U.S. Department of Energy U.S. Energy Information Administration Form EIA-411 (2011) COORDINATED BULK POWER SUPPLY AND DEMAND PROGRAM REPORT Form Approved OMB No. 1905-0129 Burden: 17 hours Approval Expires: 12/31/2013

NOTICE: This report is **mandatory** under the Federal Energy Administration Act of 1974 (Public Law 93-275) for all parts. Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For further information concerning sanctions and data protections see the provision on sanctions and the provision concerning the confidentiality of information in 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.**

SCHEDULE 1. IDENTIFICATION									
Survey Contact									
First Name: Last Name:									
Title:									
Telephone (include extension):	Fax:								
Email:									
Supervisor of Contact Person for Survey									
First Name:	Last Name:								
Title:									
Telephone (include extension):	Fax:								
Email:									
	Report For								
Regional Entity:									
	on):								
For guestions about the data regu	ested on Form EIA-411, contact the Survey Manager:								

Marie Rinkoski Spangler Telephone Number: (202) 586-2446 FAX Number: (202) 287-1934

Email: marie.rinkoski-spangler@eia.gov

U.S For	Department of Energy Informa EIA-411 (2011	SUPPLY AND DEMAND BI PROGRAM REPORT A					Burde	Form Approved OMB No. 1905-0129 Burden: 17 hours Approval Expires: 12/31/2013						
	gional Entity:													
Re	porting Party:_													
	SCHEDULE 2. PART A. HISTORICAL AND PROJECTED PEAK DEMAND AND ENERGY - MONTHLY													
	k Demand oorted	Non-Coinci	dent			С	oinci	dent			_			
plea	oincident, ase explain / not non- ncident													
	YEAR													
		2011	(Prior Y			2012 (rt Year			20	13 (Nex	t Year)	
LIN E NO.	MONTH	PEAK HOU DEMAND (MEGAWATT: (a)	R (THO	ENERG USANDS (MEGA- TTHOURS (b)	OF PEAK HOUR (THOUSANDS OF PEA DEMAND MEGA- DE		AK HOU EMAND GAWATT (a)) ;	NET ENERGY (THOUSANDS OF EGAWATTHOURS) (b)					
1	January													
2	February													
3	March													
4	April													
5	May													
6	June													
7	July													
8	August													
9	September													
0	October													
1	November													
1 2	December													
SC	HEDULE 2. P	ART B. HIS	STORIC	AL AN	D PRC	JECTE	ED PI			ND	AND E	NERG	<u>Y - AN</u>	NUAL
								YEA	AR					
			Actual	Year	Year	Year	Yea			ear	Year	Year	Year	Year
	0		Year	1	2	3	4	5)	6	7	8	9	10
	Summer Peak													
1	Demand, June- (Megawatts)	-september												
	Winter Peak Ho	our												
	Demand, Dece													
2	February (Mega													
3	Net Annual En													

U.S. Department of Energy COORDINATED BULK POWER Form Approved OMB No. 1905-0129 U.S. Energy Information Administration **SUPPLY AND DEMAND Burden: 17 hours** Form EIA-411 (2011) PROGRAM REPORT Approval Expires: 12/31/2013 Regional Entity: Reporting Party: SCHEDULE 3. PART A. HISTORICAL AND PROJECTED DEMAND AND CAPACITY - SUMMER **YEAR** LINE Year 9 Actual Year 1 Year 2 Year 10 NO. (eg 2011) (eg 2012) (eg 2013) (eg 2020) (eg 2021) **DEMAND (IN MEGAWATTS) Unrestricted Non-coincident** 1 **Peak Demand New Conservation** 1a 1b **Estimated Diversity** Additions for non-1c member load Stand-by Load Under 1d Contract **Total Internal Demand** 2 **Direct Control Load** 2a Management **Contractually Interruptible** 2b **Critical Peak Pricing with** 2c Control Load as a Capacity 2d Resource 3 **Net Internal Demand Demand Response Used for** 4a **Reserves - Spinning Demand Response Used for** 4b Reserves - Non-Spinning **Demand Response used for** 4c Regulation **Demand Response used for** Energy, Voluntary -4d **Emergency CAPACITY (IN MEGAWATTS)** TOTAL INTERNAL CAPACITY 5 (sum of 6 and 7) **EXISTING CAPACITY** 6 Existing, Certain 6a Wind Expected On-peak 6a1 **Solar Expected On-peak** 6a2 **Hydro Expected On-**6a3 **Peak Biomass Expected On-**6a4 Peak Load as a Capacity **Resource Expected On-**6a5 **Peak**

