FEDERAL ENERGY REGULATORY COMMISSION WASHINGTON DC

OMB Control # 1902-0075 Expiration 5/31/2013

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OREG 1, In	applicant c.	(legal entity on wl	10se behalf qu	alifying facility state	us is sough	t for this facility)	
1b Applicant str c/o Ormat 6225 Neil	eet addre Nevada Road	ss Inc.			· .	RECEIVED	
				•		JAN 3 1 2011	
1c City Reno				1d State/prov Nevada	vince	SOUTH DAKOTA PUBLI UTILITIES COMMISSIO	
1e Postal code 89511		1f Country (if not	United States)		1g Tele 775-	phone number -356–9029	
1h Has the insta	int facility	ever previously be	en certified as	a QF? Yes	No 🛛		
1i If yes, provide	the dock	et number of the l	ast known QF	filing pertaining to	this facility	/: QF	
1i Underwhich	certificati	on process is the a	nnlicant makir	ng this filing?			
Notice of s	elf-certific	ation		Application for C	ommissio	n certification (requires filing	
QF status. A notice of sel section on p	f-certifica	self-certification of tion to verify component of the tion of tion of the tion	loes not estable bliance. See the second sec	lish a proceeding, and the "What to Expect F	nd the Cor From the C	nmission does not review a ommission After You File"	
1k What type(s)	k What type(s) of QF status is the applicant seeking for its facility? (check all that apply)						
			:1:••••••••		that apply		
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	RC Form 556			Page 6 - All Facilit	ies			
	2a Name of contact person	2b Telephone number						
	Tina Calilung	775-356-9029 ext. 32222						
	2c Which of the following describes the contact person's relationship to the applicant? (check one)							
-	Applicant (self)							
5	\bigotimes Employee of a company affiliated with the applicant authorized to represent the applicant on this matter							
	Lawyer, consultant, or other representative authorized to represent the applicant on this matter							
	2d Company or organization name Ormat Nevada Inc.	(if applicant is an individua	al, check here an	d skip to line 2e) 🗌				
	2e Street address (if same as Applic	ant, check here and skip to	line 3a)🔀	,	0			
)	2f City		2g State/prov	rince				
	2h Postal code	2i Country (if not United	States)					
	3a Facility name			<u></u>				
	OREG 1-CS7							
	3b Street address (if a street addres 6243 County Road 81	does not exist for the faci	ility, check here a	and skip to line 3c)	0			
ification and	3c Geographic coordinates: If you indicated that no street address exists for your facility by checking the box in line 3b, then you must specify the latitude and longitude coordinates of the facility in degrees (to three decimal places). Use the following formula to convert to decimal degrees from degrees, minutes and seconds: decimal degrees = degrees + (minutes/60) + (seconds/3600). See the "Geographic Coordinates" section on page 4 for help. If you provided a street address for your facility in line 3b, then specifying the geographic coordinates below is optional.							
	Longitude West (-)	degrees	Latitude	South (-)degrees				
)	3d City (if unincorporated, check he	re and enter nearest city)	3e State/r	province				
			<u> </u>					
	St. Anthony		North Da	akota				
•	St. Anthony 3f County (or check here for independent)	ndent city)	North Da	akota 				
	St. Anthony 3f County (or check here for independent) Morton	ndent city) 🗌 39	g Country (if no	akota 	Ø			
`	St. Anthony 3f County (or check here for independent of the more of the sector of the more of the sector of the	ndent city) 2 :ontemplated to transact v	g Country (if no with the facility.	akota It United States)	Ø			
	St. Anthony 3f County (or check here for independent of the more of the second of t	ndent city) 3	North Da g Country (if no with the facility.	akota It United States)	0			
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	St. Anthony 3f County (or check here for independent of the more of the sector of the more of the sector of the	ndent city) 3 contemplated to transact w /ith the facility operative ling service or check here i operative useful electric power output	North Da g Country (if no with the facility.	if none	0			
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FERC F	orm 556	Page 7	- All Facilities
5a	Direct ownership as of effective date or operation date: Identify all direct owners of t percent equity interest. For each identified owner, also (1) indicate whether that own defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a holding con 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)), and (2 utilities or holding companies, provide the percentage of equity interest in the facilit direct owners hold at least 10 percent equity interest in the facility, then provide the two direct owners with the largest equity interest in the facility	he facility holding ner is an electric ut npany, as defined i 2) for owners which y held by that own required informati	at least 10 ility, as n section a are electric er. If no on for the
	two uncer owners with the largest equity interest in the lacinty.	Electric utility of	· If Yes,
	Full legal names of direct owners	holding company	% equity interest
1) OREG 1, Inc.	Yes 🔀 No 🗌	100%
2)	Yes 🗌 No 🗌]%
3)	Yes 📋 No 🗌]%
4)	Yes 📋 No 📋]%
5)	Yes No]%
0)	Yes No	% %
8)]^
)]°]%
5 1 5 1	0)	Yes No] %
; 2	Check here and continue in the Miscellaneous section starting on page 19 if add	litional snace is ne	
	1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also equity interest in the facility held by such owners. (Note that, because upstream own another, total percent equity interest reported may exceed 100 percent.) Check here if no such upstream owners exist.	provide the percer ners may be subsic	ntage of liaries of one % equity
	Full legal names of electric utility or holding company upstream own	iers	
	Ormat Nevada Inc.		100 %
3			
4	4)		
5	j)	·····	
e	5)		%
7	n		
8	3)		°
9)) 		⁹⁶
		·	%
	Check here and continue in the Miscellaneous section starting on page 19 if add	itional space is nee	ded
50	Identify the facility operator		
	UTHIAL NEVAGA INC.		

