to the electronic screens.

Validate ASR in EXACT - Validating EXACT screens and reviewing the ASR for errors, adding additional information required for service order processing. Screens may include: ICORD, ICTRK, ICCKT, ICACI and ICNTS.

This includes verifying all information required to issue a 2 point or multiplexed circuit has been received.

Verify address in TAG - Check the Telephone Address GUI (TAG) system to verify that the address is premis valid. This eliminates problems downstream for assignments.

Verify LOA - Check to see if LOA is necessary. If LOA is needed is it on file or does the SDC need to request a new one.

Verify Taxi - Verify circuit ID passed by the customer matches TAXI. Verify any/all sub-circuits removed prior to disconnecting multiplexed circuit.

Coordinate as ILEC - Validate appropriate entries in EXACT for co-provided service, coordinate due dates with Exchange Carrier.

Check TIRKS - If the request is for a muxed facility the SDC must check TIRKS to determine the name for the circuit. With SST/SHNS verify SCID in TIRKS. If disconnecting multiplexed circuit verify all sub-circuits have been disconnected /moved.

Call LCON - All requests ending up at and end-user location must be called to verify wiring location and access information.

Verify EXACT - This includes verifying all information required to issue a 2 point or multiplexed circuit has been received.

Intra-Company Calls - Handling phone calls from the Interexchange carrier and calls from within the company to resolve issues surrounding the ASR and Service order.

When SST is multiplexed the SDC must also call the project manager for the circuit ID, SCID and due date.

Mechanical FOC - Firm Order Confirmation transaction completed in EXACT. Required on all ASRs sent mechanically. Mechanized customers receive automatically when transaction completed. Customers receive the DLR automatically from TIRKS.

Manually FOC - On non-electronic ASRs, after FOC task completed, the EXACT screen is printed and either faxed or mailed to the customer. The DLR is pulled from the printer and either faxed or mailed to the customer.

Order Distribution to IABS - Complete the command to send the order through the EXACT/TUF translation module and send to IABS.

Order Validation - Check the entries that were passed from EXACT/TUF and make sure they are correct.

Any additional information necessary to process the order.

Distribute the Service order to the SOPS - Complete the command to send the order to the Service order processors.

Check SOAC - The order must be checked in this database to make sure there are two successes, the order logging and the word logging portion must be successful for the order to then pass to TIRKS.

If MAP T FID present on order, verify order has NOT passed through SOAC.

Order Completion - Check WFA for any additional USOCs that must be added to the service order, note the completion date of the service order.

Complete IABS service order - Add any additional billing information to the service order and complete the service order.

Complete EXACT - Make appropriate entries in EXACT and complete ASR. Make appropriate entries in EXACT notes.

Conferred with:

Ronda Bergstedt - Process Specialist DS0, DS1 & SHARP/SHNS services

Nancy Chapman - Process Specialist DS3 & SST

Cindy Kalakis - Process Specialist UDIT

Linda Kae Olson - Process Specialist LIS

Terri McQuiston - Process Specialist - Switched

## **DESIGN**

- Overall responsibility for RID (Record Issue Date) completion.
- Upholding Qwest design standards
- Assigns interoffice facilities and equipment at the circuit level
- Prepares and distributes WORD (Work Order Record Detail) including DLR (Design Layout Record).
- Ensures that TIRKS (Trunks Integrated Record Keeping System) designs meet the customer expectations.
- Escalates as necessary to ensure pre-RID dates are met.
- Advises Qwest sales forces or order originators of jeopardies as they are discovered.
- Maintains TIRKS database integrity by making design changes as they occur (i.e. cable pair changes, etc.)

## TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

|                          | COST ELEMENT |        | COST ELEMENT | ·      |     |
|--------------------------|--------------|--------|--------------|--------|-----|
| UNBUNDLED DEDICATED      | 1            | %      | DS1, DS3     | %      | 1   |
| INTEROFFICE TRANSPORT    | DSO          | MANUAL | 003, 0012    | MANUAL |     |
| EUDIT                    |              | PR05   |              | PROB   |     |
| DESIGN                   |              |        | į .          |        |     |
| WORK ACTIVITY            |              |        | 1            |        |     |
| INSTALL                  |              |        |              |        | i   |
| ORDER HANDLING/SCREENING | 5            | 0.20   | 5            | 0.20   | !   |
| GOC ORDER LOG            | 6            | 0.20   | 6            | 0.20   | !   |
| ENTER WA MASK            | 5            | 0.10   | 5            | 0.80   | l   |
| PREP LOOP INPUT/DRI      | 10           | 0.20   | 15           | 0.75   |     |
| CIRCUIT DESIGN           | 20           | 0.10   | 30           | 1.00   | i · |
| DISTRIBUTE WORD DOC      | 2            | 0.05   | 2            | 0.90   |     |
|                          |              |        |              |        |     |
| DISCONNECT               |              |        | l            |        |     |
| ORDER HANDLING/SCREENING | 5            | 0.10   | 5            | 0.10   |     |
| 300 ORDER LOG            | 6            | 2.10   | 6            | 0.10   | 1   |
| ENTER WA MASK            | 5            | 0.10   | 5            | 0.10   |     |
| DISCONNECT CIRCUIT       | na .         | na     | 5            | 0.10   |     |
| DISTRIBUTE WORD DOC      | 2            | 0.10   | 2            | 0.10   |     |
|                          |              |        |              |        |     |

IOTE.

he time estimates and probability percentages listed are forward-looking.

hese work activities are required to process a service request that falls out of the TIRKS system

· mechanized design.

nese are average times. The times assume the technician will not encounter problems during

e manual process necessary to process the service request.

DURCE.

THY PLATTS

SIGN CENTER STAFF

35

19 same times apply for OC3, OC12 levels.

IRCH, 2000 process and times appropriate for Extended UDIT

|                          | COST ELEMENT     |        | COST ELEMENT   |              | COST ELEMENT |              | COST ELEMENT   |        |
|--------------------------|------------------|--------|----------------|--------------|--------------|--------------|----------------|--------|
| MULTIPLEXING             | DSO              | %      | DS1            | %            | DS1          | %            | DS3            | %      |
| (UDI                     | T) udit low sido | MANUAL | udit bigh sido | MANUAL       | low side of  | MANUAL       | udit high sido | MANUAL |
| (LI                      | S)               | PROB   | lis            | PROB         | udit 3/1 mux | PROB         | lis            | PROB   |
| DESIGN                   |                  |        |                |              |              |              |                |        |
| <b>WORK ACTIVITY</b>     |                  |        |                |              | }            |              |                |        |
| INSTALL                  |                  |        | ſ              |              |              |              | 1              |        |
| ORDER HANDLING/SCREENING | 5                | 0.20   | 5              | 0.20         | 2            | 0.20         | 5              | 0.20   |
| GOC ORDER LOG            | 6                | 0.20   | 6              | <b>0</b> .20 | 2            | 0.20         | 6              | 0.20   |
| ENTER WA MASK            | 5                | 0.10   | 5              | 0.80         | 2            | 0.80         | 5              | 0.80   |
| PREP LOOP INPUT/DRI      | 10               | 0.20   | 15             | 0.75         | 2            | <i>0</i> .75 | 15             | 0.75   |
| CIRCUIT DESIGN           | 20               | 0.10   | 30             | 1.00         | 5            | 1.00         | 30             | 1.00   |
| DISTRIBUTE WORD DOC      | 2                | 0.05   | 2              | 0.90         | 2            | 0.90         | 2              | 0.90   |
| DISCONNECT               |                  | ,÷     |                |              |              |              |                |        |
| ORDER HANDLING/SCREENING | 5                | 0.10   | 5              | 0.10         | 2            | 0.10         | 5              | 0.10   |
| GOC ORDER LOG            | 6                | 0.10   | 6              | 0.10         | 2            | 0.10         | 6              | 0.10   |
| ENTER WA MASK            | 5                | 0.10   | 5              | 0.10         | 2            | 0.10         | 5              | 0 10   |
| DISCONNECT CIRCUIT       | 5                | 0.10   | 5              | 0.10         | 2            | 0.10         | 5              | 0.10   |
| DISTRIBUTE WORD DOC      | 2                | 0.10   | 2              | 0.10         | 2            | 0.10         | 2              | 0.10   |

### NOTE:

The time estimates and probability percentages listed are forward-looking to year end 1999.

These work activites are required to process a service request that falls out of the TIRKS system for mechanized design.

These are average times. The times assume the technician will not encounter problems during the manual process necessary to process the service request.

UDIT DS3/DS1 multiplexing requires all orders worked at the same time. A total of 29 orders will be worked.

UDIT DS1/DS0 multiplexing high side and low side orders are worked separately, low side channels may be ordered at different times.

SOURCE: KATHY PLATTS

DESIGN CENTER STAFF

Aug-98

|   | COST ELEMENT |                     | COST ELEMENT          |                  |
|---|--------------|---------------------|-----------------------|------------------|
| UNBUNDLED DEDICATED INTEROFFICE TRANSPORT REARRANGEMENT | DSO          | %<br>MANUAL<br>PROB | DS1, DS3<br>OC3, OC12 | %<br>MANUAL      |
| DESIGN  |              |                     |                       | PROS             |
| WORK ACTIVITY   |              |                     |                       |                  |
| INSTALL   |              |                     |                       |                  |
| ORDER HANDLING/SCREENING                                | 5            | 100.00              | 5                     | 100.00           |
| SOC ORDER LOG   | 6            | 100.00              | 6                     | 100.00           |
| ENTER WA MASK   | 5            | 100.00              | 5                     | 100.00           |
| PREP LOOP INPUT/DRI                                     | 10           | 100.00              | 15                    | 100.00<br>100.00 |
| DISCONNECT CIRCUIT                                      | 5            | 100.00              | 5                     | 100.00           |
| CIRCUIT DESIGN  | 20           | 100.00              | 30                    | 100.00           |
| DISTRIBUTE WORD DOC                                     | 2            | 100.00              | 2                     | 100.00           |
|   | ·            |                     |                       |                  |
|   |              |                     |                       |                  |
|   | ·            |                     |                       |                  |
|   |              |                     |                       |                  |
|   |              |                     |                       |                  |
|   |              |                     |                       |                  |
|   |              |                     |                       |                  |
|   |              |                     |                       |                  |

### NOTE.

The time estimates and propability percentages listed are forward-looking to year end 1999.

These work activities are required to process a service request that falls out of the TIRKS system for mechanized design.

These are average times. The times assume the technician will not encounter problems during the manual process necessary to process the service request.

SOURCE.

KATHY PLATTS

DESIGN CENTER STAFF

1/99

3/99 same times apply for OC3, OC12 levels.

10/99 review by Katny Platts for UDIT Rearrangement cost study. Same times apply.

