

## PIPELINE SAFETY RECORDS INSPECTION CHECKLIST

2019

South Dakota Public Utilities Commission

I. GENERAL INFORMA	TION		
Operator Evaluated			
Operator IOCS ID			
Inspection Unit IOCS ID			
Unit Description			
Portions of Unit	Records:		
Inspected	Pipe-to-Soil Reads		
	Casing Reads		
	Isolated Segment Reads		
	Rectifier Reads		
	Examination of Buried Pipe Reports	i	
	Interference Bond Records		
	Gas Composition		
	Atmospheric Corrosion Records		
	Class Location Studies		
	Odorization Checks		
	Patrolling		
	Leak Survey		
	Line Markers		
	Valve Maintenance		
	Steel Replacement Projects - for ca	thodic actions.	
Contact Person / Title		Phone Number	
(person interviewed)		Phone Number	
Responsible Party/Title		Phone Number	
Mailing Address			
Inspection Date		Last Inspection Date	
Location of Inspection			
Inspector Name			

II. PART 192 - CUS	STOMER NOTIFICATION	S	N/I	U	N/A
§192.16	Has the operator notified all customers by <b>August 14, 1996</b> or new customers within <b>90</b> days of their responsibility for those sections of service lines not maintained by the operator?				

II. PART 192 -	- CUSTOMER NOTIFICATION	S	N/I	U	N/A
§192.16 (b)	Does the operator have a current copy of the notification?				
	Does notification contain all the following requirements:				
	(1) operator does not maintain the customer's buried piping				
	(2) if customer's buried piping is not maintained, it may be subject to				
	corrosion and leakage				
	(3) buried gas piping should be:				
	(i) periodically inspected for leaks				
	(ii) periodically inspected for corrosion (if metal pipe)				
	(iii) repaired if any unsafe condition is discovered				
	(4) when excavating near buried gas piping, the piping should be located in advance, and the excavation done by hand				
	(5) the operator, plumbing contractors, and heating contractors can assist in locating, inspecting, and repairing the customer's buried				
	piping	ļ			<u> </u>
	Does the customer notification also go to farm tap customers?				

IV. PART 192 – CO	RROSION GENERAL	S	N/I	U	N/A
§192.453	(c) Are these procedures under the responsibility of a qualified person?				

/. PART 192 – E	XTERNAL CORROSION CONTROL	S	N/I	U	N/A
	Did the operator use calibrated half cells?				
§192.455(a)	For pipelines installed after July 31, 1971: Are buried segments				
	externally coated & cathodically protected within one year?				
§192.455(b)	For pipelines installed without cathodic protection: Are there any				
	pipelines without cathodic protection?				
	(1) Has the operator proved that a corrosive environment does not				
	exist?				
	(2) Conducted tests within 6-months to confirm (#1) above?				
§192.455	Pipeline Material Types: What kinds of pipeline materials are				
-	used? Steel, Copper, Plastic, Cast Iron				
§192.455(c)(1)	For bare copper pipeline: Is the pipeline cathodically protected if a				
	corrosive environment exists?				
§192.455(c)(2)	For bare temporary (less than 5 year period of service)				
• • • • • • •	pipelines: For unprotected pipelines, has it been demonstrated that				
	corrosion during the 5-year period will not be detrimental to public				
	safety?				
§192.455(e)	<b>For aluminum pipeline:</b> Is the natural pH of the environment <8.0?				X
	If not, has operator conducted tests or have experience to indicate				
	the aluminum pipeline suitability with its environment?				
§192.455(f)	Metal alloy fittings on plastic pipelines:				
	(1) Has operator shown by test, investigation, or experience that				
	adequate corrosion control is provided by the alloy composition?				
	(2) Fitting is designed to prevent leakage caused by localized				
	corrosion pitting?				
<mark>§192.455(g)</mark>	(g) Electrically isolated metal alloy fittings installed after January 22,				
	2019, that do not meet the requirements of paragraph (f) must be				
	cathodically protected, and must be maintained in accordance with				
	the operator's integrity management plan.				
§192.457(a)	Pipelines installed before August 1, 1971: Are effectively coated				+
	transmission pipelines cathodically protected?				

