

**FNM Scope for FNM 21M11 DB109**  
(Production Week of 11/15/2021)

*Revision History – Final Scope Due by 9/9/2021*

Effective Date	Version	Description
9/9/2021	1.0	Final scope by due date. The scope is considered finalized without any addendum attached.

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### I. NRI Projects

No	PTO	Resource ID	Project Name	Project Key
1	SCE		Heber South	21DYN18677
2	SCE		Arlington Solar Unit 1	21GEN19167
3	SCE	CHANGL_2_TS5SR1	Tulare Solar 5	21GEN19201
4	SCE		EdSan 2 Sanborn 3	21NGR18855
5	SCE		EdSan 2 Edwards 1A	21NGR18856
6	SDGE		EnerSmart Chula Vista 1	21NGR18693
7	SDGE		EnerSmart Chula Vista 2	21NGR18694
8	SDGE	VLCNTR_6_VCEBT2	Valley Center Energy Storage PMAX	21NGR19051
9	NA		Panoche Valley Solar (IRG272)	21RIG17977
10	NA		Wistaria (IRG390)	21RIG17981
11	NA		Ormond Beach 1 (ORMOND)	21RIG18732
12	NA		Ormond Beach 2 (IRG279)	21RIG18733
13	NA		Mariposa Energy Project (IRG041)	21RIG18787
14	NA		Shiloh; IDG026B; BAL-003_Shiloh RIG	21RIG18820
15	NA		Tule; IRG347; BAL-003_Tule RIG	21RIG18821
16	NA		Manzana; IRG042A; BAL-003_Manzana RIG R2	21RIG18823
17	NA		Topaz Solar (IRG085)	21RIG18828
18	NA		Sunset_2_Units Rig Reconfiguration 2021	21RIG18974
19	NA	VERNON_6_MALBRG	VERNON_6_MALBRG;VERNON_6_GONZL1;VERNON_6_GONZL2	21RIG19048
20	NA		Western Antelope Dry Ranch (IRG147)	21RIG19066
21	NA		Mt. Signal [IRG125]	21RIG19067
22	NA	PGCC_1_PDRP41	PGCC_1_PDRP41	21RIG19108
23	NA	PGSB_1_PDRP97	PGSB_1_PDRP97	21RIG19109
24	NA	PGKN_2_PDRP46	PGKN_2_PDRP46	21RIG19110
25	NA		Pio Pico (IRG292)	21RIG19176

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### II. Transmission Projects

