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3/8/2019 3:58:00 PM Submitted to DOE

U.S. Department of Energy Electricity Delivery and Energy Reliability Form OE-417

ELECTRIC EMERGENCY INCIDENT AND DISTURBANCE REPORT

OMB No. 1901-0288 Approval Expires: 05/31/2021 Burden Per Response; 1.8 hours

NOTICE: This report is mandatory under Public Law 93-275. Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For the sanctions and the provisions concerning the confidentiality of information submitted on this form, see General Information portion of the instructions. Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

RESPONSE DUE:

Within 1 hour of the incident, submit Schedule 1 and lines M - Q in Schedule 2 as an Emergency Alert report if criteria 1-8 are met.

Within 6 hours of the incident, submit Schedule 1 and lines M - Q in Schedule 2 as a Normal Report if only criteria 9-12 are met.

By the later of 24 hours after the recognition of the incident <u>OR</u> by the end of the next business day submit Schedule 1 & lines M - Q in Schedule 2 as a System Report if criteria 13-24 are met. Note: 4 00pm local time will be considered the end of the business day

Submit updates as needed and/or a final report (all of Schedules 1 and 2) within 72 hours of the incident

For NERC reporting entities registered in the United States; NERC has approved that the form OE-417 meets the submittal requirements for NERC. There may be other applicable regional, state and local reporting requirements.

METHODS OF FILING RESPONSE

(Retain a completed copy of this form for your files.)

Online:

Submit form via online submission at: https://www.oe.netl.doe.gov/OE417/

FAX:

FAX Form OE-417 to the following facsimile number: (202) 586-8485.

Alternate:

Status) on Line A below.

If you are unable to submit online or by fax, forms may be e-mailed to doehqeoc@hq.doe.gov, or call and report the information to the

following telephone number: (202) 586-8100.

SCHEDULE 1 -- ALERT CRITERIA

(Page 1 of 4)

Criteria for Filing (Check all that apply) See Instructions For More Information Physical attack that causes major interruptions or impacts to critical infrastructure facilities or to operations [X] Cyber event that causes interruptions of electrical system operations EMERGENCY ALERT 3. [] Complete operational failure or shut-down of the transmission and/or distribution electrical system File within 1-Hour 4. [] Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise If any box 1-8 on the right is blacked out area or within the partial failure of an integrated electrical system checked, this form must be filed within 1 hour of the 5. [] Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident; check Emergency Alert (for the Alert Status) on Line A below. 6. Firm load shedding of 100 Megawatts or more implemented under emergency operational policy 7. [] System-wide voltage reductions of 3 percent or more 8. [] Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System NORMAL REPORT 9. [] Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which File within 6-Hours targets components of any security systems If any box 9-12 on the right is checked AND none of the 10. [X] Cyber event that could potentially impact electric power system adequacy or reliability boxes 1-8 are checked, this 11. [.] Loss of electric service to more than 50,000 customers for 1 hour or more form must be filed within 6 hours of the incident; check 12. [] Fuel supply emergencies that could impact electric power system adequacy or reliability Normal Report (for the Alert

