

Full Network Model Scope for FNM DB22M1

(Production 1/14/2022)

Revision History

Effective Date	Version	Description
11/4/2021	1.0	Final scope by due date. The scope is considered finalized without any addendum attached
1/14/2022	2.0	Add additional information

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(Production 1/14/2022)

I. NRI Projects

No	PTO	Resource ID	Project Name / Description	Project Key	Capacity (MW)	POD	Additional Information
1	PGAE	CASCES_6_CESBT1	Cascade Energy Storage	16AS0091	25	WEBER 60 kV Bus	New Storage resource
2	PGAE	JAVASR_1_JAVSR1	Java Solar	17GEN1842	14	Leprino Switching Station 115kV Bus	Existing resource, EMS Pmax increase from 13.5 ME to 14 MW
3	SCE	CRIMSN_2_CRMBT1	Crimson	15AS881904	200	Colorado River 230 kV Bus	New Non-Generation resource
4	SCE	CASADB_1_CD4GT1	Casa Diablo 4	21GEN18082	40	Control 115 kV Bus	New Conventional resource
5	SCE	RATSKE_2_RBSSB1	Rabbitbrush Solar 1	21NGR19093	60	Whirlwind 230 kV North Bus Section B	New Non-Generation resource
6	SCE	RATSKE_2_RBSSB2	Rabbitbrush Solar 2	21NGR19094	40	Whirlwind 230 kV North Bus Section B	New Non-Generation resource
7	SCE	CRIMSN_2_CRMBT2	Crimson 2	21NGR19267	150	Colorado River 230 kV Bus	New Non-Generation resource
8	SCE	BIGSKY_2_AS2BT1	Antelope Solar 2 LAB	21NGR19447	127	Antelope 230 kV Bus	New Non-Generation resource
9	SCE	SANBRN_2_SS2SB4	Sanborn Solar 2 Edwards Sanborn S4	21NGR19805	54	Windhub 230kV Bus	New Non-Generation resource
10	SCE	SANBRN_2_ES1BT3	EdSan 1 Sanborn 1 PMAX Increase	21NGR20171	51	Windhub 230kV Bus	Existing resource, EMS Pmax increase from 40 MW to 51 MW
11	SDGE	LECONT_2_LESBT1	LeConte Energy Storage	15AS882626	125	Imperial Valley 230 kV North West Bus	New Storage resource
12	SDGE	FALBRK_6_FESBT1	Fallbrook Energy Storage	15AS882736	40	Avocado 69 kV North Bus	New Non-Generation resource
13			Alpaugh 20 (IRG079)	21RIG17958	20		RIG Reconfiguration
14			Alpaugh 50 (IRG080)	21RIG17959	50		RIG Reconfiguration
15			Amarillo (IRG365)	21RIG17960	20		RIG Reconfiguration
16			Atwell Island West (IRG198)	21RIG17961	20		RIG Reconfiguration
17			Avenal 1 (IRG283)	21RIG17964	7.9		RIG Reconfiguration
18			Avenal 2 (IRG284)	21RIG17965	7.9		RIG Reconfiguration
19			Azul (IRG364)	21RIG17968	20		RIG Reconfiguration
20			Corcoran 2 (IRG203)	21RIG17969	19.75		RIG Reconfiguration
21			Corcoran (IRG115)	21RIG17970	20		RIG Reconfiguration
22			Ducor 1 (IRG299)	21RIG17972	20		RIG Reconfiguration
23			Freshwater Solar (IRG241)	21RIG17973	20		RIG Reconfiguration
24			Frontier Blackwell (IRG247)	21RIG17974	20		RIG Reconfiguration
25			Oro Loma 1 (IRG313)	21RIG17975	10		RIG Reconfiguration
26			Oro Loma 2 (IRG314)	21RIG17976	10		RIG Reconfiguration
27			Rojo & Verde (IRG363)	21RIG17978	160		RIG Reconfiguration
28			White River (IRG105)	21RIG17979	20		RIG Reconfiguration
29			White River West (IRG154)	21RIG17980	19.75		RIG Reconfiguration

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(Production 1/14/2022)