No	PTO	RIMS ID	Project Name	Project Key
1	PGAE	14TRANS788304	East Shore-Oakland J 115 kV Line Reconductoring Project	ET2408
2	PGAE	18TRANS7368	Caribou #2 Grays Flat to Spanish Creek	ET4271
3	PGAE	19TRANS10134	Drum-Rio Oso 115kV Reconductor	ET4225
4	PGAE	19TRANS10134	Drum-Rio Oso 115kV Reconductor	ET4476
5	PGAE	19TRANS9848	Valley Springs Substation: Install 60/12 kV Bank	ET4219
6	PGAE	19TRANS9848	Valley Springs Substation: Install 60/12 kV Bank	ET4220
7	PGAE	19TRANS9848	Valley Springs Substation: Install 60/12 kV Bank	ET4308
8	PGAE	20TRANS14444	Trinity-Cottonwood 115kV NERC	ET4495
9	PGAE	21TRANS15398	Plano Storage Generation Interconnection (Q1540) Project	ET4580
10	PGAE	21TRANS19516	2021 Gen Removals - Coalinga Cogeneration (COLGA1_6_SHELLW)	ET4748
11	PGAE	21TRANS19517	2021 Gen Removals - Puerta Solar Center (fka: Gates Peaker) (GATES_6_PL1X2)	ET4749
12	PGAE	21TRANS19518	2021 Gen Removals - Sargent Canyon Cogeneration Facility (SARGNT_2_UNIT)	ET4750
13	PGAE	21TRANS19519	2021 Gen Removals - PGE San Francisco State Fuel Cell (DALYCT_1_FCELL)	ET4751
14	PGAE	21TRANS19520	2021 Gen Removals - PGE CSUEB Hayward Fuel Cell (CASTVL_2_FCELL)	ET4752
15	PGAE	21TRANS19521	2021 Gen Removals - Burney Mountain Power (MTNPWR_7_BURNEY)	ET4753
16	PGAE	21TRANS19522	2021 Gen Removals - Coalinga Cogeneration (COLGA1_6_SHELLW)	ET4754
17	PGAE	21TRANS19523	2021 Gen Removals - Puerta Solar Center (fka: Gates Peaker) (GATES_6_PL1X2)	ET4755
18	PGAE	21TRANS19524	2021 Gen Removals - Sargent Canyon Cogeneration Facility (SARGNT_2_UNIT)	ET4756
19	PGAE	21TRANS19527	2021 Gen Removals - Burney Mountain Power (MTNPWR_7_BURNEY)	ET4759
20	PGAE	21TRANS19531	Lodi Replacement of 60 kV Circuit Breakers 12, 22,32, 42, 82 & new (52)	ET4760
21	PGAE	21TRANS19531	Lodi Replacement of 60 kV Circuit Breakers 12, 22,32, 42, 82 & new (52)	ET4761
22	SCE	18TRANS8287	Colorado-Delaney 500kV TL FERC 1000	ET3882
23	SCE	18TRANS8287	Colorado-Delaney 500kV TL FERC 1000	ET3884
24	SCE	18TRANS8287	Colorado-Delaney 500kV TL FERC 1000	ET4708
25	SCE	20TRANS14106	SCE Centralized Remedial Action Scheme (CRAS)	ET4483
26	SCE	20TRANS14106	SCE Centralized Remedial Action Scheme (CRAS)	ET4484
27	SCE	20TRANS14106	SCE Centralized Remedial Action Scheme (CRAS)	ET4515
28	SCE	20TRANS14106	SCE Centralized Remedial Action Scheme (CRAS)	ET4516
29	SCE	20TRANS14106	SCE Centralized Remedial Action Scheme (CRAS)	ET4518
30	SCE	20TRANS14481	Crimson Solar Farm-TOT764/Q1192	ET4508
31	SCE	20TRANS14481	Crimson Solar Farm-TOT764/Q1192	ET4509
32	SCE	21TRANS18964	Victor Caldwell ICCP Object Modification	ET4700
33	SCE	21TRANS18964	Victor Caldwell ICCP Object Modification	ET4701
34	SCE	21TRANS19091	Bishop RAS - Lyster Generation Addition	ET4709

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No	PTO	RIMS ID	Project Name	Project Key
35	SCE	21TRANS19092	Obsolete SJVRAS	ET4710
36	SDGE	15TRANS874029	Artesian 230kV Expansion With 69kV Upgrades	ET2906
37	SDGE	15TRANS874029	Artesian 230kV Expansion With 69kV Upgrades	ET3173
38	SDGE	18TRANS8064	Santa Ysabel Rebuild	ET3844
39	SDGE	19TRANS9742	Q1175 LA CONTE ENERGY STORAGE Generation Interconnection	ET4188
40	SDGE	21TRANS18142	Q1048 Escondido Energy Center 2	ET4649
41	SDGE	21TRANS18143	Q1045 Chula Vista Energy Center 2	ET4650
42	SDGE	21TRANS18147	Q1047 North Johnson Energy Center	ET4654

