

FNM Scope for FNM 21M2 DB102
(Production Week of 2/1/2021)

Revision History – Final Scope Due by 11/13/2020

Effective Date	Version	Description
11/13/2020	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	PGAE		Dallas Energy Storage 4	20NGR11658
2	SCE		Athos Power Plant	17AS1810
3	SCE		Athos Power Plant 2	20GEN14046
4	SDGE		Sun Streams Solar 2	15AS883123

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II. Transmission Projects

No	PTO	RIMS ID	Project Name	Project Key
1	SCE	20TRANS14017	Sagebrush 3&4 Solar Generation	ET4470

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III. EIM/ RC Projects

No	Entity	Project Name	Project Key
1	AVA_TOP	Corrections to existing English/Common Name mappings for use in WebOMS. Various equipment types including, Breaker, PowerTransformer, ShuntCompensator, Disconnect.	20EMS14377
2	AVA_TOP	Corrections to existing English/Common Name mappings for use in WebOMS. Various equipment types including, Breaker, PowerTransformer, ShuntCompensator, Disconnect.	20EMS14378
3	AVA_TOP	Corrections to existing English/Common Name mappings for use in WebOMS. Various equipment types including, Breaker, PowerTransformer, ShuntCompensator, Disconnect.	20EMS14379
4	AVA_TOP	Corrections to existing English/Common Name mappings for use in WebOMS. Various equipment types including, Breaker, PowerTransformer, ShuntCompensator, Disconnect.	20EMS14380
5	AVA_TOP	Corrections to existing English/Common Name mappings for use in WebOMS. Various equipment types including, Breaker, PowerTransformer, ShuntCompensator, Disconnect.	20EMS14381
6	AVA_TOP	Corrections to existing English/Common Name mappings for use in WebOMS. Various equipment types including, Breaker, PowerTransformer, ShuntCompensator, Disconnect.	20EMS14382
7	AVA_TOP	Corrections to existing English/Common Name mappings for use in WebOMS. Various equipment types including, Breaker, PowerTransformer, ShuntCompensator, Disconnect.	20EMS14383
8	AZPS_BA	Transmission Line - Updated impedances and ratings on Freedom/Panda line	20EMS14223
9	AZPS_BA	Transmission Line - Updated impedances and ratings Freedom/Liberty line	20EMS14224
10	AZPS_BA	Transmission Line - Updated impedances on Black Gap/Crater line	20EMS14225
11	AZPS_BA	Transmission Line - Updated impedances on Cofee Pot/Ajo line	20EMS14226
12	AZPS_BA	Transmission Line - Updated impedances on Cofee Pot/Why line	20EMS14227
13	AZPS_BA	Transmission Line - Updated impedances on Gila Bend/Thayer line	20EMS14228
14	AZPS_BA	Transmission Line - Updated impedances on Midway/Black Gap line	20EMS14229
15	AZPS_BA	Transmission Line - Updated impedances and ratings on Runway/Broadway line	20EMS14230
16	AZPS_BA	Transmission Line - Update ratings on Runway/Sarival line	20EMS14231
17	AZPS_BA	Transmission Line - Updated impedances on Summit/Drake line	20EMS14232
18	AZPS_BA	Transmission Line - Updated impedances on Thayer/Midway line	20EMS14233
19	AZPS_BA	Transmission Line - Updated impedances and ratings on White Tanks/Broadway line	20EMS14234
20	AZPS_BA	Transformers - Changed XFMR4 A (500KV) resistance to .00246 from .00247	20EMS14235
21	AZPS_BA	Transformers - Changed XFMR4 A (34.5KV) reactance to .07427 from .07428	20EMS14236
22	AZPS_BA	Substation\Load - Added Aux Loads and na switches for CT1/CT2, CT3/CT4, CT5/CT6, CT7/CT8, CT9/CT10	20EMS14237