### PRIVATE LINE SERVICES

| SERVICE DELIVERY DESIGN ANALOG PROCESS :   |                                  |
|--|----------------------------------|
|  |                                  |
| Work Activity Descriptions :   |                                  |
|  |                                  |
| INSTALL  |                                  |
| 1. Order Handling/Screening  | ! :                              |
| Check for Order Accuracy   |                                  |
| Check Service Order Analysis and Control (SOAC) for Reques   | st for Manual Assistance (RMA's) |
| Verity A & Z Location in RDLOC   | 3. 10. 11.01.00 / 0.00.00        |
| Access Trunks integrated Record Keeping System (TIRKS) for   | or Cirminit                      |
| Check Order for Coordination Time (if not available)   |                                  |
| Call Order Originator to ask for Coordination  |                                  |
| Call Order Originator to ask for Coordination  |                                  |
|  |                                  |
| Generic Order Control (GDC) Order Logging     Access TIRKS (Work Authorization (WA), PCFLOW, GCNO  | IE) :                            |
|  | ·=; ··                           |
| Verify Order in Service Processor  |                                  |
| Screen and Log GOC   |                                  |
| Put Remarks in GCNOTE Order Manually Logged  |                                  |
|  |                                  |
| 3. Enter WA Mask   | 1                                |
| Check Availability of Facilities in TIRKS  |                                  |
| Add Required Data to WA Screen :   |                                  |
| Verify that WA Screen Matches Service Order  |                                  |
| Manually input WA Screen   |                                  |
|  |                                  |
| 4. Prepare Loop/Design Related Information (DRI) Scree   |                                  |
| Verify that Loop Facilities Assignment and Control System (Li  | ACS) Assignments & TIRKS Agree   |
| Check information on LPADM, DRI, LOOP2 and CD Screen   |                                  |
| Resorve Design Related Information (DRI) Errors  |                                  |
| Resorve Local Loop Errors  |                                  |
| Manually load the LPADM, DRI, LOOP2, and CD Screen   |                                  |
| 1  | ! !                              |
| 5. Circuit Design  | 1                                |
| Check GCNOTE or PCFLOW for error   | i                                |
| Resolve Facility, Assignment or Equipment Issues with Comm   | nunications Processor (CP)       |
| Resorve Circuit Detail Errors 1  |                                  |
|  |                                  |
| Build Circuit Detail Document  |                                  |
| Build Circuit Detail Document  Jeopardize and Espaiate Order   |                                  |
|  |                                  |
| Jeopardize and Escalate Order  |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document   |                                  |
| Jeobardize and Escalate Order  6. Distribute Word document Distribute Design Document  |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document I Resolve any Distribution Errors  |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document   Resorve any Distribution Errors Issue Design Layout Record (DLR)   |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document   Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document   |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document   Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document   |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document   Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document   |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document   Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document   |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document   Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document  DISCONNECT  1. Order Handling/Screening  |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document I Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document  DISCONNECT  1. Order Handling/Screening Check for Order Accuracy   |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document   Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document  DISCONNECT  1. Order Handling/Screening Check for Order Accuracy Check SOAC for RMA's  |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document I Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document  DISCONNECT  1. Order Handling/Screening Check for Order Accuracy   |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document   Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document  DISCONNECT  1. Order Handling/Screening Check for Order Accuracy Check SOAC for RMA's  |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document I Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document  DISCONNECT  1. Order Handling/Screening Check for Order Accuracy Check SOAC for RMA's Verify A & Z Location in RDLOC   |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document I Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document  DISCONNECT  1. Order Handling/Screening Check for Order Accuracy Check SOAC for RMA's Verify A & Z Location in RDLOC   |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document I Resorve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document  DISCONNECT  1. Order Handling/Screening Check for Order Accuracy Check SOAC for RMA's Verify A & Z Location in RDLOC Access TIRKS for Circuit  |                                  |
| Jeobardize and Escalate Order  6. Distribute Word document Distribute Design Document I Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document  DISCONNECT  1. Order Handling/Screening Check for Order Accuracy Check SOAC for RMA's Verify A & Z Location in RDLOC Access TIRKS for Circuit  2. GOC Order Logging  |                                  |
| Jeopardize and Escalate Order  6. Distribute Word document Distribute Design Document   Resolve any Distribution Errors Issue Design Layout Record (DLR) Issue Word Document  DISCONNECT  1. Order Handling/Screening Check for Order Accuracy Check for Order Accuracy Check SOAC for RMA's Verify A & Z Location in RDLOC Access TIRKS for Circuit  2. GOC Order Logging Access TIRKS (WA. PCFLOW. GCNOTE) |                                  |

### PRIVATE LINE SERVICES

| Jan-95:  SERVICE DELIVERY DESIGN ANALOG PROCESS  Work Activity Descriptions  INSTALL  1. Order Handling/Screening  Check for Order Accuracy  Check Service Order Analysis and Control (SDAC) for Request for Manual Assist  Venty A & Z Location in RDLOC  Access Trunks Integrated Record Keeping System (TIRKS) for Circuit  Check Order for Coordination Time (if not available)   |   |
|---|---|
| Work Activity Descriptions  INSTALL  1. Order Handling/Screening  Check for Order Accuracy  Check Service Order Analysis and Control (SDAC) for Request for Manual Assist  Venty A & Z Location in RDLOC  Access Trunks Integrated Record Keeping System (TIRKS) for Circuit  |   |
| INSTALL  1. Order Handling/Screening  Check for Order Accuracy  Check Service Order Analysis and Control (SOAC) for Request for Manual Assist  Venty A & Z Location in RDLOC  Access Trunks Integrated Record Keeping System (TIRKS) for Circuit  |   |
| 1. Order Handling/Screening  Check for Order Accuracy  Check Service Order Analysis and Control (SOAC) for Reduest for Manual Assist  Verify A & Z Location in RDLOC  Access Trunks Integrated Record Keeping System (TIRKS) for Circuit  |   |
| 1. Order Handling/Screening  Check for Order Accuracy  Check Service Order Analysis and Control (SOAC) for Reduest for Manual Assist  Verify A & Z Location in RDLOC  Access Trunks Integrated Record Keeping System (TIRKS) for Circuit  |   |
| 1. Order Handling/Screening  Check for Order Accuracy  Check Service Order Analysis and Control (SDAC) for Reduest for Manual Assist  Venty A & Z Location in RDLOC  Access Trunks Integrated Record Keeping System (TIRKS) for Circuit   | :   |
| Check for Order Accuracy  Check Service Order Analysis and Control (SOAC) for Request for Manual Assist  Verify A & Z Location in RDLOC  Access Trunks Integrated Record Keeping System (TIRKS) for Circuit   | :<br>———————————————————————————————————— |
| Check Service Order Analysis and Control (SOAC) for Request for Manual Assist Verify A & Z Location in RDLOC Access Trunks Integrated Record Keeping System (TIRKS) for Circuit   |   |
| Venty A & Z Location in RDLOC  Access Trunks Integrated Record Keeping System (TIRKS) for Circuit   |   |
| Access Trunks Integrated Record Keeping System (TIRKS) for Circuit  | ance (RMA's)                              |
|   |   |
|   | ·   |
| Contract Contract to Contract | <del></del>                               |
| Cali Order Ondinator to ask for Coordination  |   |
| Can Order Originator to ask for Coordination  | <u> </u>                                  |
|   | •   |
| 2. Generic Order Control (GOC) Order Logging  | ·   |
| Access TIRKS (Work Authorization (WA), PCFLOW, GCNOTE)  |   |
| Venty Order in Service Processor  | ·   |
| Screen and Log GOC  | <del>:</del>                              |
| Put Remans in GCNOTE Order Manually Logged  | <del></del>                               |
| With the state of the second states   |   |
| - FWA Mask  | !   |
| 2. Enter WA Mask  |   |
| Check Availability of Facilities in TIRKS   |   |
| Acc Required Data to WA Screen  |   |
| Venty that WA Screen Matches Service Order  |   |
| Manually input WA Screen 1  | <del></del>                               |
|   | <del></del>                               |
| 4. Prepare Loop/Design Related Information (DRI) Screen   | <del></del>                               |
|   | <del></del>                               |
| Venty that Loop Facilities Assignment and Control System (LFACS) Assignments  | & TIRKS Agree                             |
| Check information on LPADM, DRI, LOOP2 and CD Screen :  | !   |
| Resorve Design Related Information (DRI) Errors   | !   |
| Resolve Local Loop Errors i   | <u> </u>                                  |
| Manually load the LPADM, DRI, LOOP2, and CD Screen  | <del></del>                               |
|   | <del></del>                               |
| 5. Circuit Design   | <del></del>                               |
|   | <u> </u>                                  |
| Check GCNOTE or PCFLOW for error  |   |
| Resolve Facility, Assignment or Equipment Issues with Communications Process  | or (CP)                                   |
| Resolve Circuit Detail Errors   | ;   |
| Build Circuit Detail Document   | ;   |
| Jeopardize and Escalate Order   |   |
|   |   |
| E. Distribute Word document   | <del></del>                               |
|   | :<br>                                     |
| Distribute Design Document (  | <u> </u>                                  |
| Resorve any Distribution Errors   | 1   |
| Issue Design Lavout Record (DLR)  | i   |
| Issue Word Document :   |   |
|   | <del></del>                               |
|   | <del></del>                               |
| DISCONNECT  | <del></del>                               |
|   | :<br>                                     |
| 1. Order Handling/Screening   |   |
| Check for Order Accuracy  | 1   |
| Check SOAC for RMA's  | <u>;</u>                                  |
| Venty A & Z Location in RDLOC   | !   |
| Access TIRKS for Circuit  | ·   |
|   |   |
| 2 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | ·   |
| 2. GOC Order Logging  | :   |
| Access TIRKS (WA, PCFLOW, GCNOTE)   | :   |
|   | i   |
| Verify Order in Service Processor :   |   |
|   | 1   |
| Verify Order in Service Processor  Screen and Log GOC  Put Remans in GCNOTE Order Manually Logged   | 1   |

## **CENTRAL OFFICE**

Responsible for service connection in the central office and associated testing and administrative functions. Places cross-connects (jumpers), performs cross-office testing, and provides support to field installation and control center for circuit testing as required.

## TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- ► The time estimates and probability of occurrence are forward-looking. If possible, a 12-18 month time horizon should be considered. Anticipated process efficiencies and/or mechanization are examples of forward-looking assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems encountered during the work activities to process the service order. System downtime or times spent resolving internal order flow procedures are examples of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

## UDIT NRC PRICING - COT -

| POINT DS0 UDIT   |           |             |
|--|-----------|-------------|
| lyze Order (2 technicians)   |           | ·           |
| tact CCT-I to work order (2 technicians)   | 5 min     | <u> </u>    |
| aplete DS0 cross-connect (2 technicians)   | na na     | <u></u>     |
| orm Line/Drop Testing (2 technicians)  | 4 min     |             |
| aplete Conformance Testing (2 technicians)   | 8 min     |             |
| work request complete in WFA-DI (2 technicians)  | 15 min    |             |
| aplete work request with CCT-I (2 technicians)   | 2 min     | <u></u>     |
| POINT DS1 UDIT   | 3 min     | <u> </u>    |
| lyze Order (2 technicians)   |           |             |
| tact CCT-I to work order (2 technicians)   | 5 min     |             |
| aplete DSX1 cross-connect (2 technicians)  | na        |             |
| e Loopback Test Plug (1 technician)  | 4 min     |             |
| aplete Conformance Testing (1 technician)  | 2 min     | :           |
|  | l hour    |             |
| work request complete in WFA-DI (2 technicians) uplete work request with CCT-I (2 technicians) | 2 min     |             |
| POINT DS3 UDIT   | 3 min     | :           |
|  |           |             |
| lyze Order (2 technicians)   | 5 min     |             |
| tact CCT-I to work order (2 technicians)   | na        |             |
| aplete DSX3 cross-connect (2 technicians)  | 4 min     |             |
| e Loopback Test Plug (1 technician)  | 2 min     |             |
| aplete Conformance Testing (1 technician)  | 1 hour    | :           |
| work request complete in WFA-DI (2 technicians)  | 2 min     |             |
| plete work request with CCT-I (2 technicians)  | 3 min     |             |
| HIGH SIDE (1 OFFICE)   | ?         |             |
| lyze Order (1 technician)  | 5 min     |             |
| tact CCT-I to work order (1 technician)  | na        |             |
| aplete DSX3 cross-connect (1 technician)   | 4 min     | i           |
| e Loopback Test Plug (1 technician)  | 2 min     |             |
| plete Conformance Testing (1 technician)   | 5 min     |             |
| work request complete in WFA-DI (1 technician)   | 2 min     | <del></del> |
| plete work request with CCT-I (1 technician)   | 3 min     |             |
| OW SIDE (1 OFFICE) - efficiencies for working 28 orders concurrent with high s                 | ide orden |             |
| lyze Order (1 technician)-28 DSIs  | 2 min.    |             |
| tact CCT-l to work order (1 technician)  | na na     |             |
| apiete DSX1 cross-connect (1 technician)-28 DS1s   | 4 min     |             |
| e Loopback Test Plug (1 technician)-28 DS1s  | 2 min     | <del></del> |
| plete Conformance Testing (1 technician)   | 15 min    |             |
| work request complete in WFA-DI (1 technician)-28 DS1s   | 2 min     |             |
| aplete work request with CCT-I (1 technician)-28 DS1s  |           | 1           |
| HIGH SIDE (1 OFFICE)   | 2 min.    |             |
| lyze Order (1 technician)  |           |             |
| tact CCT-l to work order (1 technician)  | 5 min     |             |
| iplete DSX1 cross-connect (1 technician)   | <u>na</u> |             |
| e Loopback Test Plug (1 technician)  | 4 min     |             |
| aplete Conformance Testing (1 technician)  | 2 min     |             |
| work request complete in WFA-DI (1 technician)   | 5 min     |             |
| iplete work request with CCT-I (1 technician)  | 2 min     |             |
| LOW SIDE (1 OFFICE)  | 3 min     |             |
| lyze Order (1 technician)-24 DS0s  |           |             |
| tact CCT-I to work order (1 technician)  | 5 min     | ·           |
| iplete DS0 cross-connect (1 technician)-24 DS0s  | na        |             |
|  | 4 min     |             |
| iplete Line/Drop testing (1 technician)-24 DS0s  | 15 min    | i           |
| work request complete in WFA-DI (1 technician)-24 DS0s   | 2 min     |             |
| plete work request with CCT-I (1 technician)-24 DS0s   | 3 min     | <del></del> |
|  |           | ;           |