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**III. EIM/ RC Projects**

No	Entity	Project Name	Project Key
1	AESO_RC	Substation\Load - AESO Substation Names Pending English	21EMS19439
2	AVRN_BA	Generator - XFMR MVA = 165	21EMS18699
3	AVRN_BA	Generator - RC Data Gathering Template for Lund Hill	21EMS18700
4	AVRN_BA	Generator - Investigating if WECC or BPA can provide to us.	21EMS18701
5	AVRN_BA	Generator - ICCP objects for Lund Hill	21EMS18702
6	AVRN_BA	Generator - Lund Hill Single Line	21EMS18703
7	AVRN_BA	Generator - Add Lund Hill Solar	21EMS18704
8	AVRN_BA	Generator - Add Lund Hill Solar	21EMS18705
9	AVRN_BA	Generator - RC Data Gathering Template for Montague Solar	21EMS18878
10	AVRN_BA	Generator - Investigating when BPA can provide to us.	21EMS18879
11	AVRN_BA	Generator - ICCP objects for Montague Solar	21EMS18880
12	AVRN_BA	Generator - Montague Solar Single Line	21EMS18881
13	AVRN_BA	Generator - Transformer: 110MVA	21EMS18882
14	AVRN_BA	Generator - Add Montague Solar	21EMS18883
15	AVRN_BA	Generator - Add Montague Solar	21EMS18884
16	AVRN_BA	Generator - RC Data Gathering Template for Golden Hills	21EMS19249
17	AVRN_BA	Generator - Golden Hills Wind Dynamic Model	21EMS19250
18	AVRN_BA	Generator - ICCP objects for Golden Hills	21EMS19251
19	AVRN_BA	Generator - Single Line Drawing	21EMS19252
20	AVRN_BA	Generator - Transformer: 110MVA	21EMS19253
21	AVRN_BA	Generator - Add Golden Hills Wind	21EMS19254
22	AVRN_BA	Generator - Add Golden Hills Wind	21EMS19255
23	AZPS_BA	Contingency Definition - Addition of contingency: AP1 YU-PKX 161-69 BK X2	21EMS19321
24	AZPS_BA	Contingency Definition - Update of contingencies: AP1 VE-YP_1 230, AP2 NV-DGS+YP-WW 500	21EMS19322

