NEXTera® ENERGY
SEABROOK

December 19, 2014

10 CFR 50.54(f)
Docket No. 50-443
SBK-L-14229

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

Seabrook Station

NextEra Energy Seabrook, LLC Expedited Seismic Evaluation Process Report (CEUS Sites) Related to the Response to NRC Request for Information Pursuant to 10 CFR 50.54(f) Regarding Recommendation 2.1 of the Near-Term Task Force Review of Insights From the Fukushima Dai-ichi Accident

References:

1. NRC Letter, *Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3, and 9.3, of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident*, dated March 12, 2012 (Accession No. ML12073A348)
2. NEI Letter, *Proposed Path Forward for NTTF Recommendation 2.1: Seismic Reevaluations*, dated April 9, 2013, (Accession No. ML13101A379)
3. NRC Letter, *Electric Power Research Institute Final Draft Report XXXXXX, "Seismic Evaluation Guidance: Augmented Approach for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic," as an Acceptable Alternative to the March 12, 2012, Information Request for Seismic Reevaluations*, dated May 7, 2013, (Accession No. ML13106A331)
4. EPRI Report 1025287, *Seismic Evaluation Guidance, Screening, Prioritization and Implementation Details (SPID) for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic*, dated November 2012. (Accession No. ML12333A170)
5. NRC Letter, *Endorsement of EPRI Final Draft Report 1025287, "Seismic Evaluation Guidance,"* dated February 15, 2013, (Accession No. ML12319A074)
6. NRC Letter, *Supplemental Information Related to Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Seismic Hazard Reevaluations for Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-Ichi Accident,* dated February 20, 2014. (Accession No. ML14030A046)

A010
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7. NextEra Energy Seabrook letter SBK-L-14052, *NextEra Energy Seabrook LLC Seismic Hazard and Screening Report (CEUS Sites) Response to NRC Request for Information Pursuant to 10 CFR 50.54(f) Regarding Recommendation 2.1 of the Near-Term Task Force Review of Insights From the Fukushima Dai-Ichi Accident,* dated March 27, 2014. (Accession No. ML14092A413)

On March 12, 2012, the Nuclear Regulatory Commission (NRC) issued Reference 1 to all power reactor licensees and holders of construction permits in active or deferred status. Enclosure 1 of Reference 1 requested each addressee located in the Central and Eastern United States (CEUS) to submit a Seismic Hazard Evaluation and Screening Report within 1.5 years from the date of Reference 1.

In Reference 2, the Nuclear Energy Institute (NEI) requested NRC agreement to delay submittal of the final CEUS Seismic Hazard Evaluation and Screening Reports so that an update to the Electric Power Research Institute (EPRI) ground motion attenuation model could be completed and used to develop that information. NEI proposed that descriptions of subsurface materials and properties and base case velocity profiles be submitted to the NRC by September 12, 2013, with the remaining seismic hazard and screening information submitted by March 31, 2014. NRC agreed with that proposed path forward in Reference 3.

Reference 4 contains industry guidance and detailed information to be included in the Seismic Hazard Evaluation and Screening Report submittals. NRC endorsed this industry guidance in Reference 5.

In Reference 7, NextEra Energy Seabrook submitted its Seismic Hazard Evaluation and Screening Report for Seabrook Station providing the information described in Section 4 of Reference 4 in accordance with the schedule identified in Reference 2.

The enclosure to this letter provides the NextEra Energy Seabrook Expedited Seismic Evaluation Process Report for Seabrook Station as directed by Reference 6.

This letter contains no new regulatory commitments.

If you have any questions regarding this report, please contact Mr. Michael Ossing, Licensing Manager, at (603) 773-7512.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on December 19, 2014

Sincerely,

NextEra Energy Seabrook, LLC

Dean Curtland
Site Vice President

Enclosure

cc: D. Dorman, NRC Region I Administrator
J. G. Lamb, NRC Project Manager
P. Cataldo, NRC Senior Resident Inspector

Enclosure to SBK-L-14229

Seabrook Station

NextEra Energy Seabrook, LLC Expedited Seismic Evaluation Process Report (CEUS Sites)
Related to the Response to NRC Request for Information Pursuant to 10 CFR 50.54(f) Regarding
Recommendation 2.1 of the Near-Term Task Force Review of Insights
From the Fukushima Dai-ichi Accident

Expedited Seismic Evaluation Process (ESEP) for Seabrook Station

1.0 Purpose and Objective

Following the accident at the Fukushima Dai-ichi nuclear power plant resulting from the March 11, 2011, Great Tohoku Earthquake and subsequent tsunami, the Nuclear Regulatory Commission (NRC) established a Near Term Task Force (NTTF) to conduct a systematic review of NRC processes and regulations and to determine if the agency should make additional improvements to its regulatory system. The NTTF developed a set of recommendations intended to clarify and strengthen the regulatory framework for protection against natural phenomena. Subsequently, the NRC issued a 50.54(f) letter on March 12, 2012 [1], requesting information to assure that these recommendations are addressed by all U.S. nuclear power plants. The 50.54(f) letter requests that licensees and holders of construction permits under 10 CFR Part 50 reevaluate the seismic hazards at their sites against present-day NRC requirements and guidance. Depending on the comparison between the reevaluated seismic hazard and the current design basis, further risk assessment may be required. Assessment approaches acceptable to the staff include a seismic probabilistic risk assessment (SPRA), or a seismic margin assessment (SMA). Based upon the assessment results, the NRC staff will determine whether additional regulatory actions are necessary.

This report describes the Expedited Seismic Evaluation Process (ESEP) undertaken for Seabrook Station. The intent of the ESEP is to perform an interim action in response to the NRC's 50.54(f) letter [1] to demonstrate seismic margin through a review of a subset of the plant equipment that can be relied upon to protect the reactor core following beyond design basis seismic events.

The ESEP is implemented using the methodologies in the NRC endorsed guidance in EPRI 3002000704, Seismic Evaluation Guidance: Augmented Approach for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic [2].

The objective of this report is to provide summary information describing the ESEP evaluations and results. The level of detail provided in the report is intended to enable the NRC to understand the inputs used, the evaluations performed, and the decisions made as a result of the interim evaluations.