contract of each state to the contract of the task

FEF	ERC Form 556 Page 8 - All Fa										
	ба	Describe t	ne primary energy input: (check one main category and, if applicable, one subcategory)								
		Biomas	ass (specify)		enewable resources (specify)		Geothermal				
		🗆 L	🔲 Landfill gas		🔲 Hydro power - riv	er	🔲 Fossil fuel (spec	:ify)			
			Manure digester gas		🔲 Hydro power - tid	al	🗌 Coal (not	waste)			
		Municipal solid waste		🔲 Hydro power - wa	ve	📋 Fuel oil/d	liesel				
			Sewage digester gas		🔲 Solar - photovolta	ic	🔲 Natural g	as (not waste)			
		□ \	Wood		📋 Solar - thermal		Other fos	sil fuel			
			Other biomass (describe on	page 19)	🗋 Wind		(describe	on page 19)			
		🛛 Waste	(specify type below in line 6	b)	Other renewable (describe on page	resource e 19)	Other (describe	on page 19)			
	6b	6b If you specified "waste" as the primary energy input in line 6a, indicate the type of waste fuel used: (check one)									
		⊠ Waste fuel listed in 18 C.F.R. § 292.202(b) (specify one of the following)									
		Anthracite culm produced prior to July 23, 1985									
			Anthracite refuse that has a ash content of 45 percent of	an average or more	heat content of 6,000	Btu or les	s per pound and has a	an average			
			Bituminous coal refuse that has an average heat content of 9,500 Btu per pound or less and has an average ash content of 25 percent or more								
nput	,e *e ,	Top or bottom subbituminous coal produced on Federal lands or on Indian lands that has been determined to be waste by the United States Department of the Interior's Bureau of Land Manage (BLM) or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided the applicant shows that the latter coal is an extension of that determined by BLM to be waste									
nergy l			en determined to be v BLM's jurisdiction, pro BLM to be waste	waste by the ovided that							
			Lignite produced in associa as a result of such a mining	ation with t operation	he production of mon	tan wax a	and lignite that becom	ies exposed			
		Gaseous fuels (except natural gas and synthetic gas from coal) (describe on page 19)									
			gas meets the require rials necessary to dem	ements of 18 onstrate							
		Materials that a government agency has certified for disposal by combustion (describe on page 19)									
			Heat from exothermic read	tions (desc	ribe on page 19)	\boxtimes	Residual heat (describ	e on page 19)			
			Used rubber tires] Plastic m	aterials 🗌 Re	efinery of	ff-gas 🗌 Peti	roleum coke			
		Other waste energy input that has little or no commercial value and exists in the absence of the qualifying facility industry (describe in the Miscellaneous section starting on page 19; include a discussion of the fuel's lack of commercial value and existence in the absence of the qualifying facility industry)									
	6c	6c Provide the average energy input, calculated on a calendar year basis, in terms of Btu/h for the following fossil fuel energy inputs, and provide the related percentage of the total average annual energy input to the facility (18 C.F.R. § 292.202(j)). For any oil or natural gas fuel, use lower heating value (18 C.F.R. § 292.202(m)).									
			Fuel	Ar in	nual average energy put for specified fuel		Percentage of total annual energy input				
			Natural gas		0	Btu/h	0 %				
			Oil-based fuels		0	Btu/h	0 %	1			
			Coal			Btu/h	∩ %_				