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25	AZPS_BA	Contingency Definition - Addition of contingency: AP1 WL 230-69 BK 10	21EMS19323
26	AZPS_BA	Contingency Definition - Update of contingencies: AP1 RUDD-WT_1 230, AP1 WP-WT_1 230, AP1 WT 230-69 BK 12	21EMS19324
27	AZPS_BA	Contingency Definition - Addition/Update of contingencies: AP2 NV-DGS+YP-WW 500, AP1 WW-RY_1 230	21EMS19325
28	AZPS_BA	Contingency Definition - Update of contingency: AP1 WP-WT_1 230	21EMS19326
29	AZPS_BA	Contingency Definition - Update of contingency: AP1 CQ-VE_1 230, AP1 VE-YP_1 230, AP1 VE 230-69 BK 3, AP1 VE 230-69 BK 10	21EMS19327
30	AZPS_BA	Contingency Definition - Addition of contingency: AP1 DLN-SNV_1 500, AP1 MRG-SNV_1 500, AP1 SNAP1 SNV 500-230 BK 7, AP1 SNV 500-230 BK 7, AP1 HAPX-SNV_1 230	21EMS19328
31	AZPS_BA	Contingency Definition - Addition of contingency: AP1 SLFX 500-69_1 BK 1	21EMS19329
32	AZPS_BA	Contingency Definition - Addition of contingency: AP1 SCW-PP_1 230	21EMS19330
33	AZPS_BA	Contingency Definition - Addition of contingency: AP1 KNX-SR_1 230	21EMS19331
34	AZPS_BA	Contingency Definition - Addition/Update of contingencies: AP1 SG-TORTOLIT_1 500, AP1 SG-TORTOLIT_2 500, AP1 ED_5WC-SG_1 115, AP1 SG 230-115 BK 10	21EMS19332
35	AZPS_BA	Contingency Definition - Addition of contingency: AP1 WW-RY_1 230	21EMS19333
36	AZPS_BA	Contingency Definition - Addition/Update of contingencies: AP1 PP2N-PINPK_1 230, AP1 SCW-PP_1 230, AP1 PP2N-PINPK_2 230	21EMS19334
37	AZPS_BA	Contingency Definition - Addition/Update of contingencies: AP1 FDM-PND_1 230, AP1 GB 230-69 BK 8, AP1 GB 230-69 BK 12	21EMS19335
38	AZPS_BA	Contingency Definition - Addition/Update of contingencies: AP1 FDM-PV_1 230, AP1 PV-RUDD_1 230, AP1 PV 230-69 BK 11	21EMS19336
39	AZPS_BA	Contingency Definition - Addition of contingency: AP1 KYX-OC_1 230	21EMS19337
40	AZPS_BA	Contingency Definition - Update of contingencies: AP1 NGILAA 500-69 BK 1, AP1 NGILAA 500-69 BK 4	21EMS19338
41	AZPS_BA	Contingency Definition - Update of contingencies: AP1 CRYSTAL-NV_1 500, AP2 MK-CDR+NV-DGS 500	21EMS19339
42	AZPS_BA	Contingency Definition - Addition of contingency: AP1 AM-MU_1 115	21EMS19340
43	AZPS_BA	Contingency Definition - Addition of contingency: AP1 MRG-SNV_1 500	21EMS19341
44	AZPS_BA	Contingency Definition - Update of contingency: AP2 MK-CDR+NV-DGS 500	21EMS19342
45	AZPS_BA	Contingency Definition - Addition/Update of contingencies: AP1 CG-MGN_1 230, AP1 MGN 230-69 BK 9	21EMS19343
46	AZPS_BA	Contingency Definition - Addition of contingency: AP1 AGCX-HDW_1 500	21EMS19344
47	AZPS_BA	Contingency Definition - Addition of contingencies: AP1 GB 230-69 BK 8, AP1 GB 230-69 BK 12	21EMS19345
48	AZPS_BA	Contingency Definition - Addition of contingency: AP1 GPKX-GV 230-69 BK 11	21EMS19346
49	AZPS_BA	Contingency Definition - Addition/Update of contingencies: AP1 FDM-LBX_1 230, AP1 FDM-PND_1 230, AP1 FDM-PV_1 230, AP1 FDM 230-69 BK 3	21EMS19347