2.0 Brief Summary of the FLEX Seismic Implementation Strategies

The Seabrook Station FLEX strategies for Reactor Core Cooling and Heat Removal, Reactor Inventory Control/Long-term Sub-criticality, Spent Fuel Pool (SFP) cooling and Containment Function are summarized below. This summary is derived in part from the Seabrook Overall Integrated Plan (OIP) in Response to the March 12, 2012, Commission Order EA-12-049 [Ref. 3] and includes changes required to the strategy which will be included in the February 28, 2015 six month update to the NRC. Specifically, the Seabrook FLEX strategy will be modified to provide additional portable equipment stored within a Class I structure and protected from all external hazards and the strategies associated with that portable equipment. Supplemental Emergency Power System (SEPS) and the cooling tower will remain the optimum response for any event that does not result in a missile loss of the SEPS or cooling tower. Modifications to seismically harden SEPS are proceeding as originally planned. The original OIP included backup capability using existing diesel powered pumps. The revised strategy will continue to use the same connection points but will provide full coping capability. The additional protected portable equipment will consist of:

- Low Pressure FLEX Pump (LPFP)
- High Pressure FLEX Pump (HPFP)
- The existing Cooling Tower (Brown's River) pump
- Submersible pump and associated generator
- 250 KW generator
- Tow vehicle
- Debris removal equipment
- Refueling cart

Initially, (Phase 1) the plant is assumed to trip due to a loss of offsite power caused by the Beyond Design Basis External Event and be in an extended loss of AC power (ELAP) event. For a BDBEE with significant warning such as a hurricane or severe winter storm it is also possible that the plant will already be shutdown in Mode 3 or Mode 4 at the time the loss of offsite power occurs. The plant response will be different in the three phases depending on whether the SEPS and cooling tower remain functional. The following provides a general description for each phase of coping, with and without SEPS available.

Phase 1 - Initial coping using installed plant equipment

SEPS/Cooling Tower Available

The SEPS generators are assumed to start automatically as designed and run in standby until manually connected to an Emergency Bus. If necessary, SEPS can also be started manually from the digital control panel in the 'B' Essential Switchgear Room or locally from the digital control

panels in each genset enclosure. The operating crew will manually close the SEPS breaker to 4.16 kV bus E6 ('B' Train vital power) from the Control Room, or locally in the 'B' Train Essential Switchgear Room. This action re-powers Bus E6 to supply 'B' Train ELAP loads. If Bus E6 is unavailable, SEPS can be manually aligned and connected to Bus E5 ('A' Train vital power). Once a 4.16 KV Emergency Bus is energized, operators verify that a centrifugal charging pump (CCP), a thermal barrier cooling water (TBCW) pump, a primary component cooling water (PCCW) pump, the motor-driven Emergency Feedwater (EFW) pump, and an ocean Service Water (SW) pump or a Cooling Tower (CT) pump are started by the Emergency Power Sequencer (EPS). Operation of a CCP and a TBCW pump ensures adequate RCP seal cooling throughout the event. This also marks the transition point from Phase 1 to Phase 2 event coping with SEPS and the cooling tower available.

SEPS /Cooling Tower Assumed to be Lost as a Result of Wind Driven Missiles

In the event that the SEPS and/or cooling tower are lost as a result of wind driven missiles, the Phase 1 coping will rely on the turbine-driven EFW (TDEFW) pump manually operated to provide EFW flow to all four SGs with water from the Condensate Storage Tank (CST). The Atmospheric Steam Dump Valves (ASDVs) will be used for heat removal. The protected CST volume is adequate for 8 hours of heat removal. Station batteries are adequate for coping of at least 12 hours with load reduction after 2 hours. No RCS makeup is required for Phase 1 after installation of the Shield low leakage Reactor Coolant Pump (RCP) seals scheduled for October 2015.

Phase 2 - Transition from installed plant equipment to on-site FLEX equipment

SEPS/Cooling Tower Available

Seabrook's Phase 2 response with SEPS and tower available begins when an Emergency 4.16 KV Bus is re-powered from SEPS (Bus E6 preferred). Reactor Coolant System (RCS) heat sink will be maintained by feeding the Steam Generators (SGs) using the turbine-driven EFW pump while steaming to the atmosphere via the ASDVs on each main steam line. The TDEFW pump is assumed to provide EFW flow to all four SGs with water from the CST. Prior to commencing a RCS cool down, a rapid boration is required to achieve Cold Shutdown boron concentration. This requires opening the rapid boration valve (CS-V426) which provides 7000 ppm boric acid to the charging pump suction. CS-V426 is powered from a "B" Train motor control center (MCC); therefore it can be operated from the control room with SEPS powering Bus E6. If necessary, this valve can also be opened locally by a field operator in the Boric Acid Tank (BAT) room. An alternate available borated water source is the Refueling Water Storage Tank (RWST) which can be aligned to the charging pump suction. A cool down to Cold Shutdown ensures that the 'B' Train Residual Heat Removal (RHR) system can be placed in operation prior

to expending available water volume in the CST. The Primary Component Cooling Water (PCCW) system provides cooling water to safety related equipment, including the RHR pump and RHR heat exchanger. The PCCW system also provides cooling water flow to the spent fuel pool heat exchanger in the Fuel Storage Building and the RCP Thermal Barrier cooling loop located inside the Containment Building. The PCCW heat exchanger is provided with cooling water flow from the Service Water System via the 'B' Train Cooling Tower pump. PCCW system temperature is controlled by air-operated temperature control and bypass valves which are provided with a nitrogen backup supply in the event that control air pressure is lost. The safety-related nitrogen backup supply is sized to provide 10 full cycles of the temperature control and bypass valves over a 6 hour period. If necessary, these valves can also be operated locally in the Primary Auxiliary Building by a field operator. The RCS will be cooled down and de-pressurized to a point where the RHR system can be placed in service (RCS temperature less than 350°F and RCS pressure less than 360 psig). The NEI 12-06 (Diverse and Flexible Coping Strategies (FLEX) Implementation Guide) assumption of the loss of normal access to the Ultimate Heat Sink (UHS) means that the ocean Service Water pumps are assumed to be unavailable for the duration of the event. Consequently, Seabrook will rely on the Service Water Cooling Tower as a backup ultimate heat sink. Heat sink will be restored by starting the 'B' Cooling Tower pump to restore flow in the 'B' Train Service Water System. This action can also be accomplished by manual actuation of a Tower Actuation Signal from the control room. Once RCS temperature and pressure have been reduced to RHR system operating conditions, the RHR system will be placed in service to continue the RCS cooldown to Mode 5. The RHR system will be used to maintain the RCS in Mode 5 for long-term coping. It is anticipated that the operating crew will evaluate refueling strategies for the SEPS gensets relatively early in the event. This action should not be delayed past 24 hours to allow adequate time for strategy implementation. NEI 12-06 Section 3.2.2.(13) requires that "Regardless of installed coping capability, all plants will include the ability to use portable pumps to provide Reactor Pressure Vessel (RPV)/RCS/SG makeup as a means to provide a diverse capability beyond installed equipment." At Seabrook Station this will be accomplished by the FLEX portable low pressure (LP) and portable high pressure (HP) pumps stored in a class 1 structure.