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30			Coram Brodie (IRG040)	21RIG17997	102		RIG Reconfiguration
31			Helms Unit 1, 2021	21RIG18090	407		RIG Reconfiguration
32			Helms Unit 2, 2021	21RIG18091	404		RIG Reconfiguration
33			Helms Unit 3, 2021	21RIG18092	404		RIG Reconfiguration
34			BARRE6PEAKER Frequency Response	21RIG18230	49.8		RIG Reconfiguration
35			ETIWND6GRPLND Frequency Response	21RIG18232	49.8		RIG Reconfiguration
36			CENTER6PEAKER Frequency Response	21RIG18233	49.8		RIG Reconfiguration
37			MIRLOM6PEAKER Frequency Response	21RIG18234	49.8		RIG Reconfiguration
38			MNDALY6MCGRTH Frequency Response	21RIG18235	49.8		RIG Reconfiguration
39			Kumeyaay Wind (IRG005A)	21RIG18253	50		RIG Reconfiguration
40			Alpine Alpine (IRG055)	21RIG18653	68.04		RIG Reconfiguration
41			Avenal Park Solar (IDG103)	21RIG18678	6		RIG Reconfiguration
42			Blythe Solar (IDG066)	21RIG18679	21		RIG Reconfiguration
43			Blythe Solar 2 (IRG311)	21RIG18680	20		RIG Reconfiguration
44			Borrego (IRG056)	21RIG18681	26		RIG Reconfiguration
45			Kansas South LLC (IRG082)	21RIG18683	20		RIG Reconfiguration
46			Oasis Solar (IRG238)	21RIG18684	20		RIG Reconfiguration
47			Sand Drag Solar (IDG106)	21RIG18685	19		RIG Reconfiguration
48			Sun City Solar (IDG107)	21RIG18686	20		RIG Reconfiguration
49			TA High Desert (IRG089)	21RIG18687	20		RIG Reconfiguration
50			Burney Biomass (IRG217)	21RIG18688	18.2		RIG Reconfiguration
51			Lincoln Biomass (IRG218)	21RIG18689	9		RIG Reconfiguration
52			Quincy Biomass (IRG219)	21RIG18690	23.2		RIG Reconfiguration
53			Anderson Biomass (IRG171)	21RIG18691	27.2		RIG Reconfiguration
54			Karen Avenue Wind Farm (IRG192)	21RIG18696	11.7		RIG Reconfiguration
55			San Gorgonio Farms Wind Farm (IRG036)	21RIG18697	31		RIG Reconfiguration
56			Buena Vista Wind (IDG008)	21RIG18708	38		RIG Reconfiguration
57			Chino Hills (IRG397)	21RIG18730	26		RIG Reconfiguration
58			Ellwood ISRG0330	21RIG18734	50		RIG Reconfiguration
59			Dillon; IDG029A; BAL-003 Dillon RIG R2	21RIG18822	45		RIG Reconfiguration
60			El Segundo Energy Center (IRG054)	21RIG18846	526		RIG Reconfiguration
61			Mojave Solar Project (IRG153)	21RIG18937	275		RIG Reconfiguration
62			Brea Power II RIG Reconfiguration for Frequency Response	21RIG18941	29.185		RIG Reconfiguration
63			Chevron West Side (IDG108)	21RIG19042	75		RIG Reconfiguration
64			Chevron Sycamore Cogen (SYCAMR)	21RIG19043	75		RIG Reconfiguration
65			Mt. Signal [IRG125]	21RIG19067	200		RIG Reconfiguration
66		PGZP 2 PDRP50	PGZP 2 PDRP50	21RIG19103	5		RIG Reconfiguration

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(Production 1/14/2022)