/. PART 192 – EX	TERNAL CORROSION CONTROL	S	N/I	U	N/A
§192.457(b)	(Except for cast iron or ductile iron) Is cathodic protection provided in				
• • • • •	areas of active corrosion on:				
	(1) existing bare or ineffectively coated transmission pipelines?				
	(2) existing bare or coated pipes at compressor, regulator, and				
	measuring stations?				
	(3) existing bare or coated distribution lines?				
§192.459	When the operator has knowledge that any pipeline is exposed, is				
0	the exposed pipe examined for:				
	(a) Evidence of corrosion?				
	(b) Coating deterioration?				
§192.459	If external corrosion requiring remedial action is found, is the				
0	pipeline investigated circumferentially and longitudinally beyond the				
	exposed portion to determine whether additional corrosion requiring				
	remedial action exists?				
§192.459	Does operator have procedures established for examining exposed				х
3	<b>cast iron</b> pipe for evidence of graphitization?				
	Does operator have procedures established for remedial measures				х
	on <b>cast iron</b> pipe if graphitization is discovered, AGA GPTC				
	Appendix G-18 (NTSB)?				
§192.463 (a)	Does the level of cathodic protection meet the requirements of				
3	Appendix D criteria?				
Appendix D	Steel, cast iron, and ductile iron				
Part I	(1) a negative (cathodic) voltage of at least 0.85 volt (Cu-CuSO <sub>4</sub> $\frac{1}{2}$				
	cell) also need to consider IR drop				
	(2) a negative voltage shift of at least 300 millivolts (applies to				
	structure not in contact with metals of different anodic potentials)				
	also need to consider IR drop				
	(3) a minimum negative polarization voltage shift of 100 millivolts				
	(interrupting the protective current and measuring the polarization				
	decay)				
	(4) voltage at least as negative as that originally established at				
	beginning of Tafel segment of E-log-I curve				
	(5) net protective current				
	Refer to Appendix D if aluminum, copper, or other metals are within				
	the system also note that other reference cells besides Cu-CuSO4				
	half-cells can be used if they meet criteria in Section IV of Appendix				
§192 Appendix D.	Does the operator criteria consider <b>IR</b> drop?				
Part II					
§192.463 (b)	If amphoteric metals are included in a buried or submerged pipeline				
3.02.000 (2)	containing a metal or different anodic potential are they:				
	(1) electrically isolated from the remainder of the pipeline and				
	cathodically protected?; OR				
	(2) cathodically protected at a level that meets the requirements of				
	Appendix D for amphoteric metals?				
§192.463 (c)	Is the amount of cathodic protection controlled to prevent damage to				
J ==	the protective coating or the pipe?				
§192.465(a)	Has each pipeline that is cathodically protected been tested at least		1		1
3.02.100(a)	once each calendar year not to exceed <b>15</b> months?				
§192.465(a)	Are 10 percent of short sections of mains or transmission lines and		1	1	
3102.700(a)	separately protected service lines distributed over the entire system				
	tested each year on a sampling basis, with a different 10 percent				
	checked each year, so that the entire system is checked in each 10				
	year period?		1		