U.S. Department of Energy COORDINATED BULK POWER Form Approved OMB No. 1905-0129 **U.S. Energy Information Administration Burden: 17 hours** SUPPLY AND DEMAND Form EIA-411 (2011) PROGRAM REPORT Approval Expires: 12/31/2013 Regional Entity: Reporting Party: SCHEDULE 3. PART A. HISTORICAL AND PROJECTED DEMAND AND CAPACITY - SUMMER YEAR LINE Year 2 Actual Year 1 Year 9 Year 10 NO. (eg 2011) (eg 2012) (eg 2013) (eg 2020) (eg 2021) **CAPACITY (IN MEGAWATTS)** 6b **Existing, Other** Wind Derate On-peak 6b1 Solar Derate On-peak 6b2 6b3 **Hydro Derate On-peak Biomass Derate On-peak** 6b4 Load as a Capacity 6b5 Resource Derate Ón-peak **Energy Only** 6b6 Scheduled Outage -6b7 Maintenance Transmission-Limited 6b8 Resources **Existing, Inoperable** 6c **Existing, Certain Capacity** 6c1 **Forced Outage On-peak Existing, Other Capacity** 6c2 Forced Outage On-peak 7 **FUTURE CAPACITY ADDITIONS** 7a Future, Planned 7a1 Wind Expected On-peak Wind Derate On-peak 7a2 7a3 Solar Expected On-peak Solar Derate On-peak 7a4 Hydro Expected On-peak 7a5 Hydro Derate On-peak 7a6 Biomass Expected On-peak 7a7 Biomass Derate On-peak 7a8 Demand Response Expected 7a9 On-peak **Demand Response Derate** 7a10 On-peak Transmission-Limited 7a11 Resources Scheduled Outage -7a12 Maintenance 7a13 All Other Derates 7a14 **Energy Only** 7a1 Wind Expected On-peak Wind Derate On-peak 7a2 Solar Expected On-peak 7a3 7a4 Solar Derate On-peak 7b Future, Other Wind Expected On-peak 7b1 7b2 Wind Derate On-peak 7b3 Solar Expected On-peak Solar Derate On-peak 7b4 Hydro Expected On-peak 7b5 Hydro Derate On-peak 7b6

Biomass Expected On-peak

Biomass Derate On-peak

Energy Only

7b7

7b8 7b9

U.S. Department of Energy Form Approved OMB No. 1905-0129 COORDINATED BULK POWER **U.S. Energy Information Administration SUPPLY AND DEMAND Burden: 17 hours** Form EIA-411 (2011) PROGRAM REPORT Approval Expires: 12/31/2013 Regional Entity: Reporting Party:_ SCHEDULE 3. PART A. HISTORICAL AND PROJECTED DEMAND AND CAPACITY - SUMMER **YEAR** LINE Year 1 Year 2 Year 10 Actual Year 9 NO. (eg 2012) (eg 2021) (eg 2011) (eg 2013) (eg 2020) **CAPACITY - Continued (IN MEGAWATTS) CONCEPTUAL CAPACITY** 8 Conceptual 8a Wind Expected On-peak 8a1 Wind Derate On-peak 8a2 Solar Expected On-peak 8a3 Solar Derate On-peak 8a4 Hydro Expected On-peak 8a5 Hydro Derate On-peak 8a6 **Biomass Expected On-**8a7 Peak Biomass Derate On-peak 8a8 8a9 **Energy Only** ANTICIPATED INTERNAL 9 **CAPACITY** CAPACITY TRANSACTIONS -10 **IMPORTS** 10a Firm 10a1 Full-Responsibility Purchases Owned Capacity/Entitlement 10a2 **Located Outside the** Region/subregion 10b Non-Firm 10c **Expected** Full-Responsibility Purchases 10c1 Owned Capacity/Entitlement **Located Outside the** 10c2 Region/subregion Provisional – transactions under 10d study, but negotiations have not begun. CAPACITY TRANSACTIONS -11 **EXPORTS** 11a Firm 11a1 Full-Responsibility Purchases **Owned Capacity/Entitlement** 11a2 **Located Outside the** Region/subregion 11b Non-Firm 11c **Expected** 11c1 Full-Responsibility Purchases Owned Capacity/Entitlement Located Outside the 11c2 Region/subregion Provisional – transactions under study, but negotiations have not 11d begun.