Updated: 10-15-99

## UDIT NRC PRICING - COT -

| DISCONNECT (ALL ORDERS)                             | 22 L. C. |         |                       |  |
|---|----------|---------|-----------------------|--|
| talyze Order  | 5 min    | 2 min   | 3-1 mux efficiencies  |  |
| emove Cross-connect                                 | 2.3 min  | 2.3 min | : 1                   |  |
| omplete work request in WFA-DI                      | 2 min    | 2 min   | .3-1 mux efficiencies |  |
|   |          |         | :                     |  |
|   |          |         |                       |  |
|   |          |         | <u> </u>              |  |
| RE-ARRANGE ORDER                                    | P        |         | . :                   |  |
| nalyze Order (2 technicians)                        | 5 min    |         |                       |  |
| ontact CCT-I to work order (2 technicians)          | 3 min    |         |                       |  |
| emove Cross-connect                                 | 2.3 min  |         | i :                   |  |
| omplete DS0 cross-connect (2 technicians)           | 4 min    |         |                       |  |
| rform Line/Drop Testing (2 technicians)             | 8 min    |         |                       |  |
| omplete Conformance Testing (2 technicians)         | 15 min   |         |                       |  |
| ost work request complete in WFA-DI (2 technicians) | 2 min    |         |                       |  |
| omplete work request with CCT-I (2 technicians)     | 3 min    |         |                       |  |
|   |          |         |                       |  |
| DUCT TEAM UPDATE                                    |          |         | 1                     |  |
| DY BUCKMASTER                                       |          |         |                       |  |
| 99  | i        |         | !                     |  |

Updated: 10-15-99

## CENTRAL OFFICE TECNICIAN

| INSTALL  |              |          |
|--|--------------|----------|
| EXTENDED UDIT                                      | - Comments   | <b>=</b> |
| Analyze Order (1 technician)                       | 5 mg         |          |
| 3. Complete DSX cross-connect (1 technician)       | 4 mi         |          |
| 5. Complete Continuity/Stress tests (1 technician) | 1 hou        |          |
| 6. Post work request complete in WFA-DI (1 techni  | ician) 2 min |          |

| DISCONNECT                         | -       |
|------------------------------------|---------|
| 1. Analyze Order                   | 5 min   |
| 2. Remove Cross-connect            | 2.3 min |
| 3. Complete work request in WFA-DI | 2 min   |

COT performs cross connects activities in USW wirecenter, dispatch made to CLEC wirecenter.

Source: Mike Lanuoe - Staff Manager

Oct-99

## UDIT REARRANGEMENT

Dual office - 2 technicians involved Single office - 1 technician involved

|    | RE-ARRANGE ORDER                                     |         |
|----|--|---------|
|    | Analyze Order (2 technicians)                        | 5 min   |
| 12 | . Contact CCT-I to work order (2 technicians)        | 3 min   |
| 3  | . Remove Cross-connect                               | 2.3 min |
| +  | . Complete DS0 cross-connect (2 technicians)         | 4 min   |
| 5  | . Perform Line/Drop Testing (2 technicians)          | 8 min   |
| 6  | . Complete Conformance Testing (2 technicians)       | 15 min  |
|    | Post work request complete in WFA-DI (2 technicians) | 2 min   |
| 8  | Complete work request with CCT-I (2 technicians)     | 3 min   |

Source: Cindy Buckmaster - Project Manager Oct-99

# **IMPLEMENTOR**

Has overall control responsibility for provisioning, maintaining, coordination and testing of designed services.

Contacts other centers/technicians for the coordinated effort to complete service order activity requirements.

Tests with central office, field installation personnel as necessary. Provides test results to customer.

Notify customer of work completed

Complete order in required systems (Work Force Administration)

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

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  assumptions the estimates are to include.
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- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

# UNBUNDLED DEDICATED INTEROFFICE TRANSPORT

| UNBUNDLED DEDICATED  | COST ELEMENT         | COST ELEMENT        | COST ELEMENT        |                                       |
|--|----------------------|---------------------|---------------------|---------------------------------------|
| INTEROFFICE TRANSPORT  | DSO                  | DS1                 | DS3                 | i                                     |
| INTEROFFICE TRANSPORT  | 4 1                  |                     |                     | ļ                                     |
| INDI FILENTON  |                      |                     |                     |                                       |
| IMPLEMENTOR  |                      |                     |                     |                                       |
| WORK ACTIVITY  |                      |                     |                     |                                       |
| <u>INSTALL</u>   |                      |                     |                     | <del></del>                           |
| SCREEN WFA FOR CIRCUIT   | 10                   | 10                  | 10                  | ·                                     |
| VERIFY LNO COMPLETION  | 10                   | 10                  | 10 ·                | <del></del>                           |
| TEST CKT   | 15                   | 0                   | 0                   |                                       |
| NOTIFY CUSTOMER  | 5                    | 5                   | 5                   | <del></del>                           |
| COMPLETE CKT IN WFA/C  | 10                   | 10                  | 10                  |                                       |
|  |                      |                     |                     | <del></del>                           |
|  |                      |                     |                     | · · · · · · · · · · · · · · · · · · · |
|  |                      |                     |                     |                                       |
| <u>DISCONNECT</u>  |                      |                     |                     | <del></del>                           |
| SCREEN WFA FOR CIRCUIT   | 5                    | 5                   | 5                   | <u> </u>                              |
| CONTACT CUSTOMER   | 5                    | 5                   | 5                   | <del></del>                           |
| COMPLETE CKT IN WFA/C  | 5                    | 5                   | 5                   |                                       |
|  |                      | <del></del>         |                     | <u>. i</u>                            |
|  |                      |                     |                     |                                       |
|  |                      |                     | !                   |                                       |
| NOTE:  |                      | <u>:</u>            |                     |                                       |
| The above information is estimated times   | for activities perfe | rmed by the imple   |                     |                                       |
| the Designed Service Center to support the   | ne Dedicated Trans   | coot                | inentor in          |                                       |
|  | TO DODING THEIR      | sport               |                     |                                       |
| The times documented above are average   | e estimator          |                     |                     |                                       |
| They do not reflect times spent for supple   | ment to the order    |                     | <del></del>         |                                       |
| They do not reflect problems with the order  | er or redecion ice:  |                     | <del></del>         |                                       |
| They do not reflect translations or program  | ming problems        | 105.                | <del></del>         |                                       |
| They do not reflect problems or trouble w  | ith systems or with  | the sustance        |                     |                                       |
| All times are based on a service order wit   | h no problems on     | the customer.       | <u> </u>            |                                       |
| All times represent one ckt per order.   | problems en          | contreted at test & | turnup.             | <u> </u>                              |
| A full compliment of test are required on t  | he DS3 and DS4       | The Control Office  | ·                   | 1                                     |
| A full compliment of test are required on t<br>The DSO tests will be performed by the Ir | miemente:            | ine Central Office  | e rech will perform | these tests.                          |
| Attached are the functions associated with   | the store            |                     |                     |                                       |
|  | ule steps perior     | ned by the implem   | entor.              | i                                     |
|  |                      |                     |                     |                                       |
|  | <u>i</u>             | <u> </u>            |                     |                                       |
|  |                      |                     |                     |                                       |
| SOURCE:  |                      |                     |                     |                                       |
| Linda Hendricks  |                      |                     |                     |                                       |
| DESIGN CENTER STAFF  |                      | i                   |                     |                                       |
| 5/98   | !                    |                     |                     | !                                     |
|  |                      |                     |                     |                                       |
| Review 5/99 Linda Hendricks :  | ·                    | !                   |                     | !                                     |

|  | COST         | LEMENT       | COST         | LEMENT   |  | <b>:</b>                              |
|--|--------------|--------------|--------------|--|--|---------------------------------------|
| UNBUNDLED DEDICATED                        | DS1          | /DS0         | DS3/DS1      |  | 1  | <u> </u>                              |
| INTEROFFICE TRANSPORT                      | <b>→</b>     | LOW SIDE     | 1            | LOW SIDE                                       | <del></del>                                  |                                       |
| MULTIPLEXING                               | per order    | per order    | per order    | per order                                      | :  |                                       |
| IMPLEMENTOR                                | 1            |              | -            | i  | :  |                                       |
| WORK ACTIVITY                              | <del> </del> | <del></del>  |              | ,  | <del> </del>                                 | <del></del>                           |
| INSTALL                                    | <del> </del> | 1            | <del> </del> |  | <del> </del>                                 | <del></del>                           |
| SCREEN WFA FOR CIRCUIT                     | 10           | : 10         | 10           | 2  |  |                                       |
| VERIFY LNO COMPLETION                      | 10           | : 10         | 10           | 10"  |  |                                       |
| TEST CKT                                   | 0            | i O          | 0            | . 0  | <del> </del>                                 | ,                                     |
| NOTIFY CUSTOMER                            | 5            | : 5          | 5            | 1.   |  |                                       |
| COMPLETE CKT IN WFA/C                      | 10           | - 10         | 10           | 2  |  |                                       |
| activity occurs once for all 28 orders.    |              | !            |              | !  |  | 1                                     |
|  |              | :            | ·            | 1  | !  | ·                                     |
|  |              | :            |              |  | j  |                                       |
| DISCONNECT                                 |              | !            |              | i  | :  |                                       |
| SCREEN WFA FOR CIRCUIT                     | 5            | 5            | 5            | 2  | :  | :                                     |
| CONTACT CUSTOMER                           | 5            | 5            | 5            | 1-   | :  |                                       |
| COMPLETE CKT IN WFA/C                      | 5            | 5            | 5            | 2  | i  |                                       |
| activity occurs once for all 28 orders.    |              | :            | i            |  | . :  |                                       |
|  | :            | i            | !            | ;  |  | ,                                     |
|  | :            | ;            | !            |  | ;  | :                                     |
| NOTE:                                      | ;            | :            | !            | :  | !  |                                       |
| The above information is estimated time    | s for activi | ties perform | ned by the   | implemen                                       | tor in                                       | ş.                                    |
| the Designed Service Center to support     | the Dedica   | ted Transp   | ort          |  | ;  | į                                     |
|  | :            |              | 1            | Į·   |  |                                       |
| The times documented above are average     | ge estimate  | <b>25</b> .  | !            |  |  | i                                     |
| They do not reflect times spent for suppl  |              |              |              | 1  |  | :                                     |
| They do not reflect problems with the or   |              |              | 5.           | j  | !  |                                       |
| They do not reflect translations or progra |              |              | 1            | }  | :  |                                       |
| They do not reflect problems or trouble    |              |              |              |  | !  |                                       |
| All times are based on a service order w   | ith no prob  | lems enco    | untered at   | test & turn                                    | up.  | 1                                     |
| All times represent one ckt per order.     | :            | !            | 1            | <u>i                                      </u> | <u>:                                    </u> |                                       |
| A full compliment of test are required or  |              |              |              | Office Ter                                     | ch will perform these                        | tests.                                |
| The DSO tests are line/drop tests perfor   |              |              |              | !  | <u> </u>                                     |                                       |
| It is assumed DS0 (low side) orders will   |              |              | ne time DS   | 1 (high sid                                    | ie) order is worked.                         |                                       |
| DS0 orders can be installed on a subsec    |              |              |              |  | 1  |                                       |
| For DS3/DS1 MUX orders, the high side      |              |              |              |  | must be completed                            | at the                                |
| same time. Efficiencies are gained by v    | vorking all  | 28 orders a  | at the same  | time.  |  |                                       |
|  | <u> </u>     | 1            |              | <u> </u>                                       |  |                                       |
| SOURCE:                                    | <del></del>  |              |              |  | !  | · · · · · · · · · · · · · · · · · · · |
| Linda Hendricks                            | !            | 1            |              | <u> </u>                                       |  | !                                     |
| DESIGN CENTER STAFF                        |              | i            |              |  | !  |                                       |
| 5/98                                       | 1            | i            | !            | :  | 1  | :                                     |
| Review 5/99 Linda Hendricks                |              | !            | i            | 1  | 1  |                                       |

|   | COST ELEMENT              | COST ELEMENT                    |
|---|---------------------------|---------------------------------|
| EXTENDED UNBUNDLED DEDICATED INTEROFFICE TRANSPORT  | DS0                       | DS1/DS3                         |
| IMPLEMENTOR   | per order                 | per order                       |
| WORK ACTIVITY   | minutes                   | minutes                         |
| INSTALL SCREEN WFA FOR CIRCUIT VERIFY LNO COMPLETION COORD TIME WITH CLEC. TECHS TO TEST TEST CIRCUIT NOTIFY CUSTOMER COMPLETE CIRCUIT IN WFA/C | 15<br>10<br>20<br>15<br>5 | 15<br>10<br>20<br>35<br>5<br>10 |
| DISCONNECT SCREEN WFA FOR CIRCUIT CONTACT CUSTOMER COMPLETE CIRCUIT IN WFA/C  | 5<br>5<br>5               | 5<br>5<br>5                     |

NOTE: The times documented above are average estimates.