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50	AZPS_BA	Contingency Definition - Addition of contingency: AP1 FC-PLLX_1 230	21EMS19348
51	AZPS_BA	Contingency Definition - Addition of contingencies: AP1 ES 230-69 BK 12, AP1 ES 230-69 BK 4	21EMS19349
52	AZPS_BA	Contingency Definition - Addition/Update of contingencies: AP1 ED_5WC-SG_1 115, AP1 ED4-ED5_1 115	21EMS19350
53	AZPS_BA	Contingency Definition - Addition of contingencies: AP1 ED4-ED2_1 115, AP1 ED4-ED5_1 115	21EMS19351
54	AZPS_BA	Contingency Definition - Addition of contingency: AP1 ED4-ED2_1 115	21EMS19352
55	AZPS_BA	Contingency Definition - Addition of contingency: AP1 LBX-EE-PAX_1 230	21EMS19353
56	AZPS_BA	Contingency Definition - Update of contingencies: AP2 MK-CDR+NV-DGS 500, AP2 NV-DGS+YP-WW 500	21EMS19354
57	AZPS_BA	Contingency Definition - Addition of contingency: AP1 DLN-SNV_1 500	21EMS19355
58	BANC_BA	Transmission Line - TheGLD_LAK_230 is missing in EIM BAAOP application (CIDI Ticket 00239510).	21EMS19235
59	BANC_BA	Transformer - Addition of new transformers to connect existing station to new generators.	21EMS19417
60	BANC_BA	Breaker(s)\ Disconnect(s) - Addition of new breakers to connect existing station to new generators.	21EMS19418
61	BANC_BA	Generator - Addition of new 2 generators.	21EMS19419
62	BANC_BA	Transformer - Addition of new transformers at U450.	21EMS19420
63	BANC_BA	Transmission Line - Addition of new transmission lines to connect LLL and LLN to U450.	21EMS19421
64	BANC_BA	Breaker(s)\ Disconnect(s) - Addition of new breakers at U450.	21EMS19422
65	BANC_BA	Substation\Load - Addition of new substation and loads to the model.	21EMS19423
66	BANC_BA	Transmission Line - Removal of transmission lines that connected these substations to NCY.	21EMS19424
67	BANC_BA	Breaker(s)\ Disconnect(s) - Removal of disconnects that connected these substations to NCY.	21EMS19425
68	BANC_BA	Substation\Load - Removal of NCY substation from the model.	21EMS19426
69	BCHA_RC	ICCP in E2T 57137	21EMS19188
70	BCHA_RC	Substation\Load - Added	21EMS19391
71	BCHA_RC	Substation\Load - Added	21EMS19392
72	BCHA_RC	Transformer - Added	21EMS19393
73	BCHA_RC	Transmission Line - Added	21EMS19394
74	BCHA_RC	Transmission Line - Added	21EMS19395
75	BCHA_RC	Equipment Type - Updated ICCP	21EMS19396
76	BPA	Default breaker status correction at BROOKING substation	21EMS19168
77	BPA	Frederickson and Nine Canyon Wind JOU	21EMS19576
78	BPAT_BA	Substation\Load - New Tap station inserted in to BLRG_MORF_1230 line.	21EMS19434

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79	BPAT_BA	Substation\Load - SACHEEN 230kV bus is being upgraded from disconnects to PCBs causing Bell - Boundary #1 230kV line BELL_BOUN_1230 to split in to two lines BOUN_SACH_1230 and SACH_BELL_1230.	21EMS19435
80	BPAT_BA	RAS - Local Boundary RAS has changed due to Bell - boundary #1 230kV line split.	21EMS19436
81	BPAT_BA	Generator - BPA Dynamic generator model mapping	21EMS19437
82	BPAT_BA	Contingency Definition - BPA Contingency List	21EMS19438
83	BPAT_TOP	Transmission Line - Updating Request Number 6.23	21EMS19018
84	BPAT_TOP	Transmission Line - Updating Request Number 6.23	21EMS19268
85	CEN_BA	- Update Pmax of some Generating Units	21EMS18794
86	CEN_BA	Transmission Line - Onelines diagrams for 161 KV GRID Changes	21EMS19080
87	CEN_BA	- Update Pmax of some Generating Units	21EMS19081
88	CEN_BA	Generator - Addition of Substation	21EMS19190
89	CEN_BA	Generator - Addition of Substation	21EMS19191
90	CEN_BA	Generator - Addition of Substation	21EMS19192
91	IPCO_BA	Transmission Line Added BOBN STAT1 BOBN STAT2 and BOBN OCHD lines to network model for loadshed modeling effort	21EMS19397
92	IPCO_BA	Transmission Line New modeling to add WESR QUTZ line to improve network model accuracy	21EMS19398
93	IPCO_BA	Transmission Line New modeling to add ONTO EMET line to improve network model accuracy Note CTP name should actually be COTP This will be corrected with next network model submittal	21EMS19399
94	IPCO_BA	Transmission Line New modeling to add ONTO WESR line to improve network model accuracy	21EMS19400
95	IPCO_BA	Expanded network model down to distribution bus and moved equivalent loads down to feeders for more accurate training simulations as part of load shed modeling effort. For ADRN AIKN BKFT BOBN BOIS BUBG CACK CARO CDWL CHUT CMBG CNCK CNCL CSCD DALE DRKE EAGL ELMR EKHN EMET FRMT GFRY GRVE HALY HBND HFWY HILL HOLY HPVY HSTN JPLN JROM KBLY KRMR KUNA LNDN MCAL MDVA MLBA NMPA NWPM OCHD PAUL PNUF POCO PTVY RRSR SRCK STAT STKY TERY THYE USTK VLVU VTRY WILS ZLOG	21EMS19401
96	IPCO_BA	Substation\Load At the request of CAISO updated ConformLoad parameters to fix power factor for CAISO network studies	21EMS19402
97	IPCO_BA	All ICCP Object IDs for IPCO_BA FNM	21EMS19403
98	IPCO_BA	CIM export of IPCO_BA FNM	21EMS19404
99	LDWP_BA	Transmission Line - Update ICCP Mapping	21EMS19430
100	LDWP_BA	Transmission Line - Updated Transmission Ratings for OLV-NR, HSK Bank H, VIC Bank K	21EMS19431
101	NEVP_TOP	Generator - Increasing pMAX for existing GEN (TNG_IPP_GO)	21EMS19317
102	NEVP_TOP	Generator - New 14 MW Geothermal (non-participating)	21EMS19318
103	NEVP_TOP	Substation\Load - New Substation for 14 MW Geothermal	21EMS19319