No	PTO	Resource ID	Project Name / Description	Project Key	Capacity (MW)	POD	Additional Information
67		PGNB_2_PDRP40	PGNB_2_PDRP40	21RIG19104	5		RIG Reconfiguration
68		PGSI_1_PDRP51	PGSI_1_PDRP51	21RIG19105	5		RIG Reconfiguration
69		SCNW_6_PDRP69	SCNW_6_PDRP69	21RIG19106	5		RIG Reconfiguration
70		SCHD_1_PDRP66	SCHD_1_PDRP66	21RIG19107	5		RIG Reconfiguration
71			Gateway Energy Storage (IRG425)	21RIG19142	250		RIG Reconfiguration
72			Rio Bravo Fresno (IRG361)	21RIG19177	26.5		RIG Reconfiguration
73			Adera Solar (IRG242)	21RIG19461	20		RIG Reconfiguration
74			Antelope Big Sky Ranch (IRG294)	21RIG19462	20		RIG Reconfiguration
75			Big Sky Solar 1 DSR 1 (IRG323)	21RIG19463	50		RIG Reconfiguration
76			Big Sky Summer (IRG296)	21RIG19464	20		RIG Reconfiguration
77			Citizen B (IRG249)	21RIG19465	5		RIG Reconfiguration
78			Elevation C (IRG298)	21RIG19466	40		RIG Reconfiguration
79			Hayworth Solar Farm (IRG208)	21RIG19467	26.7		RIG Reconfiguration
80			Palmdale East (IRG199)	21RIG19469	10		RIG Reconfiguration
81			Redcrest Solar Farm (IRG206)	21RIG19470	16.66		RIG Reconfiguration
82			Solverde (IRG324)	21RIG19471	85		RIG Reconfiguration
83			Woodmere Solar Farm (IRG209)	21RIG19473	15		RIG Reconfiguration
84			SolarGen2-Alhambra	21RIG19479	50		RIG Reconfiguration
85			SolarGen2-Arkansas	21RIG19480	50		RIG Reconfiguration
86			SolarGen2-Sonora Main	21RIG19481	50		RIG Reconfiguration
87			Chevron McKittrick (IRG033)	21RIG19528	10		RIG Reconfiguration
88			Blast (IRG077)	21RIG19562	49		RIG Reconfiguration
89			Mountwind (IDG031)	21RIG19563	44.4		RIG Reconfiguration
90			Escondido Energy Center [IDG007A]	21RIG19574	48.7		RIG Reconfiguration
91			Wellhead Panoche [IDG024]	21RIG19575	49.97		RIG Reconfiguration
92			Fresno Cogen Partners Cogen	21RIG19577	47.21		RIG Reconfiguration
93			Delano Energy Center	21RIG19578	49		RIG Reconfiguration
94			Chula Vista Energy Center	21RIG19579	37.2		RIG Reconfiguration
95			Copper Mountain 10 BAL-003	21RIG19582	10		RIG Reconfiguration
96			COLLIERVILLE HYDRO UNIT 1 & 2 AGG	21RIG19618	253		RIG Reconfiguration
97			MSOLAR 2 SOLAR1 BAL 003	21RIG19635	165		RIG Reconfiguration
98			YWA ARIG Reconfiguration	21RIG20001	55		RIG Reconfiguration

Full Network Model Scope for FNM DB22M1

(Production 1/14/2022)

II. Transmission Projects

No	PTO	RIMS ID	Project Name	Project Key
1	PGAE	19TRANS10133	Reedley Sub: Replace Bk 2	ET4224
2	PGAE	19TRANS8496	Proxima Solar	ET3935
3	PGAE	19TRANS8496	Proxima Solar	ET4248
4	PGAE	19TRANS8516	Replace Pit PH #1 REPL 230KV Banks 1 & 2	ET3945
5	PGAE	19TRANS8516	Replace Pit PH #1 REPL 230KV Banks 1 & 2	ET3946
6	PGAE	19TRANS8816	Cascade Energy Storage (Q1272)	ET4040
7	PGAE	19TRANS8816	Cascade Energy Storage (Q1272)	ET4041
8	PGAE	19TRANS8816	Cascade Energy Storage (Q1272)	ET4042
9	PGAE	20TRANS12525	Replace Vaca-Dixon Bank 5	ET4364
10	PGAE	21TRANS18870	US Windpower 60kV Reconductor	ET4690
11	PGAE	21TRANS18965	Carbona Substation Rebuild	ET4702
12	PGAE	21TRANS20181	Tulare Lake - Replace Bank 1	ET4804
13	PGAE	21TRANS20193	Caribou #2 and Caribou -Plumas Jct Rebuild	ET4805
14	PGAE	21TRANS20193	Caribou #2 and Caribou -Plumas Jct Rebuild	ET4806
15	PGAE	21TRANS20296	North Bundle N-22	ET4835
16	PGAE	21TRANS20296	North Bundle N-22	ET4836
17	SCE	15TRANS874077	Upgrade Eldorado-Lugo-Mohave 500 kV T/L Series Cap and Terminal Equipment (Multiple Locations)	ET4661
18	SCE	16TRANS6316	Q576 - Blythe Mesa Solar Project (TOT446)	ET3740
19	SCE	20TRANS14106	SCE Centralized Remedial Action Scheme (CRAS)	ET4483
20	SCE	20TRANS14106	SCE Centralized Remedial Action Scheme (CRAS)	ET4484
21	SCE	20TRANS14106	SCE Centralized Remedial Action Scheme (CRAS)	ET4515
22	SCE	20TRANS14106	SCE Centralized Remedial Action Scheme (CRAS)	ET4516
23	SCE	20TRANS14106	SCE Centralized Remedial Action Scheme (CRAS)	ET4518
24	SCE	20TRANS14476	Rexford Solar Farm - TOT896/Q1516	ET4498
25	SCE	20TRANS14476	Rexford Solar Farm - TOT896/Q1516	ET4499
26	SCE	20TRANS14476	Rexford Solar Farm - TOT896/Q1516	ET4809
27	SCE	20TRANS14484	Bellefield Solar Farm - TOT892/Q1510	ET4513
28	SCE	20TRANS14484	Bellefield Solar Farm - TOT892/Q1510	ET4514
29	SCE	21TRANS19091	Bishop RAS - Lyster Generation Addition	ET4709
30	SDGE	14TRANS835220	TL674A Loop-In (Del Mar-North City West) & TL666D (Del Mar-Del Mar Tap)	ET2590
31	SDGE	15TRANS874132	Q789 RUGGED SOLAR FARM Generation interconnection	ET3001
32	SDGE	21TRANS19645	TL13810C FNM model Correction	ET4784