They do not reflect times spent for supplement to the order.

They do not reflect problems with the order or redesign issues.

They do not reflect problems or trouble at test, with systems or with the customer.

All times are based on a perfect service order and no problems encountered at test & turnup.

Each circuit is ordered individually and tested individually.

This process aplies regardless of whether a dispatch is required or not.

Attached are the functions associated with the steps performed by the Implementor.

SOURCE. LINDA HENDRICKS - STAFF MANAGER

DATE 03/08/01

Review 3/01 Deni Toye, Marlene Mirian

|   | COST ELEMENT              | COST ELEMENT              |
|---|---------------------------|---------------------------|
| UDIT<br>REARRANGEMENT   | DS0<br>SINGLE<br>DUAL     | HICAP<br>SINGLE<br>DUAL   |
| IMPLEMENTOR<br>WORK ACTIVITY  | office<br>per orae:       | OFFICE<br>per order       |
| SCREEN WFA FOR CIRCUIT VERIFY LNO COMPLETION TEST CIRCUIT NOTIFY CUSTOMER COMPLETE CIRCUIT IN WFA/C | 10<br>10<br>15<br>5<br>10 | 10<br>10<br>15<br>5<br>10 |
|   |                           |                           |

NOTE: The times documented above are average estimates.

They do not reflect times spent for supplement to the order.

They do not reflect problems with the order or redesign issues.

They do not reflect problems or trouble at test, with systems or with the customer.

All times are based on a perfect service order and no problems encountered at test & turnup.

Each circuit is ordered individually and tested individually.

This process aplies regardless of whether a dispatch is required or not.

Attached are the functions associated with the steps performed by the Implementor.

#### SOURCE:

LINDA HENDRICKS, IMPLEMENTOR CENTER STAFF CINDY BUCKMASTER - PROJECT MANAGER DATE 12/99

#### Install

#### 1. Screen WFA-C for Order accuracy.

The CCT-I accesses the WFA-C OSSLST (Order List) screen to examine and prioritize order load by Critical Date.

The CCT-I accesses the WORD document on the OWDDOC (WORD Document) screen to examine work request.

The CCT-I locates the installation option of the work request on the WORD document and determines if additional work steps must be created for the Central Office Technician (i.e., DD work activities).

If the order request is for a Coordinated Installation Option, the CCT-I determines the "Appointment Time". If No "Appointment Time" has been specified, the CCT-I contacts the Service Delivery Coordinator (SDC) via telephone to obtain an "Appointment Time".

Once the "Appointment Time" has been determined, the CCT-I builds the Central Office DD work request on the WFA-C OSSCWL (Circuit Work Location) screen specifying the requested "Appointment Time".

The CCT-I updates the WFA-DO DOSOI (Service Order Installation) screen with the "Appointment Time".

The CCT-I notifies the CORAC and LRAC of the Coordinated work request via a telephone call.

The CCT-I examines the Circuit Details portion of the WORD document for circuit design completeness.

The CCT-I sets any other pertinent Calendar (CAL) events on the WFA-C OSSLST (Order List) screen.

The CCT-I complete the SCR Critical Date on the WFA-C OSSOI (Order Installation) screen.

#### 2. Verify LNO completion.

The CCT-I verifies the LNO (Central Office and/or I&M technician has completed the physical work required on the work request for DVA and DD. Typically, DVA will post automatically at the item level once all of the DVA dates have been met at the Circuit

If CWLs have not been completed by the DVA date, the CCT-I notifies the Central Office to complete the CWLs.

If the physical work cannot be completed, the CCT-I posts a jeopardy against the DVA date. The current Designed Services Jeopardy process is then followed.

If a Coordinated Cut has been requested, the CCT-I will call the Co-Provider to receive and "OK" to begin work. If the work cannot be completed on DD because the Co-Provider is not ready, the CCT-I places a "C" code jeopardy against the order. The current Designed Services Jeopardy process is then followed.

If the work cannot be completed on DD because of a USW problem, the CCT-1 will post the appropriate jeopardy code against the DD. The current Designed Services Jeopardy process is then followed.

The CCT-I makes the appropriate remark entries into the WFA-C OSSLOG (Work Request Log).

#### 3A. Montitor Performance Testing.

The CCT-I monitors and records the test results on the WFA-C OSSCN (Circuit Notes) screen. These test results are obtained by the Central Office technician and the DS I&M technician testing the newly provisioned circuit. The tests performed are listed i

#### 3B. Complete Performance Testing.

In cases where the CCT-I is able to test, the testing is performed with the DS 1&M Technician. The CCT-I records the test results on the WFA-C OSSCN (Circuit Notes) screen. The tests performed are listed in the Test Requirement document attached.

#### 4. Coordinate Cooperative Testing

The CCT-I acts as the central contact between the DS I&M technician and the Co-Provider.

The CCT-I notes the tests performed and enters the result information on the WFA-C OSSCN (Circuit Notes) screen.

The CCT-I records any pertinent remarks on the WFA-C OSSLOG (Work Request Log).

### 5. Notify Co-Provider of order completion.

The CCT-I notifies the Co-Provider that the work request is completed.

The CCT-I informs the Co-Provider of any additional charges that will apply.

The CCT-I provides required test result information to the Co-Provider.

The CCT-I records the Co-Provider order completion contact information on the WFA-C OSSLOG (Work Request Log).

#### 6. Post order complete in WFA-C.

The CCT-I posts the Due Date complete on the WFA-C OSSOI (Order Installation) screen.

The CCT-I completes any additional remarks on the WFA-C OSSLOG (Work Request Log).

The CCT-I completes any required electronic billing or rebates in WFA-C.

#### Disconnect

#### 1. Screen WFA-C for Order accuracy.

Screen OSSLST

Verify information on WORD document

Refer WORD document back to Designer if not accurate

Check for Co-Provider work locations involved on order

Enter note if Co-Provider involved on OSSCN

Check for remote test capability and hand-off to Designer or LNO if appropriate

Check to see if item is loaded in WFA-DI/DO

Assign Critical Dates

Enter name and number on DOISWR

#### 2. Contact Co-Provider

Notify customer work is complete

Add pertinent notes to OSSCN screen

If customer is not available, enter the following information on the OSSOI2 screen

No customer contact

Telephone Number called

#### 3. Complete circuit in WFA-C

Check WFA-C OSSLST for critical events

Check DISP for PRE status

Jeopardize and escalate to accommodate customer's need

Add additional billing charges

Complete order in WFA-C

Perform required tests

Contact Designer if required

# **TAB 47**

Subject: UDF CPMC Costing

Date: Tue, 05 Jun 2001 16:27:31 -0600

From: "James Christian" <jxchri2@uswest.com> Internal

Organization: U S WEST Communications, Inc.

To: ddeffle@uswest.com

CC: bbale@uswest.com, cdhuff@uswest.com, aromano@uswest.com

Attached is a listing of the work activities and times associated with processing a UDF request through the CPMC.

Jim Christian Sr. Process Analyst-Network 700 West Mineral Avenue, NM Littleton, Colorado 80120 (303)707-5131 Office (303)230-4540 Pager

Disclose and distribute only to employees of Qwest and it's affiliates having a need to know.

| Collocation Project Management Center (CPMC)   | Revision                        |
|--|---------------------------------|
| Outside Plant Team — Unbundled Dark Fiber (UDF)  | 6-14-01                         |
|  |                                 |
| WORK ACTIVITY FOR PROCESSING AN IRI  | Time - min                      |
| Check e-mail for UDF request - open file - review for completeness - save to desktop   | 2.0                             |
| Add basic data   | 0.5                             |
| Determine Planner by using Wire Center Information program   | 2.0                             |
| Add planner data to request and print Wire Center Information sheet  | 2.0                             |
| Compose and forward e-mail to planner - attach to request and forward to planner   | 2.0                             |
| Follow-up call with planner  | 15.0                            |
| Create virtual folders on desktop and move electronic data into folders  | 0.5                             |
| Print copy of e-mail to planner  | 2.0                             |
| Create physical folder and file  | 3.0                             |
| Enter request data into tracking system  | 5.0                             |
| Update response "due back" list  | 1.0                             |
| File physical folder   | 1.0                             |
| Verify status of planners response   | 15.0                            |
| Shared time for common phone calls, meetings, reports,   | 10.0                            |
| Receive and review response from planner   | 2.0                             |
| Add basic data   | 1.0                             |
| Compose and forward e-mail to ATR - attach to request and forward to ATR   | 2.0                             |
| Move file from desktop into results folder   | 0.5                             |
| Print copy of e-mail to ATR  | 2.0                             |
| Place copy of e-mail in physical folder  | 2.0                             |
| Total time   | 70.5                            |
|  |                                 |
|  |                                 |
|  |                                 |
| WORK ACTIVITY FOR PROCESSING A FVQP  |                                 |
| Check e-mail for UDF request - open file - review for completeness - save to desktop   | 2.0                             |
| Add basic data   | 0.5                             |
| Add planner data to request and print Wire Center Information sheet  | 2.0                             |
| Compose and forward e-mail to planner - attach to request and forward to planner   | 2.0                             |
| Follow-up call with planner  | 15.0                            |
| Create virtual folders on desktop and move electronic data into folders  | 0.5                             |
| Print copy of e-mail to planner  | 2.0                             |
| Create physical folder and file  | 3.0                             |
| Enter request data into tracking system  | 5.0                             |
| Update response "due back" list  | 1.0                             |
| File physical folder   | 1.0                             |
|  | 15.0                            |
| veniv status of planners response  | 10.0                            |
|  |                                 |
| Shared time for common phone calls, meetings, reports,   | . / 11                          |
| Shared time for common phone calls, meetings, reports, Receive and review response from planner  | 2.0                             |
| Shared time for common phone calls, meetings, reports, Receive and review response from planner Add basic data   | 1.0                             |
| Shared time for common phone calls, meetings, reports, Receive and review response from planner Add basic data Compose and forward e-mail to ATR - attach to request and forward to ATR  | 1.0<br>2.0                      |
| Receive and review response from planner Add basic data Compose and forward e-mail to ATR - attach to request and forward to ATR Move file from desktop into results folder  | 1.0<br>2.0<br>0.5               |
| Shared time for common phone calls, meetings, reports, Receive and review response from planner Add basic data Compose and forward e-mail to ATR - attach to request and forward to ATR Move file from desktop into results folder Print copy of e-mail to ATR   | 1.0<br>2.0<br>0.5<br>2.0        |
| Shared time for common phone calls, meetings, reports, Receive and review response from planner Add basic data Compose and forward e-mail to ATR - attach to request and forward to ATR Move file from desktop into results folder Print copy of e-mail to ATR Place copy of e-mail in physical folder | 1.0<br>2.0<br>0.5<br>2.0<br>2.0 |
| Shared time for common phone calls, meetings, reports, Receive and review response from planner Add basic data Compose and forward e-mail to ATR - attach to request and forward to ATR Move file from desktop into results folder Print copy of e-mail to ATR   | 1.0<br>2.0<br>0.5<br>2.0<br>2.0 |

| Collocation Project Management Center (CPMC)   | Revision   |
|--|------------|
| Outside Plant Team Unbundled Dark Fiber (UDF)  | 6-14-01    |
|  |            |
|  |            |
| WORK ACTIVITY FOR PROCESSING A PROVISIONING REQUEST  | ,          |
| Check e-mail for UDF request - open file - review for completeness - save to desktop       | 2.0        |
| Add basic data   | 0.5        |
| Add planner data to request and print Wire Center Information sheet                        | 2.0        |
| Compose and forward e-mail to planner - attach to request and forward to planner           | 2.0        |
| Follow-up call with planner  | 15.0       |
| Create virtual folders on desktop and move electronic data into folders                    | 0.5        |
| Print copy of e-mail to planner  | 2.0        |
| Create physical folder and file  | 3.0        |
| Enter request data into tracking system  | 5.0        |
| Update response "due back" list  | 1.0        |
| File physical folder   | 1.0        |
| Verify status of planners response   | 15.0       |
| Shared time for common phone calls, meetings, reports,                                     | 10.0       |
| Receive and review response from planner   | 2.0        |
| Add basic data   | 1.0        |
| Compose and forward e-mail to ATR - attach to request and forward to ATR                   | 2.0        |
| Move file from desktop into results folder   | 0.5        |
| Print copy of e-mail to ATR  | 2.0        |
| Place copy of e-mail in physical folder  | 2.0        |
| Fowrard completion data to ATR   | 2.0        |
| Total time   | 70.5       |
|  |            |
| •  |            |
|  |            |
| WORK ACTIVITY FOR PROCESSING A DISCONNECT  | Time - min |
| Check e-mail for UDF request - open file - review for completeness - save to desktop       | 2.0        |
| Add basic data   | 0.5        |
| Determine Planner by using Wire Center Information program                                 | 2.0        |
| Add planner data to request and print Wire Center Information sheet                        | 2.0        |
| Compose and forward e-mail to planner - attach to request and forward to planner           | 2.0        |
| Follow-up call with planner  | 15.0       |
| Create virtual folders on desktop and move electronic data into folders                    | 0.5        |
| Print copy of e-mail to planner  | 2.0        |
| Create physical folder and file  | 3.0        |
| Enter request data into tracking system  | 5.0        |
| Update response "due back" list  | 1.0        |
| File physical folder   | 1.0        |
|  | 15.0       |
| IVerity status of planners response  | 13.0       |
| Verify status of planners response  Shared time for common phone calls, meetings, reports, | 10.0       |