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104	NWMT_TOP	Substation\Load - Minor equipment removals, renames, additions, and emergency rating updates, Hot Springs Montana 1 Mill Creek Rimrock Belgrade West Custer Auto	21EMS19429
105	PAC_TOP	Substation\Load - New substation	21EMS18999
106	PAC_TOP	Breakers/Disconnects - Remap SCADA keys for MO 2U24 and 25	21EMS19000
107	PAC_TOP	Substation\Load - CAISO please change BA to PACE	21EMS19001
108	PAC_TOP	Breakers/Disconnects - Delete JP1 and MO 120A	21EMS19002
109	PAC_TOP	Breakers/Disconnects - Delete F1042	21EMS19003
110	PAC_TOP	Breakers/Disconnects - Remap 9F13, 1H245, T3710, delete 1H247, 1H249	21EMS19004
111	PAC_TOP	Substation\Load - New substation	21EMS19005
112	PAC_TOP	Breakers/Disconnects - Remap line measurement to 126TH.SO, add 4 devices and two jumpers, update line impedance data for BANGERTE_OQUIRRH_138	21EMS19006
113	PAC_TOP	Transmission Lines - Map WILARDP1_BRIGHAM_46's FROM side measurements	21EMS19007
114	PAC_TOP	Shunt Cap\Reactor\SVDs - Add Cap Bank measurement	21EMS19008
115	PAC_TOP	Transmission Lines - Delete JP1 and 163-BP and JEFFERSI_RIGBY_161 and remap JEFFERSI_RIGBY_161_1's measurement on JEFFERSI side. Remove SCADA measurement on RIGBY 69 45	21EMS19009
116	PAC_TOP	Substation\Load - Delete substation	21EMS19010
117	PAC_TOP	Breakers/Disconnects - Update 172A's normal state to CLOSED	21EMS19011
118	PAC_TOP	Substation\Load - New substation	21EMS19012
119	PAC_TOP	Transmission Lines - Add CAPITOL_NBENCH_46 measurements	21EMS19013
120	PAC_TOP	Substation\Load - CAISO please change BA to PACE	21EMS19014
121	PGE_BA	Generator - Replace Faraday 1-5 with two new units, Faraday 7 and 8	21EMS19297
122	PGE_BA	Generator - Replace Faraday 1-5 with two new units, Faraday 7 and 8	21EMS19298
123	PGE_BA	Substation\Load - Energize the Mobile 2 at Northern station	21EMS19299
124	PGE_BA	Transmission Line - Canyon-Urban 115kV reconductor project, the impedance and ratings change only	21EMS19300
125	PGE_BA	RAS - RAS screenshot	21EMS19301
126	PGE_BA	- list of ICCP points mapping	21EMS19302
127	PGE_BA	- model Difference reoport	21EMS19303
128	PGE_BA	- model Updates for DB80 : CIMxml model file	21EMS19304
129	PNM_BA	Breaker(s)\ Disconnect(s) - Add 23785	21EMS18759
130	PNM_BA	Breaker(s)\ Disconnect(s) - Add Pseudo SW Sandia	21EMS18760