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		SCHEDULE 1 ALERT CRITERIA CONTINUED				
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	13.5					
	13. [Damage or destruction of a Facility within its Reliability Coordinator Area, Balancing Authority Area or Transmission Operator Area that results in action(s) to avoid a Bulk Electric System Emergency.				
	14. [] Damage or destruction of its Facility that results from actual or suspected intentional human action.				
	15. [Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.				
SYSTEM REPORT File within 1-Business Day	16. [Physical threat to its Bulk Electric System control center, excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the control center. Or suspicious device or activity at its Bulk Electric System control center.				
If any box 13-24 on the right is checked AND none of the boxes 1-12 are checked, this	17. [1 Bulk Electric System Emergency resulting in voltage deviation on a Facility, A voltage deviation equal to or greater than 10% of nominal voltage sustained for greater than or equal to 15 continuous minutes.				
form must be filed by the later of 24 hours after the recognition of the incident OR	18. [] Uncontrolled loss of 200 Megawatts or more of firm system loads for 15 minutes or more from a single incident for entities with previous year's peak demand less than or equal to 3,000 Megawatts				
by the end of the next business day. <i>Nota</i> 4:00pm local time will be considered the end of	19. [] Total generation loss, within one minute of: greater than or equal to 2,000 Megawatts in the Eastern or Western Interconnection or greater than or equal to 1,400 Megawatts in the ERCOT Interconnection.				
the business day, Check System Report (for the Alert Status) on Line A below.	20. [] Complete loss of off-site power (LOOP) affecting a nuclear generating station per the Nuclear Plant Interface Requirements.				
	21.[] Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).				
	22. [J Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.				
	23. [] Complete loss of Interpersonal Communication and Alternative Interpersonal Communication capability affecting its staffed Bulk Electric System control center for 30 continuous minutes or more.				
	24. [] Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.				
	•					

If significant changes have occurred after filing the initial report, re-file the form with the changes and check Update (for the Alert Status) on Line A below.

The form must be re-filed within 72 hours of the incident with the latest information and Final (Alert Status) checked on Line A below, unless updated

LINE NO:				ing (chi (disame))		
Α.	Alert Status (check one)	Emergency Alert [] 1 Hour	Normal Report [] 6 Hours	System Report [] I Business Day	Update [X] As required	Final [] 72 Hours
В.	Organization Name	sPower				
C.	Address of Principal Business Office	2180 South 1300	East Suite 600 Sá	itt Lake City Utah 8	34106	

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D.

E.

F.

G.

Geographic Area(s) Affected

(County, State)

Date/Time Incident Began

(mm-dd-yy/hh:mm) using 24-hour clock

Date/Time Incident Ended

(mm-dd-yy/ hh:mm) using 24-hour clock

Did the incident/disturbance originate in your

system/area? (check one)

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Unknown [X]

SCHEDULE 1 -- ALERT NOTICE

Yes []

(Page 3 of 4) INCIDIAL AND DISTURBANCE DATA California: Kern County, Los Angeles County; Utah: Salt Lake County; Wyoming: Converse County;] Eastern] Central [X] Mountain <u> 03 - 05 -2019 / 09 : 12</u> [] Hawaii [X] Mountain уу hh] Pacific] Alaska _03_-_05_-2019_/_18_:_57_ | Eastern Central Alaska] Pacific mo dd уу [] Hawaii

No[]

H. Estimate of Amount of Demand In (Peak Megawatts)			Zero [X]				Unknown []
	L Estimate of Number of Customers Af			ied Zero [X			Unknown []
	.,,	SCHEI J. Caúse		E 1 — TYPE OF EMERO Check all that apply K. Impact	BENC	ΣY	L. Action Taken
	Vandalis Theft Suspicio Cyber ex Cyber ex Fuel sup deficient Generate interrupt failure Transmi substatic Failure a Weather	attack f physical attack sin us activity rent (information technology) rent (operational technology) ply emergencies, interruption, or cy or loss or failure not due to fuel supply rion or deficiency or transmission ssion equipment failure (not including on or switchyard) at high voltage substation or switchyard or natural disaster		None Control center loss, failure, or evacuation Loss or degradation of control center monitor communication systems Damage or destruction of a facility Electrical system separation (islanding) Complete operational failure or shutdown of transmission and/or distribution system Major transmission system interruption (thrumore BES elements) Major distribution system interruption Uncontrolled loss of 200 MW or more of finesystem loads for 15 minutes or more Loss of electric service to more than 50,000 customers for 1 hour or more System-wide voltage reductions or 3 percentage more Voltage deviation on an individual facility of the service of the service to serve load. Generating capacity loss of 1,400 MW or magnetized to the serve load. Generating capacity loss of 2,000 MW or magnetized to serve load.	f the ee or many to or		None Shed Firm Load: Load shedding of 100 MW or more implemented under emergency operational policy (manually or automatically via UFLS or remedial action scheme) Public appeal to reduce the use of electricity for the purpose of maintaining the continuity of the electric power system Implemented a warning, alert, or contingency plan Voltage reduction Shed Interruptible Load Repaired or restored Mitigation implemented
exe	Other Addition al assessmen cute a denial	r action(s) al Information/Comments: t revealed that a frewall exploit was likely utilized to of service attack that caused the firewalls to rebook roximately 5 minute communications outage	□ • 124 •	Complete loss of off-site power to a nuclear generating station Other Additional Information/Comments:	.	Additional Information/Comment After learning of the potential cause of the reboot, started teating and deployment of an update to remember of an update to remember of an update to remember of the comment of the comm	