SEPS/Cooling Tower Assumed to be Lost as a Result of Wind Driven Missiles

In the event that the SEPS and/or cooling tower are lost as a result of wind driven missiles, the Phase 2 strategy will utilize the portable FLEX equipment and proceed to depressurize the SGs to 250 psi. The portable low pressure FLEX pumps will be able to pump from the CST or alternate water source to all four SG's via the EFW header, or via the alternate discharge path to the main feed water lines. The alternate water source will be from protected sources with water quality and quantity sufficient for steaming the generators without loss of heat transfer from fouling until the 72-hour mark. Load shedding of the DC busses will be followed by connecting a 250 KW generator to Train A or Train B DC bus portable battery charger for battery charging,

DC control power and one train of instrumentation. Backup instrumentation readings can be accessed locally. RCS makeup should not be required for the Phase 2 duration; however, the FLEX high pressure pumps are available to provide injection from the Boric Acid Tanks (BAT). RCS Inventory is adequate for a minimum of 7 days with the low leakage RCP seals. RCS boration will be required within 8 hours and is accomplished with Safety Injection Tank (SIT) and High Pressure FLEX Pump (HPFP) pumping from BAT to one of two discharge connection points to the RCS. SFP makeup will be provided by gravity drain from the RWST or from the alternate water source if required.

Phase 3 - Obtain additional capability/redundancy from off-site equipment

SEPS/Cooling Tower Available

In this scenario the Regional Response Center (RRC) equipment delivered for Phase 3 becomes a backup to the SEPS with the plant already on shutdown cooling.

SEPS/Cooling Tower Assumed to be Lost as a Result of Wind Driven Missiles

The RRC supplies 4160V and 480V generators, additional pumps, and hose connections. The RRC 4160V generator is connected to bus 5 or bus 6 through the SEPS feeder breaker to the bus. The RCC low pressure, high flow pump with submersible suction booster pumps is connected to the SW system to pump water from the SW intake bay into the SW supply header. The Primary Component Cooling (PCCW), Spent Fuel Pool cooling, and RHR systems are placed in service for long term cooling.

3.0 Equipment Selection Process and Expedited Seismic Equipment List (ESEL)

The general process for developing the Expedited Seismic Equipment List (ESEL) follows Section 3, "Equipment Selection" of EPRI-3002000704 [2]. The selection of equipment for expedited seismic evaluation is based on the equipment identified in the Seabrook-specific FLEX implementation coping strategies. This includes the installed equipment and connection points associated with FLEX during the three phases of response. The scope of components included on the ESEL is based on a detailed review of the equipment required to perform the various functions and associated support system functions.

The ESEL component selection followed the EPRI guidance outlined in Section 3.2 of EPRI 3002000704. The Seabrook strategy involves the use of the installed SEPS generators to repower a safety bus which results in the identification of significantly more electrical distribution equipment than in strategies that employ portable pumps. The following considerations were used to develop the ESEP.

1. The scope is limited to the primary means of accomplishing the implementation of the FLEX strategies as defined for the core cooling and containment functions for Phases 1, 2 and 3. Although the primary strategy utilizes the SEPS and cooling tower, the connections needed for the portable equipment were also bounded by this approach.
2. All installed equipment necessary for the successful implementation of the strategy (e.g., support system components such as power and control cabinets, component cooling, etc.)
3. Electrical breakers and relays whose failure could disable Phase 1 equipment. The scope of relays included on the ESEL is limited to lock-out and seal-in relays
4. Primary connection points for portable equipment.
5. Instrumentation needed to provide a key parameter, provided the required function can still be accomplished.
6. A minimum set of water sources needed to perform the required function is considered.
7. Structures, systems and components excluded per the EPRI 3002000704 guidance are:
    - structures (e.g., containment, control building, auxiliary building, etc.).
    - Piping, cabling, conduit, HVAC duct work and supports.
    - Manual valves, check valves and rupture disks.
    - Power operated valves (MOV, AOV, SOV, etc.) not required to change state as part of the FLEX mitigation strategies
    - Nuclear Steam Supply System components (e.g. RPV and internals, RCPs and seals, etc.).
8. SEPS is integral to Seabrook's primary FLEX strategy; however, the SEPS components are not included on the attached ESEL. Because the SEPS was known to be designed non-safety-related and non-seismic, an independent evaluation was completed earlier. This evaluation [16] was performed consistent with criteria for the Augmented Approach using EPRI NP-6041-SL guidance but prior to the receipt of the EPRI GMRS. Seismic upgrades were identified to be required to the genset base mounting and auxiliaries. These modifications will be completed prior to the fall 2015 refueling outage (OR17). Additionally, any differences between the original evaluation and the new EPRI GMRS will be reconciled during the modification development.

The complete ESEL for Seabrook Station is presented in Attachment 1.