U.S. Department of Energy COORDINATED BULK POWER Form Approved OMB No. 1905-0129 **U.S. Energy Information Administration Burden: 17 hours** SUPPLY AND DEMAND Form EIA-411 (2011) PROGRAM REPORT Approval Expires: 12/31/2013 Regional Entity: Reporting Party: SCHEDULE 3. PART A. HISTORICAL AND PROJECTED DEMAND AND CAPACITY - SUMMER YEAR LINE Year 1 Year 2 Year 9 Year 10 Actual NO. (eg 2011) (eg 2012) (eg 2013) (eg 2020) (eg 2021) **CAPACITY - Continued (IN MEGAWATTS) EXISTING, CERTAIN & NET FIRM** 12 **TRANSACTIONS** ANTICIPATED CAPACITY 13 **RESOURCES** PROSPECTIVE CAPACITY 14 **RESOURCES** TOTAL POTENTIAL CAPACITY 15 **RESOURCES** ADJUSTED POTENTIAL CAPACITY 15a RESOURCES Confidence of Future, Other (7b) 16a 16b **Net Future, Other Resources Confidence of Conceptual (8)** 16c 16d **Net Conceptual Resources** Region/subregion Target Capacity 17C Margin Region/subregion Target Reserve 17R Margin Margins **Existing Certain and Net Firm** 18C **Transactions** 19C **Deliverable Capacity Resources** 20C **Prospective Capacity Resources** 21C **Total Potential Resources** 22C **Adjusted Potential Resources Existing Certain and Net Firm** 18R **Transactions** 19R **Deliverable Capacity Resources 20R Prospective Capacity Resources Total Potential Resources 21R 22R Adjusted Potential Resources** Other Capacity < 1 MW 23 **Distributed Generator Capacity** 24 >= 1 MW 25 **EIA-860 Capacity Total**

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	nergy Information Administrati	on	SUPPLY AND			Burden: 17 hours					
	EIA-411 (2011)		PROGRAM	REPURI	Approval Expires: 12/31/2013						
Regio	nal Entity:										
Repo	ting Party:										
SC	HEDULE 3. PART B. HIST	ORICAL	AND PROJE	CTED DEMA	ND AND C	CAPACITY -	WINTER				
				YE	AR						
LINE NO.		Actual	Year 1	Year 2		Year 9	Year 10				
NO.		(eg 2011)	(eg 2012)	(eg 2013)		(eg 2020)	(eg 2021)				
		DE	MAND (IN MEG	SAWATTS)							
1	Unrestricted Non-coincident										
	Peak Demand										
1a	New Conservation										
1b	Estimated Diversity Additions for non-										
1c	member load										
	Stand-by Load Under										
1d	Contract										
2	Total Internal Demand										
2a	Direct Control Load Management										
2b	Contractually Interruptible										
2c	Critical Peak Pricing with Control										
2d	Load as a Capacity Resource										
	- 1100001100										
3	Net Internal Demand										
4a	Demand Response Used for Reserves - Spinning										
4b	Demand Response Used for Reserves – Non-Spinning										
4c	Demand Response used for Regulation										
4d	Demand Response used for Energy, Voluntary –										
-Tu	Emergency										
		CAI	PACITY (IN ME	GAWATTS)							
5	TOTAL INTERNAL CAPACITY (sum of 6 and 7)										
6	EXISTING CAPACITY		+								
6a	Existing, Certain										
6a1	Wind Expected On-peak										
6a2	Solar Expected On-peak										
6a3	Hydro Expected On- Peak										
6a4	Biomass Expected On- Peak										
	Load as a Capacity										
6a5	Resource Expected On- Peak										