(approximately 5 minutes) between field devices at sites and between

the sites and sPower's Control Center

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SCHEDULE 2 - NARRATIVE DESCRIPTION

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Information on Schedule 2 will not be disclosed to the public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act, e.g., exemptions for confidential commercial information and trade secrets, certain information that could endanger the physical safety of an individual, or information designated as Critical Energy Infrastructure Information.

•	zembuone Jou civilineumu commerci	information designated as Critical Energy Infrastructure Information.
	NAME OF OFFICIA	L THAT SHOULD BE CONTACTED FOR FOLLOW-UP OR ANY ADDITIONAL INFORMATION
М.	Name	Lucas Root
N. O.	Title Telephone Number	Director, Operations (801)-(679)-(3527)
P.	FAX Number	()-()-()
Q.	E-mail Address	lroot@spower.com
nitiga nvest electri show se sup needs	ation actions taken, equipment dan igations. Be sure to identify; the e ical system separation (and if there n by capacity type and voltage size plied to meet the requirement; this i	d actions taken to resolve it. Include as appropriate, the cause of the incident/disturbance, change in frequency, maged, critical infrastructures interrupted, effects on other systems, and preliminary results from any estimate restoration date, the name of any lost high voltage substations or switchyards, whether there was any e were, what the islanding boundaries were), and the name of the generators and voltage lines that were lost e grouping). If necessary, copy and attach additional sheets. Equivalent documents, containing this information can includes the NERC EOP-004 Disturbance Report. Along with the filing of Schedule 2, a final (inpidated) Schedule 1 in line A for Alert Status on Schedule 1 and submit this and the completed Schedule 2 no later than 72 hours
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	arrative:	The second secon
U-Dwe	15 a Generally Owner, and Octobrally O	perator of wind and solar generation assets that are operated from a Control Center in Salt Lake City; UT: (b) (7)(E)
nesis quan	n terri etako erro esaki e artiberratik dakasi 1900 gibindasiak daka	These updates are origoing.
	imated Restoration Date for all Af 10 Can Receive Power	ffected Customers mo dd yy
		Pioneer, Beacon 4, ABSR, DSR1, DSR2, Beacon 1, Elevation C, WABSRB, Bayshore A, Bayshore B, Bayshore C, Solverde, firewall at sPower headquarters
r. Na	me of Assets Impacted	
111 4314 121 4314		Select if you approve of all of the information provided on the Form being submitted to the North America Electric
		Reliability Corporation (NERC) and/or the Electricity Information Sharing and Analysis Center (E-ISAC)
U. Notify NERC/E-ISAC	NERC is an entity that is certified by the Federal Energy Regulatory Commission to establish and enforce reliability standards for the bulk power system but that is not part of the Federal Government. This information would be submitted to help fulfill the respondent's requirements under NERC's reliability standards.	
	If approval is given to alert NERC and/or E-ISAC the Form will be emailed to systemawareness@nerc.net and/or operations@eisac.com when it is submitted to DOE. DOE is not responsible for ensuring the receipt of these emails by NERC and/or E-ISAC.	
		№ Notify NERC № Notify E-ISAC