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131	PNM_BA	Breaker(s)\ Disconnect(s) - Add Pseudo SW West Mesa	21EMS18761
132	PNM_BA	Breaker(s)\ Disconnect(s) - Add Pseudo SW 2	21EMS18762
133	PNM_BA	Breaker(s)\ Disconnect(s) - Add Pseudo SW 1	21EMS18763
134	PNM_BA	Breaker(s)\ Disconnect(s) - Add 03185	21EMS18764
135	PNM_BA	Breaker(s)\ Disconnect(s) - Add 00082	21EMS18765
136	PNM_BA	Breaker(s)\ Disconnect(s) - Add 02085	21EMS18766
137	PNM_BA	Breaker(s)\ Disconnect(s) - Add 01085	21EMS18767
138	PNM_BA	Breaker(s)\ Disconnect(s) - Add 22583	21EMS18768
139	PNM_BA	Breaker(s)\ Disconnect(s) - Add 25885	21EMS18769
140	PNM_BA	Breaker(s)\ Disconnect(s) - Add 25881	21EMS18770
141	PNM_BA	Breaker(s)\ Disconnect(s) - Add 22582	21EMS18771
142	PNM_BA	Breaker(s)\ Disconnect(s) - Add 22585	21EMS18772
143	PNM_BA	Breaker(s)\ Disconnect(s) - Add 22581	21EMS18773
144	PNM_BA	Breaker(s)\ Disconnect(s) - Add 24782	21EMS18774
145	PNM_BA	Breaker(s)\ Disconnect(s) - Add 24783	21EMS18775
146	PNM_BA	Breaker(s)\ Disconnect(s) - Add 24781	21EMS18776
147	PNM_BA	Breaker(s)\ Disconnect(s) - Add 21483	21EMS18777
148	PNM_BA	Breaker(s)\ Disconnect(s) - Add 21482	21EMS18778
149	PNM_BA	Breaker(s)\ Disconnect(s) - Add 21481	21EMS18779
150	PNM_BA	Breaker(s)\ Disconnect(s) - Add 18182	21EMS18780
151	PNM_BA	Breaker(s)\ Disconnect(s) - Add 23683	21EMS18781
152	PNM_BA	Breaker(s)\ Disconnect(s) - Add 18181	21EMS18782
153	PNM_BA	Breaker(s)\ Disconnect(s) - Add 23685	21EMS18783
154	PNM_BA	Disconnects - The Aragonne wind generation is expanding to a total of 235 MW. This is already an existing station and a existing model so there are changes in breaker/disconnects impedance , line ratings and the generator PMAX. The generator is psuedo tied to AZPS	21EMS19287
155	PNM_BA	Generator - The Aragonne wind generation is expanding to a total of 235 MW. This is already an existing station and a existing model so there are changes in breaker/disconnects impedance , line ratings and the generator PMAX. The generator is psuedo tied to AZPS	21EMS19288
156	PNM_BA	Generator - Remove Generator - PEGS Gen	21EMS19381
157	PNM_BA	Transformer - Remove XFMR PEGS Gen1	21EMS19382