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III. EIM/ RC Projects

No	Entity	Project Name	Project Key
1	AESO_RC	Substation\Load - Substation GIS coordinates as requested	21EMS19818
2	AESO_RC	Transmission Line - Transmission lines GIS coordinates as requested	21EMS19924
3	AVA_BA	- ICCP mapping to AVA CIM model	21EMS20116
4	AVA_BA	- AVA CIM XML model - includes Line MRID corrections previously coordinated via email	21EMS20117
5	AVRN_BA	- Template including both locations as Bakeoven is (Feeders 1-4, XFMR 1) and Daybreak is (Feeders 5,6 XFMR 1, 7-12 XFMR 2)	21EMS19988
6	AVRN_BA	Generator - PSLF Dynamic Model	21EMS19989
7	AVRN_BA	Generator - ICCP for Bakeoven and Daybreak	21EMS19990
8	AVRN_BA	Generator - Single-line switching drawing showing Bakeoven and Daybreak splits.	21EMS19991
9	AVRN_BA	Generator - Single-line drawings for Bakeoven and Daybreak	21EMS19992
10	AVRN_BA	Generator - MVA = 2 x 110 transformers for Bakeoven and Daybreak but not split evenly by location: Bakeoven is (Feeders 1-4, XFMR 1) and Daybreak is (Feeders 5,6 XFMR 1, 7-12 XFMR 2)	21EMS19993
11	AVRN_BA	Generator - Add Bakeoven and Daybreak (Brickoven substation)	21EMS19994
12	AVRN_BA	Generator - Add Bakeoven and Daybreak (Brickoven substation)	21EMS19995
13	AZPS_BA	Transmission Line - Add line lengths	21EMS19656
14	AZPS_BA	Breaker(s)\ Disconnect(s) - Replaced WMT661 fuse with mod	21EMS20026
15	AZPS_BA	Breaker(s)\ Disconnect(s) - Add WMT761, WMT762, WMT763, WMT1161, WMT1162, WMT1163, WMT961, WMT962, WMT963, WMT562, WMT563	21EMS20027
16	AZPS_BA	Breaker(s)\ Disconnect(s) - Remove SGV261F	21EMS20028
17	AZPS_BA	Breaker(s)\ Disconnect(s) - Add SGV261D and SGV262F	21EMS20029
18	AZPS_BA	Breaker(s)\ Disconnect(s) - Replace DKK2146 with DKU2416 (69KV)	21EMS20030
19	AZPS_BA	Breaker(s)\ Disconnect(s) - Replace CHU3325 disc with a mod (69KV)	21EMS20031
20	AZPS_BA	Breaker(s)\ Disconnect(s) - Replace WW954 disc with a mod (500KV)	21EMS20032
21	AZPS_BA	Breaker(s)\ Disconnect(s) - Replace WW1654 disc with a mod (500KV)	21EMS20033
22	AZPS_BA	Substation\Load - Add 34.5KV portion of station	21EMS20034
23	AZPS_BA	Substation\Load - Add 12KV portion of station	21EMS20035
24	AZPS_BA	Breaker(s)\ Disconnect(s) - Add Breaker 352 (500KV)	21EMS20036
25	AZPS_BA	Substation\Load - Add 12KV portion of station	21EMS20037
26	AZPS_BA	Substation\Load - Add 12KV portion of station	21EMS20038
27	AZPS_BA	Substation\Load - Add 12KV portion of station	21EMS20039
28	AZPS_BA	Generator - Add Resource ID's added for several existing solar installations	21EMS20040
29	BANC_BA	Substation\Load - BANC substation English Names	21EMS20118
30	BANC_BA	Transformer - Updated transformer names from KVA1 and KVA2 to KV1A and KV2A.	21EMS20119
31	BANC_BA	Generator - Changed name from Unit4 and Unit5 to Unit5 and Unit6	21EMS20120

Full Network Model Scope for FNM DB22M1

(Production 1/14/2022)