Subject: Cost2.xls

Date: Tue, 29 Jan 2002 15:35:28 -0700

From: jleonar@qwest.com

Organization: U S WEST Communications, Inc

To: Daniel Deffley <ddeffle@qwest.com>, Clyde Nowels <cnowels@qwest.com>,

Pat Finley <pifinle@qwest.com>

Dan,

Attached are the modifications discussed with regard to the "EV" element. I have named the new file "Cost2." The new file "Cost2" supersedes "Cost." Thanks for all of your help on this.

Janet

Cost2.xls

Name: Cost2.xls

Type: Microsoft Excel Worksheet (application/vnd.ms-excel)

Encoding: base64

Renamed - DARK FIBER ENGR TIMES DETAIL JAN 2002

#### Confidential - Disclose solely to QC employees with a fleed to know

| Line Line<br>Num Type    | Line<br>Description  | Time I<br>Estimatı |     |   | : 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: | rob Labor<br>#4 Code |
|--------------------------|--|--------------------|-----|---|--|----------------------|
| HEADER                   | DARK FIBER - INITIAL RECORDS INQUIRY SIMPLE  |                    |     |   |  |                      |
| 6100 GROUP               | PLANNING (OSP) OR IOF ENGR.  |                    |     |   |  |                      |
| 6100 COMMENT             | CHECK CONDUIT AND INNERDUCT AVAILABILITY   |                    |     |   |  |                      |
| 6100 COMMENT             | ALSO, CHECK LOCATION OF POI MANHOLE  |                    |     |   |  |                      |
| 1 WORKITEM               | Review records and data bases to identify potential UDF capacity                     | 120                | 1   |   |  |                      |
| Based on discussion with | h Clyde Nowels on 1/21/01, the 120 minutes on the simple inquiry breaks out as folio | ows:               | 1   |   |  |                      |
| 1 WORKITEM               | · ·  | 10                 | 1   | 0 | 0  | 0 34                 |
| 1 WORKITEM               |  | 15                 | 1   | 0 | 0  | 0 34                 |
| COMMENT                  | .50 probability of request not being IOF only  |                    |     |   |  |                      |
| 1 WORKITEM               |  | 10                 | 0.5 | 0 | 0  | 0 34                 |
| 1 WORKITEM               | · ·  | 15                 | 0.5 | 0 | 0  | 0 34                 |
| 1 WORKITEM               | ,  | 35                 | 0.5 | 0 | 0  | 0 34                 |
| 1 WORKITEM               | , , ,  | 15                 | 1   | 0 | 0  | 0 34                 |
| 1 WORKITEM               | ·  | 30                 | 1   | 0 | 0  | 0 34                 |
| 1 WORKITEM               | Open and detail proposal in CPD  | 10                 | 1   | 0 | 0  | 0 34                 |
| 1 WORKITEM               | Compile response to CPMC   | 10                 | 1   | 0 | 0  | 0 34                 |
| HEADER                   | DARK FIBER - INITIAL RECORDS INQUIRY COMPLEX   |                    |     |   |  |                      |
| 6100 GROUP               | OUTSIDE PLANT ENGINEERING - PLANNING (OSP)   |                    |     |   |  |                      |
| 6100 COMMENT             | CHECK CONDUIT AND INNERDUCT AVAILABILITY   |                    |     |   |  |                      |
| 6100 COMMENT             | ALSO, CHECK LOCATION OF POI MANHOLE  |                    |     |   |  |                      |
| 1 WORKITEM               | Check OSP (Outside Plant) records, identify const req., req field engr               | 150                | 1   | 0 | 0  | 0 34                 |
| Based on discussion wit  | h Clyde Nowels on 1/21/01, the 150 minutes on the complex inquiry breaks out as fo   | llows:             | 1   | • |  |                      |
| 1 WORKITEM               | Receive and review request   | 10                 | 1   | 0 | 0  | 0 34                 |
| 1 WORKITEM               | Access Database - TIRKS  | 15                 | 1   | 0 | 0  | 0.34                 |
| 1 WORKITEM               | Access Database - OSP-FM/CIMAGE  | 10                 | 1   | 0 | 0  | 0 34                 |
| 1 WORKITEM               | Navigate to work location in OSP-FM/CIMAGE and find work area                        | 15                 | 1   | 0 | 0  | 0 34                 |
| 1 WORKITEM               | Determine fiber availability - check OSP-FM/CIMAGE data and contact Field Engineer   | 35                 | 1   | 0 | 0  | 0 34                 |
| 1 WORKITEM               | ,  | 15                 | 1   | 0 | 0  | 0 34                 |
| 1 WORKITEM               | · · · · · · · · · · · · · · · · · · ·  | 30                 | 1   | 0 | Ō  | 0 34                 |
| 1 WORKITEM               | Open and detail proposal in CPD  | 10                 | 1   | 0 | 0  | 0 34                 |
| 1 WORKITEM               | Compile response to CPMC   | 10                 | 1 . | 0 | 0  | 0 34                 |

HEADER DARK FIBER - FIELD VERIFICATION AND QUOTE PREPARATION

| t .                        |   |     |     |            |        | 1.           |
|----------------------------|---|-----|-----|------------|--------|--------------|
| 6100 GHOUP                 | OUTSIDE PLANT ENGINEERING - PLANNING (OSP)  |     |     | •          |        |              |
| 1 WORKITEM                 | Receive and review request  | 10  | 1   | 0          | •      | 0.04         |
|                            | Access Database - TIRKS   | 15  | 1   | 0<br>0     | 0      | 0 34         |
|                            | Access Database - ospfm/cimage  | 10  | 1   | 0          | 0      | 0 34         |
| 1 WORKITEM                 | Navigate to work location in OSPFM/CIMAGE and find work area  | 15  | 1   | 0          | 0      | 0 34         |
| 1 WORKITEM                 | Verify fiber counts still spare and available - check TIRKS data  | 30  | 1   | 0          | 0      | 0 34         |
| 1 WORKITEM                 | Verify fiber counts still spare and available - create work prints  | 60  | 1   | 0          | 0<br>0 | 0 34<br>0 34 |
| 1 WORKITEM                 | Verify fiber counts still spare and available - open and detail proposal in CPD   | 90  | 1   | 0          | · ()   | 0 34         |
| 1 WORKITEM                 | Verify fiber counts still spare and available - prepare work package in CPD   | 30  | 1   | 0          | 0      |              |
| 1 WORKITEM                 | Send package to field engineer  | 5   | i   | 0          | 0      | 0 34         |
| 1 WORKITEM                 | Review returned information from field engr for modifications from actual or records errors   | 45  | 1   | 0          | _      | 0 34         |
| 1 WORKITEM                 | Compile response to CPMC for field findings   | 30  | 1   | 0          | 0<br>0 | 0 34         |
| 1 WORKITEM                 | Send field verification info received from field engr to records center for OSP records update  | 15  | 1   | 0          | 0      | 0 34         |
|                            | "大学"的"Control of the Control     | 1 . 10117. | U      | 0 34         |
| Based on discussion with   | Clyde Nowels on 1/21/01, the 50 engineering minutes displayed below would not be  | ::: | 1   |            |        |              |
| recovered if an IRI were n | not performed, please add to the CRS.   |     | •   |            |        |              |
|                            |   |     |     |            |        |              |
| 1 WORKITEM                 | Determine fiber availability - check OSP-FM/CIMAGE data and contact Field Engineer  | 35  | 1   | 0          | •      | 0.04         |
| 1 WORKITEM                 | Determine fiber availability - check planning tools to determine availability under 9.7.2.5   | 15  | 1   | 0          | 0<br>0 | 0 34         |
|                            |   |     | •   | U          | U      | 0 34         |
| Based on meeting 01/15/0   | 02, the following CPMC item also needs to be added to the CRS.  |     |     |            |        |              |
|                            |   |     |     |            |        |              |
| 3 WORKITEM                 | Determine planner by using wire center information program  | 2.0 | 1   |            |        | 43           |
| 5 11                       |   |     | •   |            |        | 43           |
| Dan, I do not understand   | how the IOF time overlaps, I will send a copy to Jim Christian to get with you.   |     |     |            |        |              |
| FUOD                       |   |     |     |            |        |              |
| FVQP                       |   |     |     |            |        |              |
|                            | IOF TACTICAL PLANNER  |     |     |            |        |              |
|                            | Assist Outside Plant Engineering as required  |     |     |            |        |              |
|                            | .5 prob is percent of time splice point inquiry made versus structure inquiry.  |     |     |            |        |              |
| 1 WORKITEM                 | Verify TIRKS and planned IOF job if OSP has difficulty in locating IOF fibers   | 15  | 0.5 | 0          | 0      | 0 13         |
|                            |   |     |     | •          | Ÿ      | 0 13         |
| Complex IRI                |   |     |     |            |        |              |
|                            | Verify records and planned IOF jobs   |     |     |            |        |              |
| 1 WORKITEM                 | Work with OSP Plant Engineering to determine if there are IOF fibers avail for MID POINT meet   | 15  | 0.5 | 0          | 0      | 0 13         |
| 2 WORKITEM                 | Verify for spare IOF fibers if CO-CO fibers are required (time per Central Office analyzed)   | 15  | 0.5 | 2          | 0      | 0 13         |
| 1 (P* 8 to ou              |   |     |     |            | · ·    | 0 13         |
| HEADER                     | DARK FIBER - ENGINEERING VERIFICATION   |     |     |            |        |              |
| 0 ADD                      |   |     |     |            |        |              |
| 2 GROUP                    | OUTSIDE PLANT ENGINEERING (OSP) - PLANNING  |     |     |            |        |              |
|                            |   |     |     |            |        |              |

# **TAB 48**

Subject: Time for CMC and Const.UDF Date: Fri, 28 Apr 2000 12:15:10 -0600

From: William Savage III <wsavage@uswest.com>

Organization: U S WEST Communications, Inc

To: ddeffle@uswest.com

Dan,

Here are the Tme increments for the CMC and the Splicers to Field Verify at a Splice Point.