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	al Entity:					•					
Reporti	ng Party:				_						
SCH	EDULE 3. PART B. HISTORIO	AL AND PI	ROJECTED	DEMAN	ND AND CA	APACITY - V	VINTER				
LINE		YEAR									
NO.		Actual	Year 1	Year 2		Year 9	Year 10				
110.		(eg 2011)	(eg 2012)	(eg 201	3)	(eg 2020)	(eg 2021)				
		CAPACITY (I	N MEGAWA	TTS)							
6b	Existing, Other										
6b1	Wind Derate On-peak										
6b2	Solar Derate On-peak										
6b3	Hydro Derate On-peak										
6b4	Biomass Derate On-peak										
6b5	Load as a Capacity Resource Derate On-peak										
6b6	Energy Only										
900	Scheduled Outage –										
6b7	Maintenance										
6b8	Transmission-Limited										
	Resources										
0											
6c	Existing, Inoperable Existing, Certain Capacity										
6c1	Forced Outage On-peak										
6c2	Existing, Other Capacity										
	Forced Outage On-peak										
7	FUTURE CAPACITY ADDITIONS										
7a	Future, Planned										
7a1	Wind Expected On-peak										
7a2	Wind Derate On-peak										
7a3	Solar Expected On-peak										
7a4	Solar Derate On-peak										
7a5	Hydro Expected On-peak										
7a6 7a7	Hydro Derate On-peak										
7a7 7a8	Biomass Expected On-peak Biomass Derate On-peak										
	Demand Response Expected										
7a9	On-peak										
7a10	Demand Response Derate On-peak										
7a11	Transmission-Limited										
	Resources										
7a12	Scheduled Outage – Maintenance										
7a13	All Other Derates										
7a14	Energy Only										
7b	Future, Other										
7b1 7b2	Wind Expected On-peak Wind Derate On-peak										
7b2 7b3	Solar Expected On-peak										
7b3 7b4	Solar Derate On-peak										
7b5	Hydro Expected On-peak										
7b6	Hydro Derate On-peak										
7b7	Biomass Expected On-peak										
7b8	Biomass Derate On-peak										
7b9	Energy Only										

U.S. Department of Energy Form Approved OMB No. 1905-0129 COORDINATED BULK POWER **U.S. Energy Information Administration Burden: 17 hours SUPPLY AND DEMAND** Form EIA-411 (2011) PROGRAM REPORT Approval Expires: 12/31/2013 Regional Entity: Reporting Party: SCHEDULE 3. PART B. HISTORICAL AND PROJECTED DEMAND AND CAPACITY - WINTER **YEAR** LINE Actual Year 1 Year 2 Year 9 Year 10 NO. (eg 2011) (eg 2012) (eg 2013) (eg 2020) (eg 2021) **CAPACITY (IN MEGAWATTS) CONCEPTUAL CAPACITY** 8 8a Conceptual Wind Expected On-peak 8a1 Wind Derate On-peak 8a2 Solar Expected On-peak 8a3 Solar Derate On-peak 8a4 **Hydro Expected On-peak** 8a5 8a6 Hydro Derate On-peak 8a7 **Biomass Expected On-**Peak Biomass Derate On-peak 8a8 8a9 **Energy Only** ANTICIPATED INTERNAL 9 **CAPACITY CAPACITY TRANSACTIONS -**10 **IMPORTS** 10a Firm 10a1 Full-Responsibility Purchases Owned Capacity/Entitlement 10a2 **Located Outside the** Region/subregion 10b Non-Firm Expected 10c Full-Responsibility Purchases 10c1 Owned Capacity/Entitlement **Located Outside the** 10c2 Region/subregion Provisional – transactions under study, but negotiations have not 10d begun. **CAPACITY TRANSACTIONS -**11 **EXPORTS** 11a Firm 11a1 Full-Responsibility Purchases Owned Capacity/Entitlement **Located Outside the** 11a2 Region/subregion 11b Non-Firm **Expected** 11c Full-Responsibility Purchases 11c1 Owned Capacity/Entitlement 11c2 **Located Outside the** Region/subregion Provisional – transactions under 11d study, but negotiations have not

begun.