4.0 Ground Motion Response Spectrum (GMRS)

4.1 Plot of GMRS Submitted by the Licensee

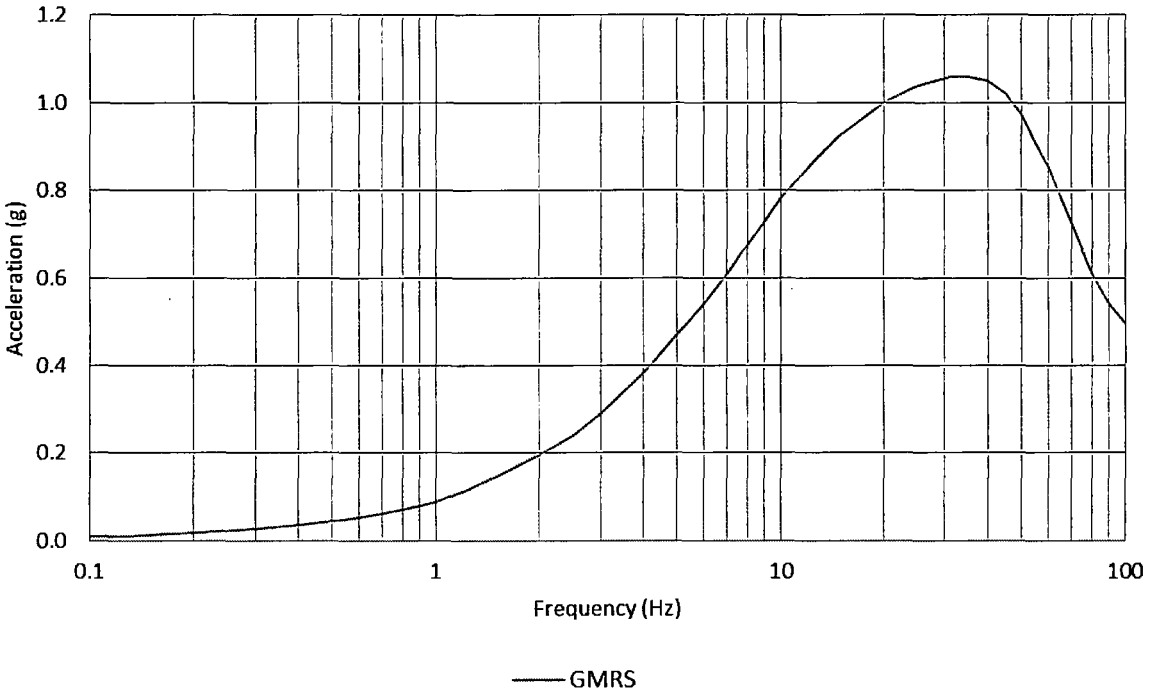
The SSE Control Point elevation is defined at the top of hard rock at + 21'0" MSL, as discussed in Section 3.2 of the March submittal report [4].

The GMRS provided in the March submittal report [Ref. 4] is tabulated and graphed below:

Table 4-1 Seabrook GMRS

Frequency (Hz)	GMRS (g)	Frequency (Hz)	GMRS (g)
100	0.499	5	0.469
90	0.540	4	0.384
80	0.611	3	0.291
70	0.719	2.5	0.240
60	0.853	2	0.198
50	0.976	1.5	0.147
45	1.02	1.25	0.118
40	1.05	1	0.0886
35	1.06	0.9	0.0807
31	1.06	0.8	0.0722
25	1.04	0.7	0.0633
20	1.00	0.6	0.0540
15	0.927	0.5	0.0443
12.5	0.866	0.4	0.0355
10	0.783	0.3	0.0266
9	0.730	0.2	0.0177
8	0.672	0.167	0.0148
7	0.609	0.125	0.0111
6	0.542	0.1	0.00887

Figure 4-1 Seabrook GMRS Plot



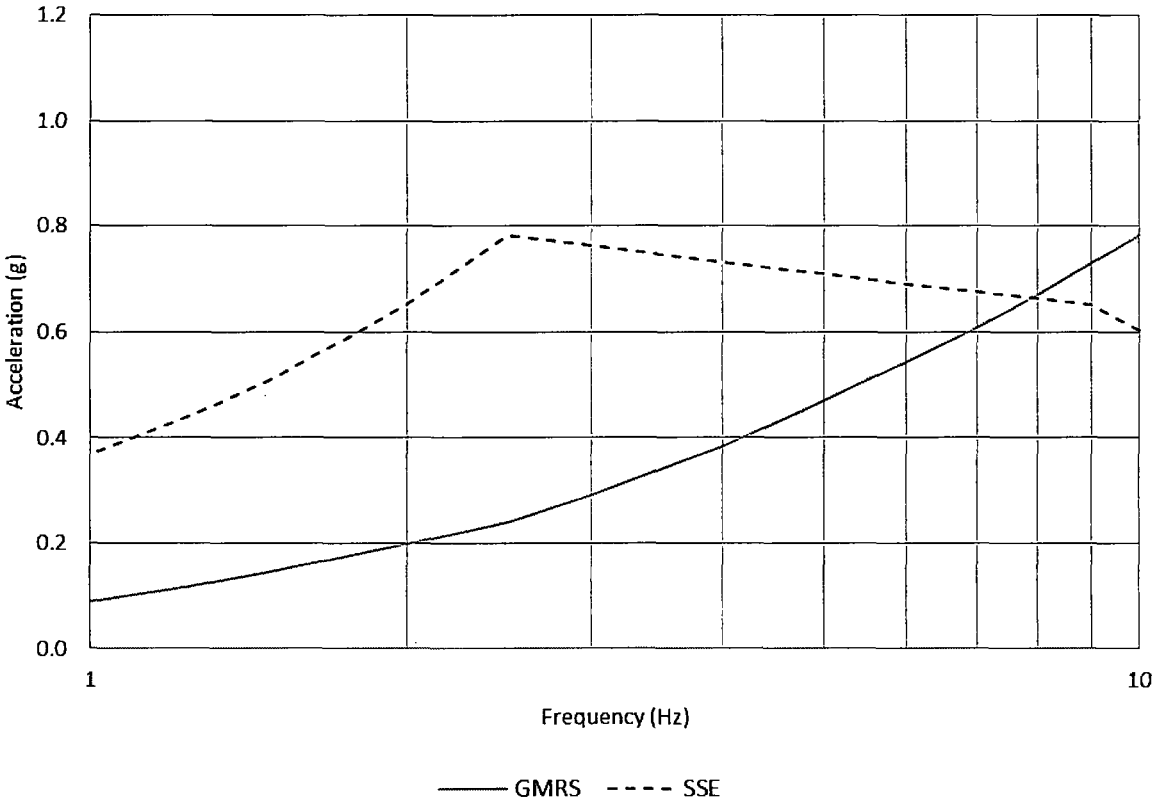
4.2 Comparison to SSE

As identified in the March submittal report [4], the GMRS for Seabrook exceeds the Seabrook SSE in the 1-10 Hz range as shown in the table and graph below. Values for GMRS and horizontal SSE in Table 4-2 are taken from the March submittal report [4].