Sorry I am late, Bill

William Savage Process Mngr. 303 707 7465

Time Increments for the CMC.doc

Name: Time Increments for the CMC.doc

Type: Microsoft Word Document (application/msword)

Encoding: base64

Time Increments for the Splicer.doc

Name: Time Increments for the Splicer.doc

Type: Microsoft Word Document (application/msword)

Encoding: base64

| 6100 | GROUP    | IOF TACTICAL PLANNER (Chuck Frauenfeld)  |     | I   |   |   | <del></del> |    |
|------|----------|--|-----|-----|---|---|-------------|----|
| 6100 | COMMENT  | Assist Outside Plant Engineering as required                                   |     | i   |   |   |             |    |
| 6100 | COMMENT  | .5 prob is percent of time splice point inquiry made versus structure inquiry. |     |     |   |   |             |    |
| 1    | WORKITEM | Verify TIRKS and planned IOF job if OSP has difficulty in locating IOF fibers  | 15  | 0.5 | 0 | 0 | 0           | 13 |
|      |          | CMC (BILL SAVAGE) TEST   |     |     |   |   |             |    |
|      |          | .5 prob is percent of time splice point inquiry made versus structure inquiry. |     |     |   | f |             |    |
| 1    | WORKITEM | Identify issues at the proposed location.                                      | 87  | 0.5 | 0 | 0 | 0           | 11 |
|      |          | SPLICER (BILL SAVAGE) TEST TEST  |     |     |   |   |             |    |
|      |          | .5 prob is percent of time splice point inquiry made versus structure inquiry. |     |     |   |   |             |    |
| 6100 | COMMENT  | 2 probability represents 2 splice technicians involvement and 2 fiber pairs.   |     |     |   |   |             |    |
|      |          | Travel time in metro area  | 60  | 0.5 | 2 | 0 | 0           | 11 |
|      |          | Selup for conformance lest   | 150 | 0.5 | 2 | Ō | 0           | 11 |
| 1    | WORKITEM | Conformance lest per fber  | 11  | 0.5 | 2 | 2 | Ō           | 11 |

# **TAB 49**

## SERVICE DELIVERY COORDINATOR

Wholesale markets – Service Delivery serve as the primary order provisioning contact for CLECs, Interexchange Carriers and Wireless customers who purchase complex wholesale and retail products and services (i.e., Private Line, Feature Group, LIS Trunking, Centrex Resale, Number Portability) from Qwest.

The center teams provide end-to-end order coordination from request through order completion and serve as the primary liaison for the customer for all downstream organizations.

#### TIME ESTIMATES AND PROBABILITIES OF OCCURRENCE

Nonrecurring cost studies are developed to include work activity time estimates and probabilities of occurrence as determined by Subject Matter Experts (SME) that represent a work center or work group identified in the processing and provisioning of a service. The SME is a recognized expert in regard to the processes and has experience with the work activities being estimated and in addition will consult with other subject matter experts that either manage or currently perform the work activities being studied.

Instructions provided to the SME's for the determination of time, estimates and probability of occurrence include the following key assumptions:

- The time estimates and probability of occurrence are forward-looking. If
  possible, a 12-18 month time horizon should be considered. Anticipated
  process efficiencies and/or mechanization are examples of forward-looking
  assumptions the estimates are to include.
- The time estimates are based on an average that does not include problems
  encountered during the work activities to process the service order. System
  downtime or times spent resolving internal order flow procedures are examples
  of time that is excluded.
- The time estimates do not include supplements to the initial order.
- The time estimates do not include any maintenance or repair times.

mation of upfront UDF Provisioning tasks

Subject: Confirmation of upfront UDF Provisioning tasls

Date: Tue, 28 May 2002 07:56:43 -0600

From: "Pat Finley" <pjfinle%USWEST@notes.uswc.uswest.com>

To: "Daniel V Deffley" <ddeffle@uswest.com>

CC: "Candace Mowers" <cmowers@notes.uswc.uswest.com>

Dan, this letter is to confirm that coincidental with ASR provisioning mechanization of UDF, the CPMC is not longer involved in the order to install dark fiber. This became available as of April 5, 2002. The SDCs (Service Delivery Coordinators) in the Wholesale Centers in Des Moines and Salt Lake City now receive the ASRs from CLECS, process the request and distribute the service order to downstream departments via IABS.

The process is exactly the same as what occurs for UDIT, which is also provisioned via the ASR. As I understand it, the SDCs replace the work that was performed by the Project Managers in the CPMC. If you have any other questions, I'm on 303 896-8466.

Subject: Cost Study

Date: Tue, 21 May 2002 10:37:36 -0600 From: "Cindy Kalakis" <ckalaki@qwest.com>

To: ddeffle@uswest.com

CC: "Terri McQuiston" <tporter@notes.uswc.uswest.com>

- , "Linda Kae Olsen" <lxolsen@notes.uswc.uswest.com>
  , "Ronda Bergstedt" <rbergst@notes.uswc.uswest.com>
  , "Nancy Chapman" <nljohns@notes.uswc.uswest.com>
- Dan:

Attached is the cost study spreadsheets for Private Line, Switched Access, LIS and UDIT.

I did a comparison on like functions and it seems we are in synch. There are some differences with the SHNS-SST because of the complexity of the product but I think we are either the same or justifiably different where appropriate between all the products.

If you need to get us all together again to discuss, let me know, I'll be happy to set up a meeting, or you can talk to the Product Process Specialist for each product if you have questions.

Thanks for your patience!

Cindy

(See attached file: SDC TIMES 2002-Summary-all prod.xls)

Name: SDC TIMES 2002-Summary-all

prod.xls

SDC TIMES 2002-Summary-all prod.xls

Type: Microsoft Excel Worksheet

(application/vnd.ms-excel)

Encoding: base64

| •                                       | INSTALL Time Estimates in Minutes          |                           |              |         |         |   |   |
|---|--|---------------------------|--------------|---------|---------|---|---|
|   | TRUNKS                                     |                           | l            |         |         |   |   |
| Item                                    | Work Activity                              | CONVERSION                | COLLO        | INSTALL | INSTALL | Change                                  | Notes   |
|   | Description                                | FROM ACCESS               | XIFER OF USE | FIRST   | EA ADDL |   | ,   |
|   |  |                           |              |         |         |   | This is the length of time it takes the SDC to pull up the  |
|   | ASR is received mechanically through       | }                         |              | }       | }       |   | ASR by ASR number in EXACT.   |
| Receive ASR mechanically                | EXACT on a mechanized work list            |                           |              | 1       |         |   | *90% of ASRs are mechanical   |
|   |  |                           |              |         |         |   | This is the time that it would take the SDC to manually   |
|   |  |                           |              | 1       | }       |   | input the information on all the EXACT screens.   |
| Receive ASR via FAX*                    | Input ASR into EXACT Manually              |                           |              | 10      |         |   | *10% of ASRs are manually faxed.  |
|   |  |                           |              |         |         |   | Entries are made to add order number, circuit ID and  |
|   |  |                           |              | }       |         |   | intervals to the service order. The address is validated  |
| Validate ASR in                         | Check for the accuracy of the ASR fields   |                           |              |         |         |   | for accuracy. TheQwest EXACT screens are populated  |
| EXACT                                   | and make sure all information is present   |                           |              | 10      |         |   | in this step.   |
|   | Check if customer is already established   |                           |              |         |         |   |   |
| Check Credit Info/Security              | with Qwest or if credit info is required.  | 1                         |              | 2       |         |   | This is done 100% of the time.  |
|   | CheckRDLOC screen to validate who          |                           |              |         |         |   |   |
| TIRKS                                   | owns the collocation.                      |                           |              | 3 5     | 1       | Ì                                       |   |
| TIRKS                                   | Check CBLP to validate if slot is spare    |                           |              | 5       |         |   | This is to verify if CCEA/SCCEA entries are valid.  |
|   | Check to make sure the address is premis   |                           |              |         |         |   |   |
| Validate address in TAG                 | valid                                      |                           |              | 3       | 1       |   | This is done 100% of the time.  |
|   | Check the IABS TICR table to ensure        |                           |              |         |         | 1                                       |   |
| ·                                       | rates are loaded for UDIT for customer's   |                           |              |         |         |   |   |
| Validate Contract Rates                 | contract.                                  |                           |              | 3       | 1       | 1                                       | This is done 100% of the time.  |
|   | Check to see if LOA is necessary. If LOA   |                           |              |         |         |   |   |
|   | is needed is it on file or does the SDC    |                           |              |         |         |   |   |
| Verify LOA*                             | need to request a new one.                 |                           |              | 5       |         | ]                                       | *65% of the time  |
|   | Make sure the circuit ID passed by the     |                           |              |         | I       |   |   |
| 1                                       | customer is the same on our TAXI           |                           |              |         |         | [                                       |   |
|   | records. Verify the BAN provided by the    |                           |              |         |         | ]                                       |   |
|   | cUSTOMER is accurate and if not            |                           |              |         |         |   |   |
| Verify TAXI                             | accurate locate the correct BAN.           |                           |              | 0       |         |   | Not required on new installations - only change orders.   |
|   | If the request is for co-provided service, |                           |              | 1       |         |   | The management of the second control of the second of the |
| 1                                       | the SDC must make sure all entries are     |                           |              | 1       |         |   |   |
| 1                                       | on the ASR and negotiate dates with the    | ļ                         |              |         |         |   |   |
| Coordinate as ICO                       | ICO.                                       | Ì                         |              | 8       |         | ]                                       | 35% of the time. per Rhonda Bergstadt   |
|   | Handling calls from the IXC change to co-  |                           |              |         |         | [ · · · · · · · · · · · · · · · · · · · |   |
| ĺ                                       | provider and from within the company       | !                         |              |         |         |   |   |
| Intra Company Calls                     | regarding the ASR.                         |                           |              | 13      |         | 1                                       |   |
| • |  |                           |              |         |         |   | You can only do one of these on an ASR. You cannot  |
|   |  |                           |              | į       |         |   | mechanically and manually FOC the same ASR.   |
| Mechanical FOC*                         | Mechanically confirm the ASR               |                           |              | 1       | 1       |   | *Mechanical FOC is 90%  |
| ,                                       | INSTALL                                    | Time Estimates in Minutes |              |         |         |   |   |
|   |  | <del></del>               | TRUNKS       |         |         |   |   |
| Item                                    | Work Activity                              | CONVERSION                | COLLO        |         | INSTALL | Change                                  | Notas   |
| PLGIII                                  |  |                           |              | FIRST   | EA ADDL | Silange                                 | Notes   |
|   | Description                                | FROM ACCESS               | X/FER OF USE | LIKOI   | EN YOUL | L                                       |   |

| Comment of the second        |   |             |              |                                       |  |             |  |
|------------------------------|---|-------------|--------------|---------------------------------------|--|-------------|--|
| <u> </u>                     |   |             | `            |                                       |  | <del></del> | *You can only do one of these on an ASR. You cannot        |
|                              | Manually confirm the ASR, print the   |             |              | ,                                     |  |             | mechanically and manually FOC the same ASR.                |
|                              | screen and fax to the customer. Includes  | i           |              |                                       |  |             | *Mechanical FOC is 90%                                     |
| Manually FOC*                | the FAX of the DLR.   |             |              | 6                                     |  |             | *Manual FOC is 10%   |
| 1                            | Send the order through the EXACT/TUF  |             |              | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · ·        |             | Maria Co 10 10 /0  |
| Distribute the order to IABS | module in TIRKS and into IABS.  | ł           |              | 1                                     |  |             | This is a mechanical process within EXACT.                 |
|                              |   |             |              |                                       |  |             | Check for correct rate elements/USOCs and                  |
|                              | Check to make sure the service order is   | ,           |              | <br>                                  |  |             | nonrecurring charges application.                          |
| Validate IABS Service order  | complete and accurate.  |             |              | 6                                     |  |             | *Order must be created from scratch                        |
|                              | Send order to RSOLAR, SOLAR or  |             |              | <del> </del>                          |  | l           |  |
| Distribute Service Order to  | SOPAD. This is automatically done when  |             | ļ            | I                                     |  |             |  |
| the SOPs                     | the order is processed in IABS.   |             |              | 11                                    |  |             |  |
|                              | Check the SOAC database for 3 success   |             |              | , <u> </u>                            |  |             | W 1997 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -               |
|                              | messages. This means the order has  |             |              |                                       |  | [           |  |
| Check SOAC                   | logged into TIRKS.  |             |              | 3                                     |  |             |  |
|                              | Check WFA for completion of service   |             |              |                                       |  |             |  |
| Check WFA                    | order.  |             |              | 3                                     | <u>.                                    </u> |             |  |
|                              | Add any additional information from WFA   |             |              |                                       |  |             |  |
|                              | that pertains to the service order. Make  |             |              |                                       |  |             |  |
|                              | sure IABS service order is accurate for   |             |              |                                       |  | 1           |  |
| Check IABS Service Order     | billing.  |             | l !          | 5                                     |  |             | Validate required FIDs are present.                        |
|                              | Type the correct codes to complete the  |             |              | l                                     |  |             |  |
| Complete IABS Service Order  | order in IABS.  |             |              | 11                                    |  |             |  |
|                              | Type correct information into EXACT and   | ,           |              | <u>.</u>                              |  | }           |  |
| Complete EXACT               | complete the ASR.   |             | , <u></u>    | 1                                     |  |             |  |
| Note EXACT                   | Make any applicable notes in EXACT  |             | ا . ـ        | 2                                     |  |             |  |
|                              | COMMENT   |             |              |                                       |  |             |  |
| U                            | SCONNECT  |             | Time Estima  |                                       |  | <u> </u>    |  |
| 12                           | Trar_l. A.stid.   | SOURCESION  | 2210         | . 1 2 1 2 1 2 1 2 1                   | JNKS<br>DISC                                 | Change      | lai_a_   |
| ltem                         | Work Activity   | CONVERSION  | COLLO        | DISC<br>FIRST                         | EA ADDL                                      | Change      | Notes  |
|                              | Description   | FROM ACCESS | X/FER OF USE | rikoi                                 | EA AUUL                                      | <b> </b>    | The in the length of the distance the ODO to will be       |
| Bassius ACD mash salasila    | ASR is received mechanically through  |             | , 1          | Ï                                     |  |             | This is the length of time it takes the SDC to pull up the |
| Receive ASR mechanically     | EXACT on a mechanized work list.  |             |              | 1                                     |  |             | ASR by ASR number in EXACT.                                |
| December ACD sile FAV        | LOUIS ACD INC. EVACT  |             |              | 40                                    |  | •           | This is the time that it would take the SDC to manually    |
| Receive ASR via FAX          | Input ASR into EXACT manually Make sure the circuit ID passed by the            |             | r            | 10                                    |  | ļ           | input the information on all the EXACT screens.            |
|                              | customer to be disconnected is the same   |             | . !          | }                                     |  |             |  |
|                              | on our TAXI records. Verify the BAN   | į           | . !          | İ                                     |  |             |  |
|                              | · · · · · · · · · · · · · · · · · · ·   |             | . 1          | l                                     |  | 1           |  |
| Verify TAXI                  | provided by the carrier is accurate and if not accurate locate the correct BAN. |             | į l          | _                                     |  |             |  |
| Verily TAXI                  | Make sure all necessary entries are   | ···         | ,            | 5                                     |  | ļ           | • • • • • • • • • • • • • • • • • • •                      |
| Validate ASR in EXACT        | present on the ASR.   | ı ,         | ı            | 5                                     |  | }           |  |
| Validate ASK III EAACT       | Verify all sub-circuits have been removed                                       |             |              |                                       | ļ  |             |  |
| Validate in TIRKS            | if muxed circuit.   |             | i l          |                                       |  | }           | a at 1 196.  |
| Validate in TIRNS            | Handling calls from the IXC change to co-                                       |             | r            | 3                                     | ļ  | ļ           | 3 % probability.   |
|                              | provider and from within the company  | i           | . !          | İ                                     |  | 1           |  |
| Intra-Company Calls          | regarding the ASR   |             | 1            | 5                                     |  |             |  |
| mita-Company Calls           | regarding the Mort  | <u></u>     |              |                                       | <u> 1</u>                                    | <u> </u>    |  |