U.S. Department of Energy Form Approved OMB No. 1905-0129 COORDINATED BULK POWER **U.S. Energy Information Administration Burden: 17 hours** SUPPLY AND DEMAND Form EIA-411 (2011) PROGRAM REPORT Approval Expires: 12/31/2013 Regional Entity: Reporting Party: SCHEDULE 3. PART B. HISTORICAL AND PROJECTED DEMAND AND CAPACITY - WINTER YEAR LINE 2008 2009 2010 2011 2012 2013 NO. (eg 2011) (eg 2012) (eg 2013) (eg 2020) (eg 2021) **CAPACITY - Continued (IN MEGAWATTS) EXISTING, CERTAIN & NET FIRM** 12 **TRANSACTIONS ANTICIPATED CAPACITY** 13 **RESOURCES** PROSPECTIVE CAPACITY 14 **RESOURCES TOTAL POTENTIAL CAPACITY** 15 **RESOURCES** ADJUSTED POTENTIAL CAPACITY 15a **RESOURCES** Confidence of Future, Other (7b) 16a 16b **Net Future, Other Resources** 16c **Confidence of Conceptual (8)** 16d **Net Conceptual Resources** Region/subregion Target Capacity 17C Margin Region/subregion Target Reserve 17**R** Margin Margins **Existing Certain and Net Firm** 18C **Transactions** 19C **Deliverable Capacity Resources** 20C **Prospective Capacity Resources Total Potential Resources** 21C 22C **Adjusted Potential Resources Existing Certain and Net Firm** 18R **Transactions** 19R **Deliverable Capacity Resources** 20R **Prospective Capacity Resources** 21R **Total Potential Resources 22R Adjusted Potential Resources** Other Capacity < 1 MW 23 **Distributed Generator Capacity** 24 >= 1 MW 25 **EIA-860 Capacity Total**

SCHEDULE 4 - RESERVED

U.S. Department of Energy Form Approved OMB No. 1905-0129 COORDINATED BULK U.S. Energy Information Administration **Burden: 17 hours POWER SUPPLY AND** Form EIA-411 (2011) **DEMAND PROGRAM** Approval Expires: 12/31/2013 REPORT Regional Entity:____ Reporting Party:_ SCHEDULE 5. BULK ELECTRIC TRANSMISSION SYSTEM MAPS LINE NO. Specify the Number of Maps 1 Provided: 2 For each map provide file name, coverage, and map software: MAP NUMBER (if applicable) FILE NAME (if applicable) MAP SOFTWARE (if applicable) (a) (b) (d)

U.S. E	Department of Energy Energy Information Adn EIA-411 (2011)	tion	SUPPLY AND DEMAND					Form Approved OMB No. 1905-0129 Burden: 17 hours Approval Expires: 12/31/2013					
Regi	onal Entity:												
Repo	orting Party:												
		DULE	6A. EX	KISTIN	G AND	PROJ	IECTE	O CIF	RCUIT	MILES			
		CIRCUIT MILES											
LINE					AC (kV)			DC (kV)					
NO.		100- 120	121- 150	151- 199	200- 299	300- 399	400- 599	600 +	100- 199	200- 299	300- 399	400- 599	600 +
1	Existing (as of last day of prior report year)												
2	Under Construction (as of first day of current report year)												
3	Planned (completion within first five years)												
4	Conceptual (completion within first five years)												
5	Planned (completion within second five years)												
6	Conceptual (completion within second five years)												
7	Sum of Existing, Under Construction, and Planned Transmission (full ten- year period)												
	Sum of Existing,												

8 Planned, and Conceptual Transmission (full tenyear period)

Note: Summation columns for AC, DC, and Grand Total are not shown.