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No	Entity	Project Name	Project Key
23	AZPS_BA	Breakers/Disconnects - Replaced V2658 with U2658	20EMS14238
24	AZPS_BA	Substation\Load - Dual modeling added in preparation of modifying 230KV station to a ring bus	20EMS14239
25	AZPS_BA	Breakers/Disconnects - Replaced V6499 with U6499	20EMS14240
26	AZPS_BA	Breakers/Disconnects - Replaced V3024 with U3024	20EMS14241
27	AZPS_BA	Transformers - Moved XFMR11 mapings to 230 side	20EMS14242
28	AZPS_BA	Transmission Line - Removed WT-RUN line (Broadway is now between Runway and WhiteTanks	20EMS14243
29	AZPS_BA	Breakers/Disconnects - Renamed RUN to BRD (preserved RDFID)	20EMS14244
30	AZPS_BA	Substation\Load - Dual modeling removed	20EMS14245
31	AZPS_BA	Shunt Cap\Reactor\SVDs - CB3 Added	20EMS14246
32	AZPS_BA	Substation\Load - Added Feeder 6 and load	20EMS14247
33	AZPS_BA	Substation\Load - Removed 12KV portion of substation	20EMS14248
34	AZPS_BA	Transformers - Changed T1A and T2A ratings to 41.7 and 9999	20EMS14249
35	AZPS_BA	Transmission Line - Removed WT-RUN line (Broadway is now between Runway and WhiteTanks	20EMS14250
36	AZPS_BA	Breakers/Disconnects - Renamed WT and T1-WT to BRD and T1-BRD (preserved RDFIDs)	20EMS14251
37	AZPS_BA	Substation\Load - Removed dual modeling from Runway to Broadway and White Tanks	20EMS14252
38	AZPS_BA	Substation\Load - Changed feeder and load names on 12KV side	20EMS14253
39	AZPS_BA	Substation\Load - Removed feeder 1 and load	20EMS14254
40	AZPS_BA	Substation\Load - Added Feeder 25 and load	20EMS14255
41	AZPS_BA	Substation\Load - Renamed station to Cielo Grande Temp during retooling (preserved RDFID)	20EMS14256
42	AZPS_BA	Substation\Load - Added Feeder 12 and load	20EMS14257
43	AZPS_BA	Substation\Load - Renamed Encanto to EncantoTemp during retooling (preserved RDFID)	20EMS14258
44	BPAT_BA	Contingency Definition - Incremental contingency changes from 1145 base list.	20EMS14188
45	BPAT_BA	RAS - Added new RAS scheme "L20_QUENETTC" with new RAS Arming ICCP point.	20EMS14189
46	BPAT_BA	RAS - Added RAS Arming ICCP point	20EMS14190
47	BPAT_BA	Generator - Corrected "OUTBACK" generator location. Moved from CHRST_VL to MILLICAN substation.	20EMS14191
48	BPAT_BA	Generator - Moving generation under BPA BA WILLIS substation to AVRN BA.	20EMS14192
49	BPAT_BA	Shunt Cap\Reactor\SVDs - ADD/REMOVE: R1 replaces R3 & R4	20EMS14193
50	BPAT_BA	Contingency Definition - Incremental contingency changes from 1145 base list.	20EMS14201

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No	Entity	Project Name	Project Key
51	BPAT_BA	RAS - Added new RAS scheme "L20_QUENETTC" with new RAS Arming ICCP point.	20EMS14202
52	BPAT_BA	RAS - Added RAS Arming ICCP point	20EMS14203
53	BPAT_BA	Generator - Corrected "OUTBACK" generator location. Moved from CHRST_VL to MILLICAN substation.	20EMS14204
54	BPAT_BA	Generator - Moving generation under BPA BA WILLIS substation to AVRN BA.	20EMS14205
55	BPAT_BA	Shunt Cap\Reactor\ SVDÀs - ADD/REMOVE: R1 replaces R3 & R4	20EMS14206
56	BPAT_BA	RAS - Updated MVA ratings in the RAS logic.	20EMS14370
57	BPAT_TOP	Transmission Line - Updating Request Number 6.8.1, 6.22, 6.23	20EMS14219
58	CISO_RC	Update Midway-Lapaloma #1 230kV ratings based on TR	20EMS14172
59	DOPD_TOP	FSTR_CR - Update PFixed & QFixed default values for substation loads.	20EMS13747
60	DOPD_TOP	DOUGLAS - Update PFixed & QFixed default values for substation loads.	20EMS13748
61	DOPD_TOP	TERRY - Update PFixed & QFixed default values for substation loads.	20EMS13749
62	DOPD_TOP	MIKE_DON - Update PFixed & QFixed default values for substation loads.	20EMS13750
63	DOPD_TOP	EASTMNT\$ - Update PFixed & QFixed default values for substation loads.	20EMS13751
64	DOPD_TOP	VEEDOL - Update PFixed & QFixed default values for substation loads.	20EMS13752
65	DOPD_TOP	PANGBORN - Update PFixed & QFixed default values for substation loads.	20EMS13753
66	DOPD_TOP	SO_NILE - Update PFixed & QFixed default values for substation loads.	20EMS13754
67	DOPD_TOP	HANNADCP - Update PFixed & QFixed default values for substation loads.	20EMS13755
68	DOPD_TOP	BRAYS - Update PFixed & QFixed default values for substation loads.	20EMS13756
69	DOPD_TOP	ORONDO - Update PFixed & QFixed default values for substation loads.	20EMS13757
70	DOPD_TOP	LONEPIN\$ - Update PFixed & QFixed default values for substation loads.	20EMS13758
71	DOPD_TOP	PALISADS - Update PFixed & QFixed default values for substation loads.	20EMS13759
72	DOPD_TOP	NILLE_BP - Update PFixed & QFixed default values for substation loads.	20EMS13760
73	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14047
74	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14048
75	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14049
76	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14050
77	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14051
78	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14052