No	Entity	Project Name	Project Key
32	BANC_BA	Transformer - Updated stepVoltageIncrement value	21EMS20121
33	BANC_BA	Transformer - Updated Tranformer type from fix to voltageControl	21EMS20122
34	BANC_BA	Generator - Increased Pmax from 80 to 100 for this unit	21EMS20123
35	BANC_BA	Breaker(s)\ Disconnect(s) - Updated pfixed and qfixed for loads	21EMS20124
36	BANC_BA	Breaker(s)\ Disconnect(s) - Updated Names of UCONS from 4 and 5 to 5 and 6.	21EMS20125
37	BANC_BA	Transmission Line - Updated Line ratings for this line.	21EMS20126
38	BPA	BPA Breaker and Disconnect UCON tagging	21EMS20554
39	BPAT_BA	Transmission Line - Update Item Number 6.23	21EMS19669
40	BPAT_BA	Breaker(s)\ Disconnect(s) - Reconfigured BUS.	21EMS19813
41	BPAT_BA	Breaker(s)\ Disconnect(s) - Added new switches.	21EMS19814
42	BPAT_BA	Breaker(s)\ Disconnect(s) - Changed LINK ABUS_1362_13644 to ABD A1366.	21EMS19815
43	BPAT_BA	Generator - BPA Dynamic generator model mapping	21EMS19816
44	BPAT_BA	Contingency Definition - BPA Contingency List	21EMS19817
45	BPAT_BA	Shunt Cap\Reactor\ SVD ₂ s - Added shunt capacitor G2S3 for future project.	21EMS20315
46	BPAT_BA	Breaker(s)\ Disconnect(s) - Added PCB A1736, DSC A1736 for future project.	21EMS20316
47	BPAT_BA	Breaker(s)\ Disconnect(s) - Added temporary switches to bypass the bus.	21EMS20317
48	BPAT_BA	Breaker(s)\ Disconnect(s) - Fixed LSD B997-->B979	21EMS20318
49	BPAT_BA	Breaker(s)\ Disconnect(s) - Fixed topology to match BPA SCADA.	21EMS20319
50	BPAT_BA	Breaker(s)\ Disconnect(s) - Adde missing DSC 1177	21EMS20320
51	BPAT_BA	Generator - WRW1 wind gen will move from BPA BA to PGE BA. The intertie is on a low side of T1 transformer and the measurment belongs to BPA so T1 is modeled under BLUERIDGE BPA BA.	21EMS20321
52	BPAT_BA	Shunt Cap\Reactor\ SVD ₂ s - Added shunt capacitor G2S3 for future project.	21EMS20358
53	BPAT_BA	Breaker(s)\ Disconnect(s) - Added PCB A1736, DSC A1736 for future project.	21EMS20359
54	BPAT_BA	Breaker(s)\ Disconnect(s) - Added temporary switches to bypass the bus.	21EMS20360
55	BPAT_BA	Breaker(s)\ Disconnect(s) - Fixed LSD B997-->B979	21EMS20361
56	BPAT_BA	Breaker(s)\ Disconnect(s) - Fixed topology to match BPA SCADA.	21EMS20362
57	BPAT_BA	Breaker(s)\ Disconnect(s) - Adde missing DSC 1177	21EMS20363
58	BPAT_BA	Generator - WRW1 wind gen will move from BPA BA to PGE BA. The intertie is on a low side of T1 transformer and the measurment belongs to BPA so T1 is modeled under BLUERIDGE BPA BA.	21EMS20364
59	BPAT_TOP	Transmission Line - Updating Request Number 6.8.1	21EMS19587
60	BPAT_TOP	Adding load MW values and power factors in the static model for conforming load missing in the model	21EMS19762
61	BPAT_TOP	RAS - BPA New RAS ICCP points placeholders	21EMS20253
62	BPAT_TOP	Add 2 new ICCP points for Montegue 2 solar	21EMS20324
63	CHPD_BA	Transmission Line - Update North Wenatchee - Wenatchee #1 rating due to recently found documentation indicating terminal equipment at Wenatchee has lower rating than the conductor	21EMS19584

Full Network Model Scope for FNM DB22M1

(Production 1/14/2022)