|                              |   |             |              |              |         |        | *You can only do one of these on an ASR. You cannot mechanically and manually FOC the same ASR. *Mechanical FOC is 90%   |
|------------------------------|---|-------------|--------------|--------------|---------|--------|--|
| Mechanical FOC*              | Mechanically confirm the ASR                          |             | ļ            | 1            |         |        | *  |
|                              | Manually confirm the ASR, print the                   |             |              |              |         |        | · · · · · · · · · · · · · · · · · · ·  |
| ·                            | screen and fax to the customer. Includes              |             | 1            |              |         |        |  |
| Manually FOC*                | the FAX of the DLR.                                   |             |              | 6            |         |        |  |
|                              | Send the order through the EXACT/TUF                  |             |              |              |         |        |  |
| Distribute the order to IABS | module in TIRKS and into IABS.                        | -           |              | 1            |         |        |  |
|                              | Check to make sure the service order is               |             |              |              |         |        | The state of the s |
| Validate IABS Service order  | complete and accurate. Send order to RSOLAR, SOLAR or |             |              | 5            |         |        | * Create order from scratch  |
| Distribute Service Order to  | SOPAD. This is automatically done when                |             |              |              |         |        |  |
| the SOPs                     | the order is processed in IABS.                       |             |              | 1            |         |        |  |
|                              | Check the SOAC database for 3 success                 |             |              |              |         |        |  |
| ·                            | messages. This means the order has                    | ļ !         |              |              | 1 1     |        |  |
| Check SOAC                   | logged into TIRKS.                                    | ·           |              | 3            |         |        |  |
|                              | Check WFA for completion of service                   |             |              |              |         |        |  |
| Check WFA                    | order.  | 1           | [            | 3            |         | ,      |  |
| DI DI                        | SCONNECT  |             | Time Estima  | atës in Mini | utes    |        |  |
|                              |   |             | 3 4321       | TRU          | INKS    |        |  |
| item                         | Work Activity   | CONVERSION  | COLLO        | DISC         | DISC    | Change | Notes  |
|                              | Description   | FROM ACCESS | X/FER OF USE | FIRST        | EA ADDL |        |  |
|                              | Add any additional information from WFA               |             |              |              |         |        |  |
|                              | that pertains to the service order. Make              |             | 1            |              | ĺ       |        |  |
|                              | sure IABS service order is accurate for               |             |              |              | 1       |        | •  |
| Check IABS Service Order     | billing.  |             |              | 5            |         |        |  |
|                              | Type the correct codes to complete the                |             |              |              |         |        |  |
| Complete IABS Service Orde   |   |             |              | 1            | l       |        |  |
|                              | Type correct information into EXACT and               |             |              |              |         |        |  |
| Complete EXACT               | complete the ASR.                                     |             |              | 1            |         |        |  |
| Note EXACT                   | Make any applicable notes in EXACT                    |             |              | 2            |         |        |  |
|                              |   |             |              |              |         |        |  |

#### TASK DESCRIPTIONS

**Receive ASR** - If the ASR is received mechanically the SDC pulls up the ASR number from their work list and begins the next step of validating the ASR.

If the ASR is received manually via FAX the SDC must input all information from the paper copy on to the electronic screens.

Validate ASR in EXACT - Validating EXACT screens and reviewing the ASR for errors, adding additional information required for service order processing. Screens may include: ICORD, ICTRK, ICCKT, ICACI and ICNTS.

This includes verifying all information required to issue a 2 point or multiplexed circuit has been received.

Verify address in TAG - Check the Telephone Address GUI (TAG) system to verify that the address is premis valid. This eliminates problems downstream for assignments.

Verify LOA - Check to see if LOA is necessary. If LOA is needed is it on file or does the SDC need to request a new one.

Verify Taxi - Verify circuit ID passed by the customer matches TAXI. Verify any/all sub-circuits removed prior to disconnecting multiplexed circuit.

Coordinate as ILEC - Validate appropriate entries in EXACT for co-provided service, coordinate due dates with Exchange Carrier.

Check TIRKS - If the request is for a muxed facility the SDC must check TIRKS to determine the name for the circuit. With SST/SHNS verify SCID in TIRKS. If disconnecting multiplexed circuit verify all sub-circuits have been disconnected /moved.

Call LCON - All requests ending up at and end-user location must be called to verify wiring location and access information.

Verify EXACT - This includes verifying all information required to issue a 2 point or multiplexed circuit has been received.

Intra-Company Calls - Handling phone calls from the Interexchange carrier and calls from within the company to resolve issues surrounding the ASR and Service order.

When SST is multiplexed the SDC must also call the project manager for the circuit ID, SCID and due date.

Mechanical FOC - Firm Order Confirmation transaction completed in EXACT. Required on all ASRs sent mechanically. Mechanized customers receive automatically when transaction completed. Customers receive the DLR automatically from TIRKS.

Manually FOC - On non-electronic ASRs, after FOC task completed, the EXACT screen is printed and either faxed or mailed to the customer. The DLR is pulled from the printer and either faxed or mailed to the customer.

Order Distribution to IABS - Complete the command to send the order through the EXACT/TUF translation module and send to IABS.

Order Validation - Check the entries that were passed from EXACT/TUF and make sure they are correct.

Any additional information necessary to process the order.

**Distribute the Service order to the SOPS** - Complete the command to send the order to the Service order processors.

Check SOAC - The order must be checked in this database to make sure there are two successes, the order logging and the word logging portion must be successful for the order to then pass to TIRKS.

If MAP T FID present on order, verify order has NOT passed through SOAC.

Order Completion - Check WFA for any additional USOCs that must be added to the service order, note the completion date of the service order.

Complete IABS service order - Add any additional billing information to the service order and complete the service order.

**Complete EXACT - Make** appropriate entries in EXACT and complete ASR. Make appropriate entries in EXACT notes.

Conferred with:

Ronda Bergstedt - Process Specialist DS0, DS1 & SHARP/SHNS services

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|  | COST ELEMENT        |                                       | ·  |             |
|--|---------------------|---------------------------------------|--|-------------|
| DARK FIBER                                 | PER OCCURRENCE      | %                                     |  |             |
|  | PER PAIR            | MANUAL                                |  |             |
|  | PER ROUTE           | PROB                                  |  |             |
| DESIGN                                     |                     |                                       |  |             |
| WORK ACTIVITY                              |                     |                                       |  |             |
| INSTALL                                    |                     |                                       |  |             |
| ORDER HANDLING/SCREENING                   | 5                   | 100                                   |  |             |
| GOC ORDER LOG                              | 6                   | 100                                   | <del></del>                                  |             |
| ENTER WA MASK                              | 5                   | 100                                   |  |             |
| PREP LOOP INPUT/DRI                        | 15                  | 100                                   |  |             |
| CIRCUIT DESIGN                             | 30                  | . 100                                 |  |             |
| DISTRIBUTE WORD DOC                        | 2                   | 100                                   |  |             |
|  |                     | !                                     | - 1  |             |
|  |                     | 1                                     | :  |             |
|  |                     | :                                     |  |             |
| DISCONNECT                                 |                     | i                                     | 1  |             |
| ORDER HANDLING/SCREENING                   | 5                   | 100                                   | :  |             |
| GOC ORDER LOG                              | 6                   | 100                                   |  |             |
| ENTER WA MASK                              | 5                   | 100                                   |  |             |
| DISCONNECT CIRCUIT                         | 5                   | 100                                   |  |             |
| DISTRIBUTE WORD DOC                        | 2                   | 100                                   |  |             |
|  |                     | İ                                     |  |             |
|  |                     |                                       |  |             |
|  |                     |                                       | <u> </u>                                     | ·           |
|  | !                   |                                       | <u>! ! ! </u>                                |             |
| NOTE:                                      |                     | 1                                     |  |             |
| The time estimates and probability percent |                     |                                       |  |             |
| These work activites are required to pro-  | cess a service requ | est that falls ou                     | it of the TIRKS                              | system      |
| for mechanized design.                     | <u> </u>            |                                       | <u>!                                    </u> |             |
| These are average times. The times as      |                     |                                       | inter problems o                             | during      |
| the manual process necessary to proces     | ss the service requ | est.                                  | 1  |             |
|  |                     |                                       | <del></del>                                  | <del></del> |
|  |                     |                                       | <u> </u>                                     |             |
|  |                     |                                       | 1  |             |
| COLINGE                                    | -                   | ·                                     | <del> </del>                                 |             |
| SOURCE:                                    |                     | :                                     | <del></del>                                  |             |
| KATHY PLATTS                               | •                   | · · · · · · · · · · · · · · · · · · · | <del></del>                                  | <del></del> |
| DESIGN CENTER STAFF                        | 1                   |                                       |  |             |
| 1/99                                       | !                   | ·                                     | <del></del>                                  |             |
| MANY COOK Des Keets - Dietas - Al          | 1                   | i                                     |  |             |
| MAY 2000 Per Kathy Platts, these           | ļ                   |                                       |  |             |
| times and probabilities are appropriate    | i                   |                                       | 1  |             |
| for Dark Fiber order processing. No        | !<br>!              | ļ                                     |  |             |
| flow through opportunity exists.           | !                   | ·                                     | !  |             |