Table 4-2 Seabrook GMRS vs. SSE

Freq. (Hz)	GMRS (unscaled, g)	Horizontal SSE (g)	GMRS/SSE
10	0.7830	0.6037	1.3
9	0.7300	0.6525	1.1
8	0.6720	0.6635	1.0
7	0.6090	0.6762	0.9
6	0.5420	0.6911	0.8
5	0.4690	0.7092	0.7
4	0.3840	0.7320	0.5
3	0.2910	0.7625	0.4
2.5	0.2400	0.7825	0.3
2	0.1980	0.6513	0.3
1.5	0.1470	0.5141	0.3
1.25	0.1180	0.4422	0.3
1	0.0886	0.3683	0.2

Figure 4-2 Seabrook GMRS vs. SSE Plot



5.0 Review Level Ground Motion (RLGM)

5.1 Description of RLGM Selected

The RLGM for Seabrook was determined in accordance with Section 4 of EPRI 30020000704 [2] as being derived by linearly scaling the Seabrook SSE by the maximum ratio of the GMRS/SSE between the 1 and 10 hertz range. The maximum ratio between the 5% damping GMRS and horizontal SSE occurs at 10 Hz and equals 1.30, as determined in Table 4-2.

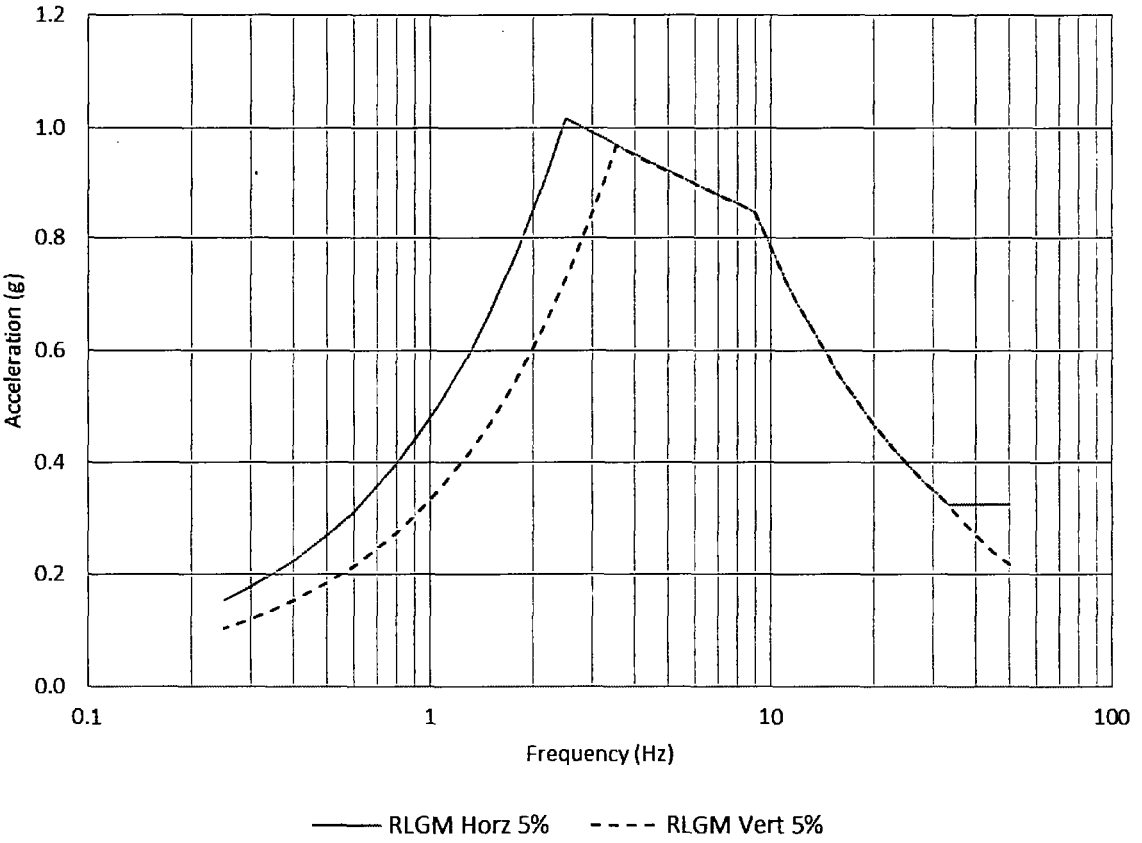
The RLGM is based on increasing the 5% damped horizontal and vertical SSE, per Figure 2.5-43 and 2.5-44 of the Seabrook UFSAR [13], by the maximum ratio of 1.30. The resulting RLGM is tabulated and plotted below.

Table 5-1 Seabrook RLGM

Freq. (Hz)	RLGM	
	Horizontal (g)	Vertical (g)
50.00	0.3250	0.2167
45.00	0.3250	0.2401
41.00	0.3250	0.2630
37.00	0.3250	0.2907
33.00	0.3250	0.3250
31.00	0.3404	0.3404
28.00	0.3669	0.3669
25.00	0.3989	0.3989
22.00	0.4384	0.4384
20.00	0.4704	0.4704
18.00	0.5085	0.5085
16.00	0.5547	0.5547
15.00	0.5817	0.5817
14.00	0.6121	0.6121
13.00	0.6466	0.6466
12.00	0.6859	0.6859
11.00	0.7314	0.7314
10.00	0.7848	0.7848
9.00	0.8483	0.8483
8.50	0.8552	0.8551
8.00	0.8625	0.8624
7.50	0.8705	0.8702
7.00	0.8790	0.8787
6.50	0.8883	0.8879
6.00	0.8985	0.8979
5.50	0.9096	0.9090
5.00	0.9220	0.9212
4.50	0.9359	0.9349
4.00	0.9516	0.9505

Freq. (Hz)	RLGM	
	Horizontal (g)	Vertical (g)
3.70	0.9622	0.9610
3.50	0.9698	0.9685
3.10	0.9867	0.8734
2.80	1.0010	0.8009
2.50	1.0173	0.7272
2.40	0.9837	0.7023
2.20	0.9157	0.6522
2.00	0.8467	0.6013
1.80	0.7764	0.5497
1.60	0.7048	0.4972
1.50	0.6683	0.4706
1.40	0.6315	0.4438
1.30	0.5941	0.4166
1.20	0.5563	0.3892
1.10	0.5179	0.3614
1.00	0.4788	0.3332
0.90	0.4391	0.3046
0.80	0.3986	0.2755
0.70	0.3571	0.2459
0.60	0.3146	0.2157
0.50	0.2708	0.1846
0.40	0.2254	0.1527
0.30	0.1779	0.1195
0.25	0.1531	0.1023

Figure 5-1 Plot of RLGM



5.2 Method to Estimate In-Structure Response Spectra (ISRS)

The method used to derive the ESEP in-structure response spectra (ISRS) was to scale the existing N/S, E/W, and Vertical SSE-based ISRS [14] by the maximum ratio of 1.30. The scaled ISRS were determined, as needed, for buildings and elevations where ESEL items are located at Seabrook. Refer to Calculation 14Q4251-CAL-001 [7] for these scaled ISRS. These scaled ISRS are sometimes referred to as the Review Level Ground Motion In-Structure Response Spectra (RLGM ISRS).