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No	Entity	Project Name	Project Key
79	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14053
80	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14054
81	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14055
82	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14056
83	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14057
84	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14058
85	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14059
86	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14060
87	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14061
88	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14062
89	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14063
90	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14064
91	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14065
92	GCPD_BA	Generator - Add Dynamic Generation model	20EMS14066
93	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14282
94	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14283
95	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14284
96	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14285
97	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14286
98	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14287
99	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14288
100	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14289
101	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14290
102	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14291
103	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14292
104	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14293
105	GCPD_TOP	Transmission Line - Line Ratings Correction	20EMS14294
106	IID_BA	Substation\Load - Sngle line diagram for New Generator coming into service	20EMS14169

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No	Entity	Project Name	Project Key
107	IID_BA	Substation\Load - MW and MVAR for New Generator coming into service	20EMS14170
108	IID_BA	Generator - Single line diagram including new Valencia 2 generator.	20EMS14416
109	IID_BA	Generator - PSLF modeling data with Pmax,Pmin,Qmax,Qmin	20EMS14417
110	IID_BA	Generator - Generator Dynamic Data	20EMS14418
111	IID_TOP	Breaker(s)\ Disconnect(s) - IRO-010-6.17 switch and breaker status normally open or normally closed status updated per Chen's request	20EMS14174
112	IPCO_BA	Breaker(s)\ Disconnect(s) - Addition of 203A and 203B breakers.	20EMS14267
113	IPCO_BA	Breaker(s)\ Disconnect(s) - CADA 131H renamed to 131X. New analogs on BKAT-CADA terminal.	20EMS14268
114	IPCO_BA	Transmission Line - Changes to analogs and network model for LCST-CDAL line terminal; formerly LCST-BOBN.	20EMS14269
115	IPCO_BA	Transmission Line - Changes to analogs and network model for BOBN-CDAL line terminal; formerly BOBN-LCST.	20EMS14270
116	IPCO_BA	- All ICCP Object IDs for IPCO_BA FNM.	20EMS14271
117	IPCO_BA	- CIM export of IPCO_BA FNM.	20EMS14272
118	LDWP_BA	Substation\Load - Added missing line disconnect for APEX - HARRY ALLEN 1	20EMS14323
119	LDWP_BA	Substation\Load - Added missing load isolation disconnects for Bank K & L	20EMS14324
120	LDWP_BA	Substation\Load - Added missing load isolation disconnects for Bank K & L	20EMS14325
121	LDWP_BA	Transmission Line - List of line segments to be changed to "Series Compensator" type	20EMS14326
122	NEVP_TOP	Transmission Line - Fixed nodding for LOV-NSC__617 line	20EMS14276
123	NEVP_TOP	Breaker(s)\ Disconnect(s) - Updated Normal Statuses	20EMS14277
124	NEVP_TOP	Breaker(s)\ Disconnect(s) - Updated RTU - New CIM Measurement Names	20EMS14278
125	NWMT_BA	Generator - Updated SGIT Template to remove Colstrip Units 1 & 2	20EMS14146
126	NWMT_TOP	Update phase shifter tap initial values	20EMS14126
127	PAC_TOP	Breakers/Disconnects - Rename and remap MO 133A's SCADA key and rename AS 136A to MO 136A	20EMS14177
128	PAC_TOP	Breakers/Disconnects - Add two MOABs	20EMS14178
129	PAC_TOP	Breakers/Disconnects - Add 7 devices	20EMS14179
130	PAC_TOP	Transmission Lines - Remove GOSHENI_SUGARMIL_161 and map measurements on GOSHENI_SUGARMIL_161_1	20EMS14180
131	PAC_TOP	Substation\Load - Remove substation	20EMS14181
132	PAC_TOP	Breakers/Disconnects - Remove JP1	20EMS14182
133	PAC_TOP	Shunt Cap\Reactor\SVDs - Rename all associated names from BADWATER to BADWATE\$ and add 30 MVAR reactor	20EMS14183