No	Entity	Project Name	Project Key
64	CHPD_BA	Substation\Load - RC West requested additional geo clarificaton from previous Hawely Street sub data addition; also requested clarification be submitted as its own RIMS upload with separate template documents. Re-submitting requested clarification along with original Hawley Street submittals so RC's engineers have all the required information.	21EMS19843
65	GCPD_BA	Substation\Load - GB116 was previously used in the GCPD system. GB117 is the correct name of the switch at Randolph. The ICCP point will need to be updated.	21EMS20159
66	GCPD_BA	Substation\Load - The configuration of Burke modeled in HANA is not correct and needs to be adjusted to mimic the attached pdf (Burke Correction). One ICCP point had a typo and needs to be corrected.	21EMS20160
67	HHWP_TOP	Generator - Update Facility Rating for Kirkwood Unit #3	21EMS19874
68	HHWP_TOP	Generator - Update Facility Rating for Kirkwood Unit #2	21EMS19875
69	HHWP_TOP	Transmission Line - Update Facility Ratings for multiple HHWP transmission lines	21EMS19876
70	HHWP_TOP	Transmission Line - Update Facility Ratings for multiple HHWP transmission lines	21EMS19877
71	IID_TOP	RAS - RAS ICCP points for scheduled Path 42 RAS in service date.	21EMS20241
72	IPCO_BA	Transmission Line - New Shapefile for all IPCO network model transmission lines	21EMS19799
73	IPCO_BA	Substation\Load - New Shapefile for all IPCO network model substations	21EMS19800
74	IPCO_BA	- Incremental dynamic data mapping update for IRO-010 Item 6.25	21EMS19878
75	IPCO_BA	Generator Update curve data for MLPR 2 and TWNF G11	21EMS20094
76	IPCO_BA	Substation Load Addition distribution bus expanded with feeder breakers and load	21EMS20095
77	IPCO_BA	Substation Load Addition distribution bus expanded with feeder breakers and load	21EMS20096
78	IPCO_BA	Breaker(s) Disconnect(s) Addition temp switches	21EMS20097
79	IPCO_BA	Substation Load Addition 138 Substation	21EMS20098
80	IPCO_BA	All ICCP Object IDs for IPCO BA FNM	21EMS20099
81	IPCO_BA	CIM export of IPCO BA FNM	21EMS20100
82	LDWP_BA	Contingency Definition - Proposal of EIM contingencies to be added	21EMS19654
83	LDWP_BA	Contingency Definition - Definition of EIM contingencies to be added	21EMS19655
84	LDWP_BA	Transmission Line - Transitional Modeling for VAL-RIN 1 and 2 reconductor	21EMS20127
85	LDWP_BA	"Generator - Eland Solar Project Eland-Barren Ridge Line 1"	21EMS20128
86	LDWP_BA	"Generator - Eland Solar Project Eland-Barren Ridge Line 1"	21EMS20129
87	LDWP_BA	Contingency Definition - Replace SCA Bus Contingencies	21EMS20313
88	MID_TOP	Transmission Line - RC Data Request for GIS transmission line related information. MID provided shape files and completed 6.13 and 6.14 of RC Data Gathering Template Version 8.0	21EMS19921
89	MID_TOP	Transmission Line - RC Data Request for GIS transmission line related information. MID provided shape files and completed 6.13 and 6.14 of RC Data Gathering Template Version 8.0	21EMS19922
90	NEVP_TOP	Adding load MW values and power factors in the static model for conforming load missing in the model	21EMS19767
91	NEVP_TOP	Substation\Load - Remapped SCADA keys for Olinghouse Sub	21EMS20020
92	NEVP_TOP	Substation\Load - Remapped SCADA keys for Cal Sub	21EMS20021

Full Network Model Scope for FNM DB22M1

(Production 1/14/2022)