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		tion Administrat	ion					DEMAN	כ		len: 17 h				
	IA-411 (2011)				PR	ROGRA	AM R	EPORT		Appı	oval Ex	oires:	12/31/20	13	
Region	nal Entity:														
Repor	ting Party:_														
		ULE 6B. CHA	RAC	TFR	ISTI	CS O	F PF	ROJEC	TED 1	ΓRΔN	SMISS	ION	INFS		
LINE	SCIILD	OLL OB. CITA							NSMIS					ION LINE	
NO.				TRANSMISSION LINE (a)			II 7 L	IIVA	(b			1117	(c)		
	MISSION LIN	E IDENTIFICATION	ON		(-/					<u> </u>			(-)		
1	Project Name	e													
2	Project Statu	ıs													
3	Tie line														
4a	Primary Driv														
4b	Secondary D														
5		cation (From)													
6	Terminal Loc														
		E OWNERSHIP													
7	Company N														
8	EIA Compar														
9	Type of Org														
10 TDANG	Percent Own														
11 11															
11	Line Length	(miles)	-	1	г 1	r 1	1	r 1	г 1		. 1	r 1	r 1	- r 1	
12	Line Type		[OF		[] UG	[] SM		[] OH	[] UG		[] SM	[] OH	[] UG	[] SM	
			1		<u>г</u> т	SIVI		[]	1 T	<u> </u>	OIVI	r 1	[]	SIVI	
13	13 Voltage Type		AC		DC .			AC	DC,			AC	DC,		
	Voltage Ope	erating						7.0				7.0			
14	(Kilovolts)	g													
15	Voltage Design (Kilovolts)														
16															
	Conductor I	Material Type													
17		es from legend													
	below)														
18	Bundling Ar														
	•	es from legend)													
19	Circuits per	Structure													
	Present	<u> </u>													
20	Circuits per	Structure													
	Ultimate	Tuma	D.	ala M	-4:-	J. F	-,-	Dala	Matau	ial. T		Del	- Mataula		
24	Pole/Tower	ıype es from legend)		ole M			<u>, </u>		Mater ole Type				e Materia ole Type		
21 22	Capacity Ra			Pole	ı ype:	· L		PO	ле гур	e: [F.	ole Type	<u>: L _ J</u>	
23		Service Date													
24		-Service Date													
25	Line Delaye													-	
26	Cause of De														
		· y				LEG	END								
	no Typo	Voltage Type	Cond	uctor B	latoria			lling Arron	aomont.		-	olo/Te:	vor Type		
	ne Type	Voltage Type	Cond	uctor N	nateria	птуре		lling Arran	igement				ver Type		
OH=Overh UG=Under				luminu			1 = Si 2 = D			Pole Ma	aterial		Pole Type		
SM=Subm		DC=Direct Current		= Alum			3 = Tr	iple		W = Wo	ood		P = Single	pole	
			Compo Reinfo	osite Co rced	onduct	tor		uadruple		C = Concrete			H = H-frame		
				= Alum	inum (Core	OT =	Other		S = Ste	el mbination		T = Tower U = Underground		
				Reinfor	ced					P = Coi	mposite		O = Officer	₃ . ou.iu	
			CU = C SUPER		ercon	ducting				O = Other					
			OT = 0			29									