6.0 Seismic Margin Evaluation Approach

It is necessary to demonstrate that ESEL items have sufficient seismic capacity to meet or exceed the demand characterized by the RLGM. The seismic capacity is characterized as the peak ground acceleration (PGA) for which there is a high confidence of a low probability of failure (HCLPF). The PGA is associated with a specific spectral shape, in this case the 5%-damped RLGM spectral shape. The HCLPF capacity must be equal to or greater than the RLGM PGA of 0.325g. The criteria for seismic capacity determination are given in Section 5 of EPRI 3002000704 [2].
There are two basic approaches for developing HCLPF capacities:

1. Deterministic approach using the conservative deterministic failure margin (CDFM) methodology of EPRI NP-6041, A Methodology for Assessment of Nuclear Power Plant Seismic Margin (Revision 1) [5].

2. Probabilistic approach using the fragility analysis methodology of EPRI TR-103959, Methodology for Developing Seismic Fragilities [6].

For Seabrook, the deterministic approach using the CDFM methodology of EPRI NP-6041 [5] was used to determine HCLPFs.

6.1 Summary of Methodologies Used

Seabrook conservatively applied the methodology of EPRI NP-6041 [5] to all items on the ESEL. The screening walkdowns used the screening tables from Chapter 2 of EPRI NP-6041 [5]. The walkdowns were conducted by engineers who as a minimum attended the SQUG Walkdown Screening and Seismic Evaluation Training Course. The walkdowns were documented on Screening Evaluation Work Sheets (SEWS) from EPRI NP-6041 [5]. Anchorage capacity calculations were determined using the CDFM criteria from EPRI NP-6041 [5] with Seabrook specific allowables and material strengths used as applicable. Seismic demand was the RLGM provided in Table 5-1 and Figure 5-1.

6.2 HCLPF Screening Process

The peak horizontal spectral acceleration of the RLGM for Seabrook equals 1.02g at 2.5Hz (Table 5-1). Table 2-4 of EPRI NP-6041 [5] is based on ground peak spectral accelerations of 0.8g and 1.2g. Based on a peak spectral acceleration of 1.02g, the Seabrook ESEL components were screened against the "0.8 - 1.2g" column of Table 2-4 of NP-6041 [5].

The Seabrook ESEL contains 852 items (see Attachment 1). Of these items, 656 are subcomponents of the remaining 196 components. Of the subcomponents, 8 were identified as seal-in type relays. The components in the ESEL were evaluated to the EPRI NP-6041 [5] checklists and documented on equipment Screening & Evaluation Sheets (SEWS) for the 196 main components, including identification of hosted subcomponents.

6.3 Seismic Walkdown Approach

6.3.1 Walkdown Approach

Walkdowns for Seabrook were performed in accordance with the criteria provided in Section 5 of EPRI 3002000704 [2], which refers to EPRI NP-6041 [5] for the Seismic Margin Assessment process. Pages 2-26 through 2-30 of EPRI NP-6041 [5] describe the seismic walkdown criteria, including the following key criteria.

> *"The SRT [Seismic Review Team] should "walk by" 100% of all components which are reasonably accessible and in non-radioactive or low radioactive environments. Seismic capability assessment of components which are inaccessible, in high-radioactive environments, or possibly within contaminated Containment, will have to rely more on alternate means such as photographic inspection, more reliance on seismic reanalysis, and possibly, smaller inspection teams and more hurried inspections. A 100% "walk by" does not mean complete inspection of each component, nor does it mean requiring an electrician or other technician to de-energize and open cabinets or panels for detailed inspection of all components. This walkdown is not intended to be a QA or QC review or a review of the adequacy of the component at the SSE level.*
>
> *If the SRT has a reasonable basis for assuming that the group of components are similar and are similarly anchored, then it is only necessary to inspect one component out of this group. The "similarity-basis" should be developed before the walkdown during the seismic capability preparatory work (Step 3) by reference to drawings, calculations or specifications. The one component of each type which is selected should be thoroughly inspected which probably does mean de-energizing and opening cabinets or panels for this very limited sample. Generally, a spare representative component can be found so as to enable the*

inspection to be performed while the plant is in operation. At least for the one component of each type which is selected, anchorage should be thoroughly inspected.

The walkdown procedure should be performed in an ad hoc manner. For each class of components the SRT should look closely at the first items and compare the field configurations with the construction drawings and/or specifications. If a one-to-one correspondence is found, then subsequent items do not have to be inspected in as great a detail. Ultimately the walkdown becomes a "walk by" of the component class as the SRT becomes confident that the construction pattern is typical. This procedure for inspection should be repeated for each component class; although, during the actual walkdown the SRT may be inspecting several classes of components in parallel. If serious exceptions to the drawings or questionable construction practices are found then the Seismic or component class must be inspected in closer detail until the Systematic deficiency is defined.

The 100% "walk by" is to look for outliers, lack of similarity, anchorage which is different from that shown on drawings or prescribed in criteria for that component, potential SI [Seismic Interaction[1]] problems, situations that are at odds with the team members' past experience, and any other areas of serious seismic concern. If any such concerns surface, then the limited sample size of one component of each type for thorough inspection will have to be increased. The increase in sample size which should be inspected will depend upon the number of outliers and different anchorages, etc., which are observed. It is up to the SRT to ultimately select the sample size since they are the ones who are responsible for the seismic adequacy of all elements which they screen from the margin review. Appendix D gives guidance for sampling selection."

The Seabrook walkdowns included, as a minimum, a 100% walk-by of all items on the ESEL except as noted in Section 7.0. Any previous walkdown information that was relied upon for SRT judgment is documented in Section 6.3.2.

6.3.2 Application of Previous Walkdown Information

As applicable, walkdown results, photos, and anchorage verification from the NTTF 2.3 walkdowns for Seabrook [12] were used as an aid to the SRT to confirm walkdown observations and verify conformance with design drawings and documents.

[1] EPRI 3002000704 [2] page 5-4 limits the ESEP seismic interaction reviews to "nearby block walls" and "piping attached to tanks" which are reviewed "to address the possibility of failures due to differential displacements." Other potential seismic interaction evaluations are "deferred to the full seismic risk evaluations performed in accordance with EPRI 1025287 [11].