V. PART 192 – E	EXTERNAL CORROSION CONTROL	S	N/I	U	N/A
§192.465(b)	Has each cathodic protection rectifier been inspected at least six				
	times each year not to exceed 2-1/2 months?				
§192.465(c)	Does the operator check for proper performance of each reverse				
	current switch, diode, and interference bond whose failure would				
	jeopardize structure protection at least <b>six</b> times each calendar year,				
	but with intervals not exceeding 2-1/2 months?				
§192.465(c)	Does the operator check for proper performance of other				
	interference bonds at least once each calendar year, at intervals not				
	exceeding <b>15</b> months?				
§192.465(d)	Is prompt remedial action taken to correct any deficiencies indicated				
	by the monitoring?				
	(a) Shorted Casings ( <b>6</b> months)				
	(b) Rectifier ( <b>2-1/2</b> months)				
	(c) Low p/s readings - case by case, depends on cause				
§192.465(e)	Does the operator have bare pipelines?				
	(a) Are they cathodically protected?				
	(b) Are they reevaluated at <b>3</b> year intervals not exceeding <b>39</b>				
	months?				
	(c) Are remedial measures taken where necessary?				
§192.467	Are buried pipelines electrically isolated from other underground				
0	structures?				
	(a) Are casing potentials monitored to detect the presence of shorts				
	once each calendar year, not to exceed 15 months?				
	(b) Does the operator investigate & take appropriate action when				
	indications of casing shorts are found?				
	(c) Does the shorted casing procedure require or has the operator				
	made): (Enforcement Policy)				
	(1) Determination of a course of action to correct or negate the				
	effects of the shorts within 6 months of discovery.				
	(2) Verification that a short exists				
	(3) Clearing of the short, if practicable. (This must be considered				
	before alternative measures may be used.)				
	(4) Filling the casing/pipe interstice with high-dielectric casing filler or				
	other material which provides a corrosion inhibiting environment, if it				
	is impractical to clear the short.				
	(5) If (# 3) & (# 4) are determined to be impractical, monitor the				
	casing with leak detection equipment for leakage at intervals not				
	exceeding 7-1/2 months, but at least twice each calendar year.				
	(6) If a leak is found by monitoring casings with leak detection				
	equipment, immediate corrective action to eliminate the leak &				
	further corrosion.				
	(7) In lieu of other corrective actions, monitoring the condition of the				
	carrier pipe using an internal inspection device at specified intervals.				
§192.467(d)	Inspection and electrical tests must be made to assure that electrical				
	isolation is adequate.				
§192.467(e)	Are insulating devices prohibited in areas where a combustible				
	atmosphere is anticipated unless precautions are made to prevent				
<b>A</b> ( <b>A A A A A A A A A A</b>	arcing?				<u> </u>
§192.467(f)	Where pipelines are located in close proximity to electrical				
	transmission tower footings, is protection provided to the pipelines				
	against damage due to fault currents?				
§192.469	Are there sufficient test stations or test points?			ļ	
§192.473 (a)	Does the operator monitor their system for stray currents and take				
	appropriate steps to minimize detrimental effects?				

V. PART 192 – EXT	ERNAL CORROSION CONTROL	S	N/I	U	N/A
§192.473 (b)	Does operator design and install each impressed current and/or galvanic anode cathodic protection system to minimize adverse effects on existing adjacent underground metallic structures?				

VI. PART 192 ·	- INTERNAL CORROSION CONTROL	S	N/I	U	N/A
§192.475(a)	Is gas tested to determine corrosive properties?				
§192.475(b)	Whenever a pipe segment is removed from a pipeline, is it examined				
• • • • •	for evidence of internal corrosion?				
	If internal corrosion is found -				
§192.475(b)	(1) Is the adjacent pipe investigated to determine the extent of internal corrosion?				
	(2) Is replacement made to the extent required by §§192.485, 192.487, or 192.489?				
	(3) Is remedial action taken ( <b>if required</b> ) to minimize internal corrosion?				
§192.475(c)	IGas containing >0.25 grain of hydrogen sulfide per 100 ft3 (at				
	standard conditions) may not be stored in pipe-type or bottle-type holders.				
§192.476(a)	Design and construction of <b>transmission line installed after May 23</b> , <b>2007</b> :				
	Has transmission line or replacement of line pipe, valve, fitting, or				
	other line component in a transmission line met the following				
	requirements (unless operator proves impracticable or				
	unnecessary):				
	(1) configured to reduce risk liquid collection in line				
	(2) has effective liquid removal features if configuration would allow liquid collection				
	(3) allow for use of devices for monitoring internal corrosion at locations with significant potential for internal corrosion				
§192.476(c)	If operator changes configuration of transmission line, did they evaluate the impact of the change on internal corrosion risk to downstream portion of line and provide for removal of liquids and monitoring of internal corrosion?				
§192.476(d)	Does operator maintain records that demonstrate compliance with this section? Does operator maintain as-built drawings or other construction records if found impracticable or unnecessary to follow (a)(1,2.3)				
§192.477	Have coupons (for corrosive gas only) been utilized & checked at least twice annually not to exceed 7-1/2 months?				

VII. PART 192 –	ATMOSPHERIC CORROSION CONTROL	S	N/I	U	N/A
§192.481(a)	Does the operator inspect piping exposed to the atmosphere at least once every 3 calendar years, at intervals not to exceed <b>39 months</b> for onshore piping?				
§192.481(b)	During inspection does the operator give particular attention to pipe at soil-to-air interfaces, under thermal insulation, under disbanded coating, at pipe supports, at deck penetrations, and in spans over water?				
§192.481(c)	If atmospheric corrosion is found, does the operator provide protection against the corrosion as required by §192.479?				