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#### PRIVATE LINE SERVICES

| Jan-99                           |  |                |                |                |  |
|----------------------------------|--|----------------|----------------|----------------|--|
| SERVICE DELIVERY DESIG           | N ANALOG   | DDOOFEE        |                |                |  |
|                                  | N ANALOG   | PRUCESS        |                |                |  |
| Work Activity Descriptions       | <del></del>                                      |                | <del></del>    |                |  |
|                                  |  |                |                |                |  |
| INSTALL :                        | •  |                |                |                |  |
| 1. Order Handling/Screenir       | ig · i   |                |                |                |  |
| Check for Order Accuracy         | i  | ,              | ;              | :              |  |
| Check Service Order Analysis     | and Control (                                    | SOAC) for Red  | uest for Manua | Assistance (F  | (MA's)   |
| Venty A & Z Location in RDL0     |  | ,              | i              | :              |  |
| Access Trunks integrated Re      | cord Keeping S                                   | vstem (TIRKS   | ) for Circuit  |                |  |
| Check Order for Coordination     |  |                |                | :              |  |
| Call Order Originator to ask for |  |                |                |                |  |
|                                  |  |                |                |                |  |
| 2. Generic Order Control (       | SOC) Order (                                     | 200122         | <del></del>    | <del></del>    |  |
| Access TIRKS (Work Author        |  |                | INTEL          | <del></del>    |  |
|                                  |  | CFEOVY, GCF    | 1012)          |                |  |
| Verify Order in Service Proce    | 3501   |                |                |                |  |
| Screen and Log GOC               |  | <u> </u>       | 1              |                |  |
| Put Remarks in GCNOTE Or         | der Manually L                                   | ogged i        |                |                |  |
|                                  |  |                |                |                | ·  |
| 3. Enter WA Mask                 |  | -              |                | 1              |  |
| Check Availability of Facilities | in TIRKS   |                |                | - 1            |  |
| Add Required Data to WA So       | teeu   | [              | : 1            |                |  |
| Verify that WA Screen Match      | es Service Ord                                   | er             |                | ı              |  |
| Manually input WA Screen         |  | l              | i              | J              |  |
|                                  |  |                |                | ·              |  |
| 4. Prepare Loop/Design Re        | lated informa                                    | tion (DRI) Scr | een            | 1              |  |
| Verify that Loop Facilities Ass  |  |                |                | nments & TIR   | CS Agree   |
| Check information on LPADA       |  |                |                | 1              | 10 Agree   |
| Resolve Design Related Infor     |  |                | ,              |                |  |
| Resolve Local Loop Errors        | 1  | 1              | 1              |                |  |
| Manually load the LPADM, D       | RI LOOPS SE                                      | d CD Screen    | 1              |                |  |
| The today was the El Abit, D     | 111, 2001 2, 81                                  | A CD SCIEBIL   | 1              |                |  |
| 5. Circuit Design                |  |                | <u> </u>       |                |  |
| Check GCNOTE or PCFLO            | A1 (   | !              |                |                |  |
|                                  |  | !              | [              | -              |  |
| Resolve Facility, Assignment     |  | issues with Co | mmunications   | Processor (CP) |  |
| Resolve Circuit Detail Errors    | <u>.                                    </u>     |                | !              |                |  |
| Build Circuit Detail Documen     |  | 1              | 1              | <u> </u>       |  |
| Jeopardize and Escalate Ord      | ier  | 1              | 1              | li             |  |
| !                                |  | !              | 1              | ,              |  |
| 6. Distribute Word docum         | ent  |                | 1              |                |  |
| Distribute Design Document       | 1  |                | 1              | į              |  |
| Resolve any Distribution Em      | ors  | 1              | :              | I              |  |
| Issue Design Layout Record       | (DLR)  | 1              | 1              | 1              |  |
| Issue Word Document              | 1  |                | 1              | 1              |  |
|                                  | <del>                                     </del> | <del>i</del>   | T              | <del></del>    |  |
|                                  | <u>;</u>   | <u>'</u>       | <u>'</u>       | <u>'</u>       |  |
| DISCONNECT                       | <del> </del>                                     | -              | 1              | 1              | <del> </del>                                     |
| 1. Order Handling/Screen         | ioa  | <del></del>    | 1              | 1              |  |
|                                  | nry  | 1              | 1              | 1              |  |
| Check for Order Accuracy         | -  | <del></del>    | <del>!</del>   | <del></del>    | !  |
| Check SOAC for RMA's             |  | <del>-</del>   | <u>:</u>       | <u> </u>       | <u> </u>   |
| Verify A & Z Location in RDI     | LUC  | <u> </u>       | ·              |                | i i  |
| Access TIRKS for Circuit         | 1  | i              | :              | ì              |  |
|                                  | 1  |                |                | !              | 1  |
| 2. GOC Order Logging             | !  | 1              | ;              |                |  |
| Access TIRKS (WA, PCFL           | DW. GCNOTE                                       | 3)             | !              | ı              | 1  |
| Venty Order in Service Proc      |  | l              | 1              | 1              |  |
| Screen and Log GOC               | i i  | Ī              | 1              |                | i -  |
| Put Remanks in GCNOTE (          | Order Manually                                   | Logged         | !              | <del> </del>   | <del>                                     </del> |
|                                  |  |                |                | <u> </u>       | <u>.</u>   |

### NOTICE

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### PRIVATE LINE SERVICES

| 3. Enter WA Mask                         |                 |   |   |   |
|--|-----------------|---|---|---|
| Verify Facilities in TIRKS               |                 |   |   |   |
| Add Required Data to WA Screen           | 1               |   |   |   |
| Verify that WA Screen Matches Service O  | rder            |   | : |   |
| Manually input WA Screen I               | :               |   | 1 |   |
| i  | :               |   | : | 1 |
| 4. Disconnect Circuit                    | ī               | , | ! | 1 |
| Check GCNOTE or PCFLOW for error         |                 |   | ! | : |
| Resolve Facility, Assignment or Equipmen | t Issues with C | P | 1 | ! |
| Resolve Circuit Detail Document          |                 |   | , |   |
| Jeopardize and Escalate Order            | 1               | i |   |   |
|  | !               | : | ! | • |
| 5. Distribute Word Document              | l               | ( | 1 | : |
| Distribute Design Document               |                 | 1 | ! |   |
| Resolve any Distribution Errors          | ì               | 1 | 1 | 1 |
| issue DLR                                |                 |   | 1 | 1 |
| Issue Word Docment                       | Ĭ.              |   | 1 | 1 |

| Line            | Line   | Time     | Prob | Prob | Prob | Prob | Labor      |
|-----------------|--|----------|------|------|------|------|------------|
| Type            | Description  | Estimate | #1   | #2   | #3   | #4   | Code       |
| HEADER          | OPTICAL CROSS CONN - PER FIBER PAIRS CONN AT CENTRAL OFFICE                            |          |      |      |      |      | 1          |
| COMMENT         | ( MUST BE ORDERED AT THE SAME TIME AS DARK FIBER REQUEST)                              |          |      |      | •••  |      | Ì          |
| ADD             |  |          |      |      |      |      | )          |
| GROUP           | CENTRAL OFFICE (CO)  |          |      |      |      |      | l          |
| COMMENT         | REVIEW SERVICE ORDER   | 5        | 1    | 0    | 0    | 0    | 09         |
| COMMENT         | COMPLETE FIBER CROSS-CONNECT   | 4        | 1    | Ō    | ō    | Ö    | 0 <u>9</u> |
| WORKITEM        | TAG FIBER PAIRS AT CO, CIRCUIT LABELS PLACED   | 2.5      | 1    | ō    | ö    | Ö    | 09         |
| DISCONNECT      |  |          |      |      |      |      |            |
| GROUP           | CENTRAL OFFICE (CO)  |          |      |      |      |      |            |
| WORKITEM        | REVIEW SERVICE ORDER   | 5        | 1    | Ö    | Ö    | O    | ó9         |
| WORKITEM        | DISCONNET FIBER CROSS-CONNECT  | 2.3      | i    | Ö    | ō    | Ö    | Ö <u>Ö</u> |
| WORKITEM        | REMOVE FIBER PAIR TAGS AT CO   | 2.5      | 1    | Ö    | 0    | Ö    | 09         |
| Dark Fiber orde | r process and time estimates provided by staff experts during product team meetings he | eld      |      | -    |      |      |            |
| during course o | f cost study development period.   |          |      |      |      |      |            |
| SOURCE          | Tim Francis - Staff Manager  |          |      |      |      |      |            |
| Jun-00          | Steve Hilleary - Staff Manager   |          |      |      | ]    | 1    |            |
|                 | Mike Hummer - Product Manager  |          |      |      | ,    |      |            |

| Line            | Line   | Time     | Prob | Prob | Prob | Prob | Labor      |
|-----------------|--|----------|------|------|------|------|------------|
| Type            | Description  | Estimate | #1   | #2   | #3   | #4   | Code       |
| HEADER          | OPTICAL CROSS CONN - PER FIBER PAIRS CONN AT CENTRAL OFFICE                            |          |      |      |      | 1    | 1          |
| COMMENT         | ( MUST BE ORDERED AT THE SAME TIME AS DARK FIBER REQUEST)                              |          |      |      | •••  |      | Ì          |
| ADD             |  |          |      |      |      |      | )          |
| GROUP           | CENTRAL OFFICE (CO)  |          |      |      |      |      | l          |
| COMMENT         | REVIEW SERVICE ORDER   | 5        | 1    | 0    | 0    | 0    | 09         |
| COMMENT         | COMPLETE FIBER CROSS-CONNECT   | 4        | 1    | ō    | ō    | Ö    | ō <u>ē</u> |
| WORKITEM        | TAG FIBER PAIRS AT CO, CIRCUIT LABELS PLACED   | 2.5      | 1    | ō    | ö    | Ö    | 09         |
| DISCONNECT      |  |          |      |      |      |      |            |
| GROUP           | CENTRAL OFFICE (CO)  |          |      |      |      |      |            |
| WORKITEM        | REVIEW SERVICE ORDER   | 5        | 1    | Ö    | Ö    | O    | ó9         |
| WORKITEM        | DISCONNET FIBER CROSS-CONNECT  | 2.3      | i    | Ö    | ō    | Ö    | Ö <u>Ö</u> |
| WORKITEM        | REMOVE FIBER PAIR TAGS AT CO   | 2.5      | 1    | Ö    | 0    | Ö    | 09         |
| Dark Fiber orde | r process and time estimates provided by staff experts during product team meetings he | eld      |      | -    |      |      |            |
| during course o | f cost study development period.   |          |      |      |      |      |            |
| SOURCE          | Tim Francis - Staff Manager  |          |      |      |      |      |            |
| Jun-00          | Steve Hilleary - Staff Manager   |          |      |      | ]    | 1    |            |
|                 | Mike Hummer - Product Manager  |          |      |      | ,    |      |            |

# DARK FILLY TIMES

| Line   | Time     | Prob  | Tkne     | Prob         |
|--|----------|-------|----------|--------------|
| Description  | Estimate |       | Estimate | 1700         |
| DARK FIBER NRC PER OCCURRENCE, PER ROUTE   | FIRST    |       | EA ADDL  | l            |
| FIELD INSTALLATION - INSTALLATION  |          |       |          | ·            |
| 2 probability is number of technicians dispatched  |          |       |          | <del> </del> |
| ANALYZE ORDER  | 5        | 2     | 5        | 2            |
| TRAVEL TIME TO CUSTOMER LOCATIONS - 2 LOCATIONS  | 21       | 2     | NA       | <del></del>  |
| LOCATE TERMINAL - 2 LOCATIONS  | 15       | 2     | NA       | <del></del>  |
| TEST FIBER - 2 TERMINATING LOCATIONS   | 30       | 2     | 30       | 2            |
| TAG FIBER PAIRS - 2 LOCATIONS  | 5        | 2     | 5        | 2            |
| NOTIFY IMPLEMENTOR WHEN COMPLETED (WFA)  | 5        |       | 5        | <del></del>  |
| FIELD INSTALLATION - DISCONNECT  |          |       |          | <u>-</u> _   |
| 2 probability is number of technicians dispatched  |          |       |          |              |
| ANALYZE ORDER  | 5        | 2     | 5        | <del>_</del> |
| TRAVEL TIME TO CUSTOMER LOCATIONS - 2 LOCATIONS  | 21       | 2     | NA NA    | <del>-</del> |
| LOCATE TERMINAL - 2 LOCATIONS  | 15       | 2     | NA       |              |
| REMOVE FIBER PAIRS TAGS - 2 LOCATIONS  | 5        | ··· 2 | 5        | 2            |
| NOTIFY IMPLEMENTOR WHEN COMPLETED (WFA)  | 5        |       | 5        |              |
| Jun-00   |          |       |          |              |
| Process and lime estimates provided by product team members during cost study development. |          | ·     |          |              |
| Sources:   |          |       |          |              |
| Mike Hummer - Product Manager  |          |       |          |              |
| Steve Nelson - Project Manager   |          |       |          |              |
| Tim Francis - Staff Manager  |          | -     |          |              |
| Alan Breager - Staff Manager   | ·        |       |          |              |
| Bill Rodrigues - Staff Manager   |          |       |          |              |