6.3.3 Significant Walkdown Findings

Consistent with the guidance from NP-6041 [5], no significant outliers or anchorage concerns were identified during the Seabrook seismic walkdowns.

6.4 HCLPF Calculation Process

ESEL items were evaluated using the criteria in EPRI NP-6041 [5]. Those evaluations included the following steps:

- Performing seismic capability walkdowns for equipment to evaluate the equipment installed plant conditions
- Performing screening evaluations using the screening tables in EPRI NP-6041 [5] as described in Section 6.2 and
- Performing HCLPF calculations considering various failure modes that include both structural failure modes (e.g. anchorage, load path etc.) and functional failure modes [Note: functional failure modes are for relays only].

All HCLPF calculations were performed using the CDFM methodology. Simple HCLPF calculations were performed as part of the screening process and are documented in 14Q4251-CAL-002 [7]. Detailed HCLPF calculations were performed in calculations 14Q4251-CAL-003 through 14Q4251-CAL-006 [7].

Anchorage for components was evaluated either by SRT judgment, large margins in existing design basis calculations, or CDFM HCLPF calculations [7]. These evaluations are summarized in Attachment 2. For components located higher than ~40 feet above grade, Table 2-4 of NP-6041 [5] is not directly applicable.

Page 5-4 of EPRI 3002000704 [2] references the EPRI document 1019200 [15] with respect to screening criteria beyond ~40 feet above grade. Section 4-2 of 1019200 specifies 1.5 as an appropriate factor to evaluate the HCLPF capacity of in-structure mounted items. As such, the Table 2-4 spectral accelerations are multiplied by a factor of 1.5 in order to account for spectral acceleration at the base of the component. This screening level at the base of the components is compared to the RLGM ISRS.

ESEP equipment items which are beyond ~40ft above grade are located in the Control Building (CB) at elevation 75' and the Cooling Tower at elevation 78'. The 5% damped horizontal response spectra at these locations are documented in 14Q4251-CAL-001 [7]. The maximum horizontal spectral peak for is 4.2305g for CB 75' and 7.4273g for CT 78', falling well above the upper bound of the NP-6041 Table 2-4 [5] second column of 1.5 * 1.2g = 1.8g. Since the spectral peaks are greater than 1.8g, all components at these locations must be evaluated per the

>1.8g screening column of NP-6041 Table 2-4 [5], which requires a seismic margins evaluation of the component for the RLGM ISRS. All components at these locations were evaluated against the RLGM ISRS in 14Q4251-CAL-002 [7].

6.5 Functional Evaluation of Relays

A HCLPF evaluation is performed for all relays and switches which may negatively "seal in" or "lock out" on the Seabrook ESEL.

For relay evaluations, NP-6041-SL Appendix Q describes the following steps:

- Calculate in-cabinet response spectra (ICRS)
- Establish a clipping factor to be applied to the ICRS
- Determine a relay's Generic Equipment Ruggedness Spectrum (GERS) Capacity
- Establish adjustment factors to convert the relay's GERS capacity to a CDFM level
- Compare clipped-peak and Zero Period Acceleration (ZPA) demands to the GERS capacity

HCLPF capacities for the relays on the Seabrook ESEL are calculated in 14Q4251-CAL-004 [7] and are presented in Attachment 2.

6.6 Tabulated ESEL HCLPF results

Tabulated ESEL HCLPF results including controlling failure modes, if applicable, are included in Attachment 2 for all items on the ESEL. For items where the HCLPF has been determined to exceed the RLGM, the HCLPF value will be given as "> RLGM." For all other cases, a controlling HCLPF value and controlling failure mode will be given. The nature of the HCLPF evaluation will be identified through the use of the following terms:

- "Screened" for components which have met the screening criteria of the NP-6041 [5] screening tables.
- "Anchorage" for components where an anchorage evaluation has been performed.
- "Relay Function" for relays where an evaluation has been performed.
- "Component Evaluation" for components where an evaluation has been performed on the component itself, including screening for elevation > ~40' above grade.

7.0 Inaccessible Items

7.1 Identification of ESEL items inaccessible for walkdowns

The following table lists the ESEL items that were not walked down, a discussion on why these items were not walked down, and states whether further action (i.e. future walkdown) is required. Details on the screening and evaluation of the inaccessible items are provided in 14Q4251-CAL-002 [7].

Table 7-1 ESEL Items Not Walked Down

Equipment ID	Description	Building	Discussion	Further action req'd?
1-SW-V-140	COOLING TOWER RETURN SPRAY MOV	Cooling Tower	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-CC-E-153B	LOOP B THERMAL BARRIER HX	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-CC-P-322B	LOOP B THERMAL BARRIER PUMP	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-CS-V-168	SEAL WATER RETURN LINE CON'T ISOLATION MOV	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-FW-LT-501	SG A WIDE RANGE LEVEL TRANSMITTER	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-FW-LT-502	SG B WIDE RANGE LEVEL TRANSMITTER	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No

Equipment ID	Description	Building	Discussion	Further action req'd?
1-FW-LT-503	SG C WIDE RANGE LEVEL TRANSMITTER	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-FW-LT-504	SG D WIDE RANGE LEVEL TRANSMITTER	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-CC-V-176	LOOP B PCCW TO CON'T ISOLATION (IRC) AOV	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-FW-LT-519	SG A NARROW RANGE LEVEL TRANSMITTER	Containment	This item was not visible during walkdowns. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-FW-LT-537	SG C NARROW RANGE LEVEL TRANSMITTER	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-MM-IR-6	CONTAINMENT INSTRUMENT RACK 6	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-MM-IR-8	CONTAINMENT INSTRUMENT RACK 6	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-RC-LT-459	PZR LEVEL CHANNEL I TRANSMITTER	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-RC-LT-460	PZR LEVEL CHANNEL II TRANSMITTER	Containment	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No

Equipment ID	Description	Building	Discussion	Further action req'd?
1-FAH-FY-5443-2	FAH-DP-13B FUEL HANDLING MODE SOLENOID POWER	Containment Enclosure	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-CS-E-5B	SEAL WATER HEAT EXCHANGER 5B	Primary Auxiliary Building	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-CS-F-3	SEAL WATER RETURN FILTER	Primary Auxiliary Building	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-CS-F-4A	SEAL WATER SUPPLY FILTER 4A	Primary Auxiliary Building	For ALARA purposes, this item was not walked down. The equipment is evaluated based on other means, including photographs and existing design documentation, and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-EDE-B-1-A	VITAL 125VDC BATTERY A	Control Building	This item was not accessible during walkdowns. The equipment is evaluated based on existing design documentation and walkdowns of similar equipment (1-EDE-B-1-C and 1-EDE-B-1-D) and is found to be seismically adequate relative to the RLGM. No further action is required.	No
1-EDE-B-1-B	VITAL 125VDC BATTERY B	Control Building	This item was not accessible during walkdowns. The equipment is evaluated based on existing design documentation and walkdowns of similar equipment (1-EDE-B-1-C and 1-EDE-B-1-D) and is found to be seismically adequate relative to the RLGM. No further action is required.	No

7.2 Planned Walkdown / Evaluation Schedule / Close Out

There are no additional walkdowns required or planned.