VIII. PART 192 – R	REMEDIAL MEASURES	S	N/I	U	N/A
§192.483	Is replacement steel pipe coated and cathodically protected?				

VIII. PART 192	- REMEDIAL MEASURES	S	N/I	U	N/A
§192.485(a)	For each segment of transmission line with general corrosion and with a remaining wall thickness less than that required for the MAOP of the pipeline, is the section of pipeline replaced, repaired, or have the operating pressure reduced?				
§192.485(b)	For each segment of transmission line with localized pitting to a degree where leakage might result, is the section of pipeline replaced, repaired, or have the operating pressure reduced?				
§192.485(c)	Strength of pipe based on actual remaining wall thickness may be determined by ASME/ANSI B31G or AGA PR 3-805				
§192.487(a)	For distribution lines with a remaining wall thickness less than that required for the MAOP of the pipeline or a remaining wall thickness less than 30 percent of the nominal wall thickness, does the operator replace or repair the pipe?				
§192.487(b)	For distribution lines, does the operator replace or repair pipe with localized corrosion pitting?				
§192.489(a)	Is each segment of cast iron or ductile iron pipe on which <b>general</b> graphitization is found to a degree where a fracture or any leakage might result, replaced?				
§192.489(b)	Is each segment of cast iron or ductile iron pipe on which <b>localized</b> graphitization is found to a degree where any leakage might result, replaced or repaired, or sealed by internal sealing methods?				

IX. PART 192	- CORROSION CONTROL RECORDS	S	N/I	U	N/A
§192.491(a)	Does the operator maintain records or maps showing the location of cathodically protected pipe and facilities?				
§192.491(b)	Does the operator retain records showing the location of cathodically protected pipe and facilities for the life of the system?				
§192.491(c)	Does the operator maintain a record of each test, survey, or inspection required by this subpart in sufficient detail to demonstrate adequacy of corrosion control measures or that a corrosive condition does not exist for at least 5 years?				
§192.491(c)	Does the operator retain records related to §§192.465(a) and (e) and 192.475(b) retained for as long as the pipeline remains in service?				

X. PART 192 – CHANGE IN CLASS LOCATION	s	N/I	U	N/A

X. PART 192 – C	CHANGE IN CLASS LOCATION	S	N/I	U	N/A
§192.609	<ul> <li>Has the operator determined that a class location study is required?</li> <li>Class location study – When increase in population density indicates a change in class location or indicates that the hoop stress corresponding to the established maximum allowable operating pressure for a segment of existing pipeline is not commensurate with the present class location, the operator shall immediately make a study to determine: <ul> <li>(a) The present class location for the segment involved.</li> <li>(b) The design, construction, and testing procedures followed in the original construction, and a comparison of these procedures with those required for the present class location by the applicable provision part.</li> <li>(c) The physical condition of the segment to the extent it can be ascertained from available records.</li> <li>(d) The operating and maintenance history of the segment.</li> <li>(e) The maximum actual operating pressure and the corresponding operating hoop stress, taking pressure gradient into account, for the segment of pipeline involved.</li> <li>(f) The actual area affected by the population density increase, and physical barriers or other factors which may limit further expansion of the more densely populated area.</li> </ul> </li> </ul>				
§192.611	What does the operator alter when population density requires a change in MAOP? (a) Test the pipe to qualify the new MAOP.				
	(b) Reduce MAOP to meet the class location.				
	(c) Replace pipe.				
	Refer to 192.611 if MAOP is confirmed or revised (also see Subpart				
	K if applicable)				
General	Does the operator have the appropriate class locations defined?				

XI. PART 192 - OI	DORIZATION OF GAS	S	N/I	U	N/A
	Did the operator use calibrated odorometers?				
	What kind of equipment is used?				
§192.625(a)	Chemical Properties - Brand Name –				
One-Fifth of the					
Lower Explosive Limit	Odorometer				
	Injection Rate				
	Odorization Method –				
§192.625(b)	Transmission Lines in Class 3 or 4 locations must comply with				
,	192.625(a) if 50% or less of the length of the line downstream is in a				
	Class 1 or 2 location. There are also other exceptions found within				
	this section				
§192.625(e)	Does the equipment introduce the odorant without wide variations in				
	the level of odorant?				
§192.625(f)	Does the operator conduct periodic sampling of combustible gases				
	using an instrument capable of determining the percentage of gas in				
	air at which the odor becomes readily detectable?				
	How are farm tap customers odorant levels checked?				