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158	PNM_BA	Breaker(s)\ Disconnect(s) - Remove Breaker PEG1 Gen OnOff	21EMS19383
159	PNM_BA	Breaker(s)\ Disconnect(s) - Remove Switch 181_PEGS	21EMS19384
160	PNM_BA	Contingency Definition - Remove breaker 282	21EMS19385
161	PNM_BA	Contingency Definition - Remove breaker 382	21EMS19386
162	PNM_BA	Contingency Definition - Add Bkr 43882	21EMS19387
163	PNM_BA	Contingency Definition - Add 48282	21EMS19388
164	PNM_BA	Contingency Definition - Add 32682	21EMS19389
165	PNM_BA	Contingency Definition - Add 40382	21EMS19390
166	PSEI_BA	- ICCP list	21EMS19260
167	PSEI_BA	- full CIM model	21EMS19261
168	SNPD_TOP	Shoofly Install\ Removal - Removal of Paine Field shoofly	21EMS18758
169	SNPD_TOP	Substation\Load - Addition of a new 115kV substation	21EMS19019
170	SNPD_TOP	Substation\Load - Addition of a new 115kV substation	21EMS19262
171	SNPD_TOP	Substation\Load - SNPD Substation English Names for Operators' Communications	21EMS19507
172	SPP_RC	SPP July 2020 CIM Network Model and ICCP	20EMS13295
173	SPP_RC	SPP September 2020 CIM Network Model and ICCP	20EMS13904
174	SPP_RC	RAS - List of SPP RAS per GRC requirement CP-1651.	21EMS15414
175	SPP_RC	- List of SPP contingent elements.	21EMS15415
176	SPP_RC	- SPP October 2020 CIM Network Model	21EMS15514
177	SPP_RC	- SPP November 2020 CIM Network Model	21EMS15515
178	SPP_RC	- SPP December 2020 CIM Network Model	21EMS15560
179	SPP_RC	- SPP January 2021 CIM Network Model	21EMS15561
180	SPP_RC	-	21EMS15562
181	SPP_RC	-	21EMS16540
182	SPP_RC	- SPP May 2021 CIM Network Model	21EMS17930
183	SPP_RC	Shiprock station (SHRWC) model correction	21EMS17942
184	SRP_BA	Transmission Line - Updated measurements on Cooley-Perales line	21EMS19236
185	SRP_BA	Transmission Line - Updated measurements on Howard-Perales line	21EMS19237
186	SRP_BA	Substation\Load - Updated voltage measurements on 69 kV bus	21EMS19238

**FNM Scope for FNM 21M11 DB109**  
(Production Week of 11/15/2021)

187	SRP_BA	Substation\Load - Added measurements onload and disconnecter	21EMS19239
188	SRP_BA	Transformer - Added MOBILE13 transformer to bypass and carry load of transformer bank 2	21EMS19240
189	SRP_BA	Transmission Line - Updated measurements on Aguafria-Bolster line	21EMS19241
190	SRP_BA	Substation\Load - Added measurements for load and disconnecter	21EMS19242
191	SRP_BA	Breaker(s)\ Disconnect(s) - Removed temporary switch (open jumper).	21EMS19243
192	SRP_BA	Transmission Line - Removed Hassayampa-Pinal West 500kV line	21EMS19244
193	SRP_BA	Transmission Line - Added new Hassayampa-Jojoba and Jojoba-Pinal West 500kV lines.	21EMS19245
194	SRP_BA	Breaker(s)\ Disconnect(s) - Added breakers, disconnectors and temporary switches for new lines.	21EMS19246
195	SRP_BA	Synchronous Condenser - Added 7/115kV transformer and moved SVC model to 7 kV bus	21EMS19247
196	SRP_BA	Substation\Load - Updated voltage measurements on 69 kV bus	21EMS19248
197	TEP	Implement the detailed TEPC EIM CIM xml model in Production	21EMS18639
198	TSGT_TOP	Transmission Line - Multiple Ratings updates	21EMS19193
199	WALC	WALC Pinnacle Peak tie to APS model update	21EMS18845
200	WAUC	Update the FTPECK substation to the modeling at W_FTPECK substation in WAUW.	21EMS19511