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No	Entity	Project Name	Project Key
134	PAC_TOP	Substation\Load - CAISO please change BA to PACE	20EMS14184
135	PGE_BA	Substation\Load - Instal Mobile 5 and line switch SW 5777 at Horthern station.	20EMS14259
136	PGE_BA	Substation\Load - Build Harborton 230kV yard.	20EMS14260
137	PGE_BA	- List of ICCP points mapping	20EMS14262
138	PGE_BA	- Model Difference reoport	20EMS14263
139	PGE_BA	- Model Updates for DB102: CIMxml model file	20EMS14264
140	PNM	Add ICCP to the GLADSTONE, SPRINGER, BLACKLAK, TAOS, OJOCALIE, HERNANDZ, and RAINSVIL stations	20EMS14429
141	PNM_BA	Substation\Load - Added New Acoma Station Load: 588P Acoma Tap MW; 588Q Acoma Tap MVAR	20EMS14295
142	PNM_BA	Breaker(s)\ Disconnect(s) - Added Breakers and Swtiches: BW-376A-A Disc Sw;BW-376A-B Disc Sw;BW-376A-C Disc Sw58861;58862	20EMS14296
143	PNM_BA	Breaker(s)\ Disconnect(s) - Added New La Morada Switch: Psuedo Spare 2	20EMS14297
144	PNM_BA	Breaker(s)\ Disconnect(s) - Added New Lost Horizon Switch: Psuedo Spare 2	20EMS14298
145	PNM_BA	Substation\Load - Added Petroglyph Load MVAR	20EMS14299
146	PNM_BA	Substation\Load - Added Petroglyph Load MW	20EMS14300
147	PNM_BA	Breaker(s)\ Disconnect(s) - Added 66663	20EMS14301
148	PNM_BA	Breaker(s)\ Disconnect(s) - Added 66662	20EMS14302
149	PNM_BA	Breaker(s)\ Disconnect(s) - Added 66661	20EMS14303
150	PNM_BA	Breaker(s)\ Disconnect(s) - Added 67765	20EMS14304
151	PNM_BA	Breaker(s)\ Disconnect(s) - Added 67761	20EMS14305
152	PNM_BA	Breaker(s)\ Disconnect(s) - Added 67762	20EMS14306
153	PNM_BA	Breaker(s)\ Disconnect(s) - Added 67763	20EMS14307
154	PNM_BA	Breaker(s)\ Disconnect(s) - Added 69963	20EMS14308
155	PNM_BA	Breaker(s)\ Disconnect(s) - Added 65565	20EMS14309
156	PNM_BA	Breaker(s)\ Disconnect(s) - Added 65561	20EMS14310
157	PNM_BA	Breaker(s)\ Disconnect(s) - Added 68863	20EMS14311
158	PNM_BA	Breaker(s)\ Disconnect(s) - Added 68862	20EMS14312
159	PNM_BA	Breaker(s)\ Disconnect(s) - Added 68861	20EMS14313
160	PNM_BA	Breaker(s)\ Disconnect(s) - Added 68865	20EMS14314

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No	Entity	Project Name	Project Key
161	PNM_BA	Breaker(s)\ Disconnect(s) - Added Petg Spare 3	20EMS14315
162	PNM_BA	Breaker(s)\ Disconnect(s) - Added Petg Spare 2	20EMS14316
163	PNM_BA	Breaker(s)\ Disconnect(s) - Added 5261	20EMS14317
164	PSEI_BA	- ICCP list	20EMS14265
165	PSEI_BA	- full CIM model	20EMS14266
166	SNPD_TOP	Generator - Addition of dynamic model of Jackson Unit 4	20EMS13961
167	SNPD_TOP	Generator - Addition of dynamic model of Jackson Unit 3	20EMS13962
168	SNPD_TOP	Generator - Addition of dynamic model of Jackson Unit 2	20EMS13963
169	SNPD_TOP	Generator - Addition of dynamic model of Jackson Unit 1	20EMS13964
170	SNPD_TOP	SNPD ICCP points	20EMS13996
171	SNPD_TOP	Substation\Load - This new ICCP list is intended add missing SNPD SCADA points from what BPA submitted.	20EMS14318
172	SNPD_TOP	Transformer - This new ICCP list is intended add missing SNPD SCADA points from what BPA submitted.	20EMS14319
173	SNPD_TOP	Generator - This new ICCP list is intended add missing SNPD SCADA points from what BPA submitted.	20EMS14320
174	SNPD_TOP	Transmission Line - This new ICCP list is intended add missing SNPD SCADA points from what BPA submitted.	20EMS14321
175	SNPD_TOP	Breaker(s)\ Disconnect(s) - This new ICCP list is intended add missing SNPD SCADA points from what BPA submitted.	20EMS14322
176	SRP	PINPK, PINPKWLC	20EMS14210
177	TPWR_BA	- Response to RC Data Request 6.10: Dynamic Ratings	20EMS14026
178	TPWR_BA	- Facility Ratings	20EMS14028
179	TPWR_BA	- Facility Ratings (Name change: PRAXAIR to LINDE and PRAXIR_T to LINDE_T)	20EMS14375