U.S. Department of Energy Form Approved OMB No. 1905-0129 COORDINATED BULK POWER U.S. Energy Information Administration **SUPPLY AND DEMAND Burden: 17 hours** Form EIA-411 (2011) Approval Expires: 12/31/2013 PROGRAM REPORT Regional Entity: Reporting Party:_ SCHEDULE 7. PART A. ANNUAL DATA ON TRANSMISSION LINE OUTAGES FOR AC LINES (Report following data for each applicable EHV Voltage Class) LINE NO. 200-299 kV 300-399kV 400-599kV 600-799 kV Reserved **Applicable AC Voltage Class** 1 (a) (b) (c) (d) (e) Automatic (Unscheduled), Sustained Outages for Specified Voltage Class **Number of Outages** 2 Number of Circuit-Hours Out of Service 3 Initiating (I) and Sustained (S) Causes ī 4 S S ı S S I S (Count of Outages per Cause Category) Weather, excluding lightning 4a 4b Lightning **Environmental** 4c **Foreign Interference** 4d Contamination 4e 4f Fire Vandalism, Terrorism, or 4g **Malicious Acts** 4h Failed AC Substation Equipment **Failed AC/DC Terminal Equipment** 4i 4j **Failed Protection System Equipment** 4k **Failed AC Circuit Equipment** Failed DC Circuit Equipment 41 **Human Error** 4m Vegetation 4n **Power System Condition** 40 Unknown 4p 4q Other Non-Automatic, Operational Outages for Specified Voltage Class **Number of Outages** 5 Number of Circuit-Hours Out of Service 6 7 Outage Cause (Count) 7a **Emergency** 7b **System Voltage Limit Mitigation System Operating Limit Mitigation** 7c (excluding voltage) 7d Other Operational Outage Non-Automatic, Planned Outages for Specified Voltage Class 8 **Number of Outages** Number of Circuit-Hours Out of Service 9 **Outage Cause (Count)** 10 **Maintenance and Construction** 10a **Third Party Request** 10b 10c Other Planned Outage

U.S. Department of Energy
U.S. Energy Information Administration
Form EIA-411 (2011)

COORDINATED BULK POWER

Form Approved OMB No. 1905-0129 Burden: 17 hours

Form EIA-411 (2011) PROGRAM REPORT Approval Expires: 12/31/2013													
Regio	onal Entity:												
Repo	orting Party:												
	CHEDULE 7. PART B, ANNUAL	DATAO	N TP	NON	AISSI	ONI	INF (ALIT/	CES	FOE	ם מ	LINE	2
30	(Report following									, , О	\ DC		.5
LINE	(1.000.110.10.11	g wata ioi	<u> </u>	рршос			go	<u> </u>					
NO.													
		+	± 100-		200-	± 3	00-	+ 4	00-	± 5	00-	± 6	00-
1	Applicable DC Voltage Class		99 kV		9 kV	399 kV		kV 499 kV			599 kV		kV
			(a)	(b)	(0	:)	(0	d)	(e)		(f)	
												(-)	
	Automatic (Unschedu	led), Susta	ained C	utage	es tor	Specif	ied V	oltage	Class	5			
2	Number of Outages												
3	Number of Circuit-Hours Out of Serv				1								
4	Initiating (I) and Sustained (S) Cause (Count of Outages per Cause Category)		S	ı	S	ı	S	ı	S	ı	S	ı	S
4a	Weather, excluding lightning	y)											
4b	Lightning												
4c	Environmental												
4d	Foreign Interference												
4e	Contamination												
4f	Fire												
4g	Vandalism, Terrorism, or											ļ	
	Malicious Acts												
4h	Failed AC Substation Equipment												
4i	Failed AC/DC Terminal Equipment	-4											
4j 4k	Failed Protection System Equipment Failed AC Circuit Equipment	nτ											
41	Failed DC Circuit Equipment												
4m	Human Error												
4n	Vegetation												
40	Power System Condition												
4p	Unknown												
4q	Other												
	Non-Automatic, O	perationa	I Outag	jes fo	r Spec	ified \	/oltag	e Clas	SS	1			
5	Number of Outages	_											
6	Number of Circuit-Hours Out of Serv	rice											
7	Outage Cause (Count) Emergency												
7a 7b	System Voltage Limit Mitigation												
	System Operating Limit Mitigation												
7c	(excluding voltage)											ı	
7d	Other Operational Outage											·	
	Non-Automatic,	Planned (Outage	s for S	Specif	ied Vo	ltage	Class	<u> </u>				
8													
9	Number of Circuit-Hours Out of Serv	rice											
10	Outage Cause (Count)												
10a	Maintenance and Construction												
10b	Third Party Request												
10c	Other Planned Outage												