No	Entity	Project Name	Project Key
93	NEVP_TOP	Breaker(s)\ Disconnect(s) - New breaker and disconnects	21EMS20022
94	NEVP_TOP	Breaker(s)\ Disconnect(s) - New breaker and disconnects	21EMS20023
95	NEVP_TOP	Breaker(s)\ Disconnect(s) - New breaker and disconnects	21EMS20024
96	NEVP_TOP	Breaker(s)\ Disconnect(s) - New breaker and disconnects	21EMS20025
97	NWMT	Add two RAS arming points for Colstrip RAS	21EMS19957
98	NWMT_BA	Generator - Update to include Grant County generation; update for Mystic generation NO point change and metering values - see description of changes doc for full details	21EMS20006
99	NWMT_BA	Substation\Load - Minor substation reconfiguration; updated SOL limits and impedances of several lines; South Butte substation work; Great Falls 230 substation work and line renaming - see description of changes doc for full details	21EMS20007
100	PACW	"Pmax increase for two market only units in PACW: PRAP_2_PACSHARE, from 91 MW to 149 MW WNPM_2_PACSHARE from 115 MW to 187 MW"	21EMS20501
101	PAC_TOP	Breakers/Disconnects - Remove device SB SB-7	21EMS19657
102	PAC_TOP	Breakers/Disconnects - Remove AS 2D629	21EMS19658
103	PAC_TOP	Generator - Update name and remap key for 3G267. Remap key for unit MVAR	21EMS19659
104	PAC_TOP	Substation\Load - Add T942 load measurement	21EMS19660
105	PAC_TOP	Breakers/Disconnects - Add MO 10H339	21EMS19661
106	PAC_TOP	Generator - Remap analog keys for 3 units and 2 loads	21EMS19662
107	PAC_TOP	Transformers - Map XFMR 4 measurements	21EMS19663
108	PAC_TOP	Breakers/Disconnects - Add TR 133I	21EMS19664
109	PAC_TOP	Transmission Lines - Remap Tanner line measurements	21EMS19665
110	PAC_TOP	Substation\Load - Remap LD 1 measurements	21EMS19666
111	PAC_TOP	Transmission Lines - Remove JP1, JP2, JP3, and two branches. Remap line measurements	21EMS19667
112	PAC_TOP	Breakers/Disconnects - Add CB 9G2,CB 9G5, and SW's	21EMS19668
113	PAC_TOP	Substation\Load - Add T2239 and T845 load measurements	21EMS20041
114	PAC_TOP	Substation\Load - Rename Load to LD1	21EMS20042
115	PAC_TOP	Breakers/Disconnects - Remap keys for CS 2G49 and CB 3G99 and Remove JP1	21EMS20043
116	PAC_TOP	Breaker(s)\ Disconnect(s) - Remove 1 device (CURRCRK 345 AS 89-7)	21EMS20044
117	PAC_TOP	Substation\Load - Add 12 devices and 1 branch for new 138kV ring bus	21EMS20045
118	PAC_TOP	Generator - Add new substation and new generation (75 MW)	21EMS20046
119	PAC_TOP	Breaker(s)\ Disconnect(s) - Update name and device type for SW 89-1	21EMS20047
120	PAC_TOP	Breaker(s)\ Disconnect(s) - Remove 1 device (PARISH 138 CB ANGL2)	21EMS20048
121	PAC_TOP	Transmission Line - Remove 1 branch (ANGEL_PARRISH_138_2) and 1 device (ANGEL 138 PARISH DC)	21EMS20049
122	PGE_BA	Substation\Load - Install two new transformers and associated equipment to the Shute station.	21EMS20008
123	PGE_BA	Substation\Load - Remove HLVT_TEMP_G, LS_11666 and LS_11665	21EMS20009
124	PGE_BA	Substation\Load - Rebuild Brookwood to 115kV station, build new Brookwood to Shute 115kV line and Brookwood to St Marys 115kV line	21EMS20010

Full Network Model Scope for FNM DB22M1

(Production 1/14/2022)

No	Entity	Project Name	Project Key
125	PGE_BA	Substation\Load - Remove Mobile load LD_WB3 at SHDN	21EMS20011
126	PGE_BA	Substation\Load - Correct Mobile #6 position at Brightwood station	21EMS20012
127	PGE_BA	Substation\Load - Rebuild Northern station from 57kV to 115kV, remove all 57kV equipments except Mobile 2	21EMS20013
128	PGE_BA	Substation\Load - Remove the Mobile load WBR2 in SWNI station	21EMS20014
129	PGE_BA	RAS - RAS screenshot	21EMS20015
130	PGE_BA	- List of ICCP points mapping	21EMS20016
131	PGE_BA	- Contingency defination update	21EMS20017
132	PGE_BA	- Model Difference reoport	21EMS20018
133	PGE_BA	- Model Updates for PGE: CIMxml model file	21EMS20019
134	PGE_BA	RAS - RAS screenshot	21EMS20598
135	PNM	Model LUNA market only shares for PNM (LUNA_3_PNM and LUNA_3_SC)	21EMS20717
136	PNM	Arroyo Solar Pmax Updates	21EMS20729
137	PNM_BA	Substation\Load - Added ICCP Object name W075\$Embudo115_19062_RE_V	21EMS19647
138	PNM_BA	Substation\Load - Added ICCP Object name W075\$Embudo115_19062_RE_MVAR	21EMS19648
139	PNM_BA	Substation\Load - Added ICCP Object name W075\$Embudo115_19062_RE_MW	21EMS19649
140	PNM_BA	Substation\Load - Removed ICCP Object name W075\$Embudo115_Tramway_Q	21EMS19650
141	PNM_BA	Substation\Load - Removed ICCP Object name W075\$Embudo115_Tramway_P	21EMS19651
142	PNM_BA	-	21EMS19996
143	PNM_BA	-	21EMS19997
144	PNM_BA	-	21EMS19998
145	PNM_BA	- New breakers, switches and Load at exist. Station	21EMS19999
146	PNM_BA	- New breakers, switches and Load at exist. Station	21EMS20000
147	PNM_BA	- Zip file containing the shape file for the Arroyo Solar Site	21EMS20050
148	PNM_BA	- Zip file containing the shape file for the Pintado Switching Station	21EMS20051
149	PNM_BA	Contingency Definition - list the breaker that will be tripped in the event of a contingency	21EMS20052
150	PNM_BA	Transformer - Add Transformer	21EMS20053
151	PNM_BA	Generator - Add Arroyo Battery	21EMS20054
152	PNM_BA	Generator - Add Arroyo Solar	21EMS20055
153	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 89B1	21EMS20056
154	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 89F1	21EMS20057
155	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 89M1	21EMS20058
156	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 89T1	21EMS20059
157	PNM_BA	Breaker(s)\ Disconnect(s) - Add BKR 52B1	21EMS20060
158	PNM_BA	Breaker(s)\ Disconnect(s) - Add BKR 52F1	21EMS20061