Page 9 - All Facilities

Indicate the maximum gross and maximum net electric neuror production canacity of the facility at the	point(s) of
delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and/or lines 7b through 7e are negligible, enter zero for those lines.	losses identified in
7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions	8,100 kW
7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your	
reported parasitic station power.	670 kW
7c Electrical losses in interconnection transformers	0 kW
7d Electrical losses in AC/DC conversion equipment, if any	0 kW
7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility	0 kW
7f Total deductions from gross power production capacity = 7b + 7c + 7d + 7e	670.0 kW
7g Maximum net power production capacity ≈ 7a - 7f	7,430.0 kW
7h Description of facility and primary components: Describe the facility and its operation. Identify al recovery steam generators, prime movers (any mechanical equipment driving an electric generators, photovoltaic solar equipment, fuel cell equipment and/or other primary power generators)	l boilers, heat or), electrical ation equipment

generators, photovoltaic solar equipment, fuel cell equipment and/or other primary power generation, electrical used in the facility. Descriptions of components should include (as applicable) specifications of the nominal capacities for mechanical output, electrical output, or steam generation of the identified equipment. For each piece of equipment identified, clearly indicate how many pieces of that type of equipment are included in the plant, and which components are normally operating or normally in standby mode. Provide a description of how the components operate as a system. Applicants for cogeneration facilities do not need to describe operations of systems that are clearly depicted on and easily understandable from a cogeneration facility's attached mass and heat balance diagram; however, such applicants should provide any necessary description needed to understand the sequential operation of the facility depicted in their mass and heat balance diagram. If additional space is needed, continue in the Miscellaneous section starting on page 19.

The facility is located on a gas pipeline compressor station which has gas-fired turbines used to compress natural gas. Using an ORMAT® Recovered Energy REG® system installed to the gas turbine exhaust, the facility extracts the turbine's waste heat to generate electrical power using an ORMAT® Energy Converter (OEC) unit, which is a pre-packaged power unit based on the principle of the thermodynamic Organic Rankine Cycle (ORC) technology. Similar to the classical steam cycle, external heat source in the form of hot thermal oil will provide the heat to the power cycle. The organic cycle motive fluid is a hydrocarbon selected in this application for optimal utilization of the available heat, with due regard given to thermodynamic and economic performance.

Heat from the gas turbine is transferred to the Waste Heat Oil Heater (WHOH) using diverter valves regulating the combustion gases flow between the WHOH coil and a bypass stack. The WHOH is a tube-type heat exchanger in which thermal oil is circulated within its tubes. The gas turbine exhaust gases are cooled by the thermal oil flowing in the tubes before venting to the atmosphere through the exhaust stack. The heated oil is used to preheat and then vaporize the motive fluid in the OEC's pre-heater and vaporizer, respectively. After the oil has been cooled it is returned back to the WHOH to complete the cycle.(continued on p. 19)

Technical Facility Information

FERC Form 556

Information Required for Small Power Production Facility

If you indicated in line 1k that you are seeking qualifying small power production facility status for your facility, then you must respond to the items on this page. Otherwise, skip page 10.

Pursuant to 18 C.F.R. § 292.204(a), the power production capacity of any small power production facility, together with the power production capacity of any other small power production facilities that use the same energy resource, are owned by the same person(s) or its affiliates, and are located at the same site, may not exceed 80 megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your facility is exempt from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Pub. L. 101-575, 104 Stat. 2834 (1990) *as amended by* Pub. L. 102-46, 105 Stat. 249 (1991)), respond to lines 8a through 8e below (as applicable).

8a Identify any facilities with electrical generating equipment located within 1 mile of the electrical generating equipment of the instant facility, and for which any of the entities identified in lines 5a or 5b, or their affiliates, holds at least a 5 percent equity interest.

Certification of Compliance with Size Limitations	Check here if no such facilities exist. 🔀								
	Facility location (city or county, state)	Root docket # (if any)	Common owner(s)	Maximum net power production capacity					
	1)	QF -	· · · · · · · · · · · · · · · · · · ·	kW					
	2)	QF		kW					
	3)	QF		kW					
	Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed								
	8b The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives Act) provides exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certified prior to 1995. Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Incentives Act? Yes (continue at line 8c below) Bc Was the original notice of self-certification or application for Commission certification of the facility filed on or before December 31, 1994?								
	8d Did construction of the facility commence on or before December 31, 1999? Yes No								
	8e If you answered No in line 8d, indicate whether reasonable diligence was exercised toward the completion of the facility, taking into account all factors relevant to construction? Yes No If you answered Yes, provide a brief narrative explanation in the Miscellaneous section starting on page 19 of the construction timeline (in particular, describe why construction started so long after the facility was certified) and the diligence exercised toward completion of the facility.								
on of Compliance Use Requirements	Pursuant to 18 C.F.R. § 292.204(b), qualifying small power production facilities may use fossil fuels, in minimal amounts, for only the following purposes: ignition; start-up; testing; flame stabilization; control use; alleviation or prevention of unanticipated equipment outages; and alleviation or prevention of emergencies, directly affecting the public health, safety, or welfare, which would result from electric power outages. The amount of fossil fuels used for these purposes may not exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter.								
	9a Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel:								
	Applicant certifies that the facility will use fossil fuels <i>exclusively</i> for the purposes listed above.								
catiuel	9b Certification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fuel used annually:								
Certifi with F	Applicant certifies that the amount of fossil fuel used at the facility will not, in aggregate, exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter.								