XII. PART 192 – MAINTENANCE S N/I U N/A
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XII. PART 192	XII. PART 192 – MAINTENANCE		N/I	U	N/A
§192.703(b)	Is each segment of a pipeline that becomes unsafe, replaced, repaired or removed from service?				
§192.703(c)	Are hazardous leaks repaired promptly?				

XIII. PART 192 -	PATROLLING TRANSMISS	SION	S	N/I	U	N/A
§192.705(a)	construction activity, or other fa	e conditions for indications of leaks, ctors on and adjacent to line ROW?				
	(a) Does the operator follow up	o on problems noted?				
§192.705(b)	Is the maximum interval between patrols in accordance with the following: (Maximum interval between patrols of lines)					
Class location	At Highway and Railroad Crossings	At all Other Places				
1 and 2	2/yr (7-1/2 months)	1/Year (15 months)				
3	4/yr (4-1/2 months)	2/yr (7-1/2 months)				
4	4/yr (4-1/2 months)	4/yr (4-1/2 months)				

XIV. PART 192 -	LEAK SURVEYS: TRANSMISSION	S	N/I	U	N/A
	Did the operator use calibrated leak detectors? What kind of equipment is used?				
§192.706	(a) Are leakage surveys of transmission lines conducted at intervals				
	<ul> <li>not exceeding 15 months but at least once each calendar year?</li> <li>(b) Are lines transporting unodorized gas surveyed using leak detector equipment at intervals not exceeding 7-1/2 months but at least twice each calendar year for Class 3 locations and at intervals not exceeding 4-1/2 months but at least 4 times each calendar year for Class 4 locations?</li> </ul>				

XV. PART 192	- LINE MARKERS	S	N/I	U	N/A
§192.707(a)	Are buried mains and transmission lines marked as required in the following areas:				
	(1) at each crossing of a public road and railroad				
	(2) wherever necessary to identify the location of the line to reduce possibility of damage or interference				
§192.707(b)	EXCEPTIONS where line markers are NOT required:				
0	(1) lines located at crossings of or under waterways and other water bodies				
	(2) mains in Class 3 or 4 location where damage prevention program is in effect under §192.614				
	(4) transmission lines in Class 3 or 4 locations where placement of line marker is impractical				
§192.707(c)	Are line markers installed on aboveground areas accessible to the public?				
§192.707(d)	Do the line markers have the latest characteristics?				
	(1) "Warning", "Caution", "Danger" followed by "Gas Pipeline" (1"				
	high with 1⁄4" stroke except in heavily developed areas)				
	(2) name and telephone number of operator (24 hr access)				

XVI. PART 192 – PATROLLING DISTRIBUTION		N/I	U	N/A

XVI. PART 192	- PATROLLING DISTRIBUTION	S	N/I	U	N/A
§192.721(a)	Frequency of patrolling mains must be determined by the severity of the conditions which could cause failure or leakage (i.e., consider cast iron, weather conditions, known slip areas, etc.)				
§192.721(b)(1)	Does the operator patrol mains in business districts at intervals not exceeding <b>4-1/2</b> months, but at least <b>4</b> times each calendar year where anticipated physical movement or external loading could cause failure or leakage?				
§192.721(b)(2)	Does the operator patrol mains outside business districts at intervals not exceeding <b>7-1/2</b> months, but at least <b>2</b> times each calendar year where anticipated physical movement or external loading could cause failure or leakage?				

XII. PART 192 -	SURVEILLANCE	S	N/I	U	N/A
§192.613(a)	<ul> <li>Has the operator conducted continuing surveillance to determine if the following issues need to be addressed: <ul> <li>Change in class location</li> <li>Failures</li> <li>Leakage history</li> <li>Corrosion</li> <li>Cathodic protection</li> <li>Other unusual conditions</li> </ul> </li> <li>If yes, provide explanation of issues operator feels need to be addressed.</li> </ul>				
§192.613(b)	Has the operator documented and initiated a program to correct problems discovered?				