U.S. Department of Energy Form Approved OMB No. 1905-0129 COORDINATED BULK POWER **U.S. Energy Information Administration** SUPPLY AND DEMAND **Burden: 17 hours** Form EIA-411 (2011) PROGRAM REPORT Approval Expires: 12/31/2013 Regional Entity: Reporting Party: SCHEDULE 7. PART C. ANNUAL DATA ON TRANSFORMER OUTAGES (Report following data for each applicable class) LINE NO. 600-799 **Applicable Transformer High-Side Voltage Class** 300-399 400-599 200-299 kV k۷ k۷ k۷ 1 Reserved Note: To be reported on this form, the Transformer (a) (b) (c) (d) (e) must have a low-side voltage ≥200 kV. Automatic (Unscheduled), Sustained Outages for Specified Voltage Class Number of Outages 2 **Number of Transformer-Hours Out of Service** 3 Initiating (I) and Sustained (S) Causes (Count of 4 S S ı S S ı S **Outages per Cause Category)** 4a Weather, excluding lightning Lightning 4b 4c **Environmental Foreign Interference** 4d Contamination 4e **Fire** 4f Vandalism, Terrorism, or 4g **Malicious Acts** 4h **Failed AC Substation Equipment Failed AC/DC Terminal Equipment** 4i **Failed Protection System Equipment** 4i **Failed AC Circuit Equipment** 4k 41 **Failed DC Circuit Equipment** 4m **Human Error** Vegetation 4n **Power System Condition** 40 Unknown 4p Other 4q Non-Automatic, Operational Outages for Specified Voltage Class **Number of Outages** 5 **Number of Transformer-Hours Out of Service** 6 **Outage Cause (Count)** 7 7a **Emergency System Voltage Limit Mitigation** 7b **System Operating Limit Mitigation** 7c (excluding voltage) 7d Other Operational Outage Non-Automatic, Planned Outages for Specified Voltage Class **Number of Outages** 8 Number of Transformer-Hours Out of Service 9 **Outage Cause (Count)** 10 **Maintenance and Construction** 10a Third Party Request 10b Other Planned Outage 10c

U.S. Department of Energy Form Approved OMB No. 1905-0129 COORDINATED BULK POWER **U.S. Energy Information Administration Burden: 17 hours** SUPPLY AND DEMAND Form EIA-411 (2011) PROGRAM REPORT Approval Expires: 12/31/2013 Regional Entity: Reporting Party: SCHEDULE 7. PART D, ELEMENT INVENTORY AND EVENT SUMMARY (Report following data for each applicable voltage class) LINE NO. 200-299 300-399 400-599 600-799 **All Voltages** k۷ k۷ k۷ kV 1 **Applicable AC Circuit Voltage Class** (e) (a) (b) (c) (d) 2 **Number of AC Circuits (Total)** 2a Overhead 2b Underground 3 **Number of AC Circuit Miles (Total) Overhead** 3a 3b Underground **Number of AC Multi-Circuit Structure** 4 Miles ± 100-± 200-± 300-+ 400 -± 500 -+ 600 -299 kV 399 kV 499kV 599kV 799kV 5 **Applicable DC Circuit Voltage Class** 199 kV (b) (c) (d) (e) (f) (a) **Number of DC Circuits (Total)** 6 6a **Overhead** 6b Underground 7 **Number of DC Circuit Miles (Total)** 7a Overhead 7b **Underground Applicable Transformer High-Side** 300-399 400-599 600-799 200-299 **Voltage Class** Reserved k۷ k۷ kV kV 8 Note: To be reported on this form, the (e) Transformer must have a low-side voltage (a) (b) (c) (d) ≥200 kV. 9 **Number of Transformers Total Number of Events (all Voltage** 10 Classes)

U.S. Department of Energy Form Approved OMB No. 1905-0129 COORDINATED BULK U.S. Energy Information Administration **POWER SUPPLY AND Burden: 17 hours** Form EIA-411 (2011) DEMAND PROGRAM Approval Expires: 12/31/2013 REPORT Regional Entity: Reporting Party:_ SCHEDULE 8. BULK TRANSMISSION FACILITY POWER FLOW CASES LINE NO. Case Name: 2 Year of Study: Case Number: 3 PROSPECTIVE FACILITIES AND CONNECTIONS PROJECTED **IN-SERVICE** DATE **CONNECTIONS** NAME AND TYPE 4 (e.g., 12-2004) **BUS NUMBER BUS NAME** OF FACILITY (a) (b) (c) (d)

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