Full Network Model Scope for FNM DB22M1

(Production 1/14/2022)

No	Entity	Project Name	Project Key
159	PNM_BA	Breaker(s)\ Disconnect(s) - Add BKR 52U1	21EMS20062
160	PNM_BA	Breaker(s)\ Disconnect(s) - Add Psuedo SW3	21EMS20063
161	PNM_BA	Breaker(s)\ Disconnect(s) - Add Psuedo SW2	21EMS20064
162	PNM_BA	Breaker(s)\ Disconnect(s) - Add Psuedo SW1	21EMS20065
163	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 02485	21EMS20066
164	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 02483	21EMS20067
165	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 02481	21EMS20068
166	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 01381	21EMS20069
167	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 00283	21EMS20070
168	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 03585	21EMS20071
169	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 03581	21EMS20072
170	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 03583	21EMS20073
171	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 06885	21EMS20074
172	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 06883	21EMS20075
173	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 06881	21EMS20076
174	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 07983	21EMS20077
175	PNM_BA	Breaker(s)\ Disconnect(s) - Add MOD 09081	21EMS20078
176	PNM_BA	Breaker(s)\ Disconnect(s) - Add BKR 01382	21EMS20079
177	PNM_BA	Breaker(s)\ Disconnect(s) - Add BKR 06882	21EMS20080
178	PNM_BA	Breaker(s)\ Disconnect(s) - Add BKR 07982	21EMS20081
179	PSEI_BA	Transmission Line - Updating line segments GUI	21EMS19585
180	PSEI_BA	Breaker(s)\ Disconnect(s) - Updating line segments GUI	21EMS19586
181	PSEI_BA	Transmission Line - Requested shape file re-submission.	21EMS19864
182	PSEI_BA	Transmission Line - Line Segment with wrong name in WebOMS	21EMS20005
183	SNPD_TOP	Substation\Load - Reschedule in-service date of Twin City to 12/22/2021 from 10/21/2021	21EMS19923
184	SPP_RC	RAS -	21EMS17931
185	SPP_RC	Substation\Load - Creation of baseline GIS data	21EMS19803
186	SPP_RC	Transmission Line - Creation of baseline GIS data	21EMS19804
187	SPP_RC	update RUSH CREEK "RSCK" station model to match most current SPP model and add the three missing stations	21EMS20509
188	SPP_RC	Update Pmin of the DC unit at SYDNEY\$ in WACM to -200 per the wapa cim file	21EMS20664
189	SPP_RC	RAS - RAS Definition Update	21EMS20728
190	SRP_BA	Substation\Load - Removed temporary switch	21EMS19981
191	SRP_BA	Substation\Load - Removed temporary switches	21EMS19982
192	SRP_BA	Breaker(s)\ Disconnect(s) - Added temporary switch (Open Jumper)	21EMS19983

Full Network Model Scope for FNM DB22M1

(Production 1/14/2022)

No	Entity	Project Name	Project Key
193	SRP_BA	Breaker(s)\ Disconnect(s) - Updated status measurements to breakers and disconnects	21EMS19984
194	SRP_BA	Substation\Load - Added status measurements to breakers and disconnects	21EMS19985
195	SRP_BA	Breaker(s)\ Disconnect(s) - Added breaker 352 and switches 351/353	21EMS19986
196	SRP_BA	Contingency Definition - Added contingency definition	21EMS20620
197	TEP	Implement the detailed TEPC EIM CIM xml model in Production, includes equipment RFID changes	21EMS18639
198	TEP	CATRON, GREENLEE, SPRNGRVL	21EMS20497
199	TPWR_BA	Substation\Load - Substation kmz file to provide line GIS information	21EMS19652
200	TPWR_BA	Transmission Line - Transmission line kmz file to provide line GIS information	21EMS19653
201	TPWR_BA	Substation\Load - Substation data for GIS mapping	21EMS19865
202	TPWR_BA	Substation\Load - Substation kmz file to provide GIS information	21EMS19866
203	TPWR_BA	Transmission Line - Transmission line data for GIS mapping	21EMS19867
204	TPWR_BA	Transmission Line - Transmission line kmz file to provide GIS information	21EMS19868