- LEAKAGE SURVEYS: DISTRIBUTION	S	N/I	U	N/A
Did the operator use calibrated leak detectors? What kind of equipment is used?				
Does the operator conduct gas detector surveys in the business district at intervals not exceeding 15 months, but at least once each calendar year?				
Has the operator appropriately defines business districts?				
Does the operator conduct leakage surveys (to include manholes/cracks in pavement/other pertinent locations) of the distribution system outside of the principal business areas at intervals not exceeding 63 months, but at least once every 5 calendar year?				
For cathodically unprotected distribution lines subject to §192.465(e) on which electrical surveys for corrosion are impractical is a leakage survey conducted at least once every 3 calendar years at intervals not exceeding 39 months?				
	Did the operator use calibrated leak detectors? What kind of equipment is used?Does the operator conduct gas detector surveys in the business district at intervals not exceeding 15 months, but at least once each calendar year?Has the operator appropriately defines business districts?Does the operator conduct leakage surveys (to include manholes/cracks in pavement/other pertinent locations) of the distribution system outside of the principal business areas at intervals not exceeding 63 months, but at least once every 5 calendar year?For cathodically unprotected distribution lines subject to §192.465(e) on which electrical surveys for corrosion are impractical is a leakage survey conducted at least once every 3 calendar years at intervals	Did the operator use calibrated leak detectors? What kind of equipment is used?Does the operator conduct gas detector surveys in the business district at intervals not exceeding 15 months, but at least once each calendar year?Has the operator appropriately defines business districts?Does the operator conduct leakage surveys (to include manholes/cracks in pavement/other pertinent locations) of the distribution system outside of the principal business areas at intervals not exceeding 63 months, but at least once every 5 calendar year?For cathodically unprotected distribution lines subject to §192.465(e) on which electrical surveys for corrosion are impractical is a leakage survey conducted at least once every 3 calendar years at intervals	Did the operator use calibrated leak detectors?         What kind of equipment is used?         Does the operator conduct gas detector surveys in the business district at intervals not exceeding 15 months, but at least once each calendar year?         Has the operator appropriately defines business districts?         Does the operator conduct leakage surveys (to include manholes/cracks in pavement/other pertinent locations) of the distribution system outside of the principal business areas at intervals not exceeding 63 months, but at least once every 5 calendar year?         For cathodically unprotected distribution lines subject to §192.465(e) on which electrical surveys for corrosion are impractical is a leakage survey conducted at least once every 3 calendar years at intervals	Did the operator use calibrated leak detectors?       What kind of equipment is used?         Does the operator conduct gas detector surveys in the business district at intervals not exceeding 15 months, but at least once each calendar year?       Has the operator appropriately defines business districts?         Does the operator conduct leakage surveys (to include manholes/cracks in pavement/other pertinent locations) of the distribution system outside of the principal business areas at intervals not exceeding 63 months, but at least once every 5 calendar year?         For cathodically unprotected distribution lines subject to §192.465(e) on which electrical surveys for corrosion are impractical is a leakage survey conducted at least once every 3 calendar years at intervals

XVIII. PART 192 -	VALVE MAINTENANCE: TRANSMISSION	S	N/I	U	N/A
§192.745(a)	Does the operator check and service each valve which might be required during an emergency at intervals not exceeding 15 months, but at least once each calendar year?				
§192.745(b)	Does the operator take prompt remedial action to correct any valve found inoperable, unless the operator designates an alternative valve?				

XIX. PART 192	2 – VALVE MAINTENANCE: DISTRIBUTION	S	N/I	U	N/A
§192.747(a)	Does the operator check and service each valve which might be required during an emergency at intervals not exceeding 15 months, but at least once each calendar year?				
§192.747(b)	Does the operator take prompt remedial action to correct any valve found inoperable, unless the operator designates an alternative valve?				

XX. PART 192 – VAULTS		S	N/I	U	N/A
	There are no vaults in SD.				
§192.749(a)	Is each vault that houses pressure regulating and limiting equipment (and has an internal volume of 200 ft <sup>3</sup> or more) inspected at least once each calendar year not exceeding 15 months? Vaults need to be inspected to determine if they are in good physical condition and adequately vented.				x
§192.749(b)	If gas was found in vault during inspection was equipment inspected for leaks? If leaks were found were they repaired?				x
§192.749(c)	Was ventilating equipment inspected to determine if functioning properly?				x
§192.749(d)	Was vault cover inspected to assure it does not present hazard to public safety?				x
§192.727(f)	If any vaults were abandoned, were they filled with a suitable compacted material?				x