8.0 ESEP Conclusions and Results

8.1 Supporting Information

Seabrook has performed the ESEP as an interim action in response to the NRC's 50.54(f) letter [1]. It was performed using the methodologies in the NRC endorsed guidance in EPRI 3002000704 [2]. The ESEP provides an important demonstration of seismic margin and expedites plant safety enhancements through evaluations and potential near-term modifications of plant equipment that can be relied upon to protect the reactor core following beyond design basis seismic events.

The ESEP is part of the overall Seabrook response to the NRC's 50.54(f) letter [1]. On March 12, 2014, NEI submitted to the NRC results of a study [8] of seismic core damage risk estimates based on updated seismic hazard information as it applies to operating nuclear reactors in the Central and Eastern United States (CEUS). The study concluded that "site-specific seismic hazards show that there has not been an overall increase in seismic risk for the fleet of U.S. plants" based on the re-evaluated seismic hazards. As such, the "current seismic design of operating reactors continues to provide a safety margin to withstand potential earthquakes exceeding the seismic design basis."

The NRC's May 9, 2014 NTTF 2.1 Screening and Prioritization letter [10] concluded that the "fleet wide seismic risk estimates are consistent with the approach and results used in the GI-199 safety/risk assessment." The letter also stated that "As a result, the staff has confirmed that the conclusions reached in GI-199 safety/risk assessment remain valid and that the plants can continue to operate while additional evaluations are conducted."

An assessment of the change in seismic risk for Seabrook was included in the fleet risk evaluation submitted in the March 12, 2014 NEI letter [8] therefore, the conclusions in the NRC's May 9 letter [10] also apply to Seabrook.

In addition, the March 12, 2014 NEI letter [8] provided an attached "Perspectives on the Seismic Capacity of Operating Plants," which (1) assessed a number of qualitative reasons why the design of SSCs inherently contain margin beyond their design level, (2) discussed industrial seismic experience databases of performance of industry facility components similar to nuclear SSCs, and (3) discussed earthquake experience at operating plants.

The fleet of currently operating nuclear power plants was designed using conservative practices, such that the plants have significant margin to withstand large ground motions safely. This has been borne out for those plants that have actually experienced significant earthquakes. The seismic design process has inherent (and intentional) conservatisms which result in significant seismic margins within structures, systems and components (SSCs). These conservatisms are reflected in several key aspects of the seismic design process, including:

- Safety factors applied in design calculations
- Damping values used in dynamic analysis of SSCs
- Bounding synthetic time histories for in-structure response spectra calculations
- Broadening criteria for in-structure response spectra
- Response spectra enveloping criteria typically used in SSC analysis and testing applications
- Response spectra based frequency domain analysis rather than explicit time history based time domain analysis
- Bounding requirements in codes and standards
- Use of minimum strength requirements of structural components (concrete and steel)
- Bounding testing requirements, and
- Ductile behavior of the primary materials (that is, not crediting the additional capacity of materials such as steel and reinforced concrete beyond the essentially elastic range, etc.).

These design practices combine to result in margins such that the SSCs will continue to fulfill their functions at ground motions well above the SSE.

8.2 Identification of Planned Modifications

Insights from the ESEP identified a single item where the HCLPF is below the RLGM and a plant modification will be made in accordance with EPRI 3002000704 [2] to enhance the seismic capacity of the plant:

1. Valve 1-MS-FV-3001 has a HCLPF below the RLGM and requires modification. The valve has a tubing elbow that will contact the operator guide support which could damage the tubing under seismic loading. Once the tubing elbow is modified in such a way that it will not contact the support steel, the valve can be shown to have a HCLPF > RLGM.

2. As stated previously the SEPS gensets were not included in the ESEL for this effort. Modification to SEPS to ensure it remains available subsequent to a seismic event will consist of installation of new anchors in the existing skid plates to resist uplift, support modifications to exhaust piping and modification of the existing battery racks.

8.3 Modification Implementation Schedule

Modification to the Valve 1-MS-FV-3001 tubing support, and SEPS seismic upgrades will be completed by the end of the Fall 2015 refueling outage (November 2015).

9.0 References

[1] NRC (E Leeds and M Johnson) Letter to All Power Reactor Licensees et al., "Request for Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(f) Regarding Recommendations 2.1, 2.3 and 9.3 of the Near-Term Task Force Review of Insights from the Fukushima Dai-Ichi Accident," March 12, 2012.

[2] Seismic Evaluation Guidance: Augmented Approach for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1 – Seismic. EPRI, Palo Alto, CA: May 2013. 3002000704.

[3] Overall Integrated Plan (OIP) in Response to the March 12, 2012, Commission Order EA-12-049

[4] SBK-L-14052, "NextEra Energy Seabrook, LLC Seismic Hazard and Screening Report (CEUS Sites), Response NRC Request for Information Pursuant to 10 CFR 50.54(f) Regarding Recommendation 2.1 of the Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident", March 27, 2014

[5] A Methodology for Assessment of Nuclear Power Plant Seismic Margin, Rev. 1, August 1991, Electric Power Research Institute, Palo Alto, CA. EPRI NP 6041

[6] Methodology for Developing Seismic Fragilities, August 1991, EPRI, Palo Alto, CA. 1994, TR-103959

[7] S&A Reports and Calculations
   a. Calculation 14Q4251-CAL-001, Rev. 0, ESEP In-Structure Response Spectra.
   b. Calculation 14Q4251-CAL-002, Rev. 0, ESEP Walkdown and Screening of Equipment.
   c. Calculation 14Q4251-CAL-003, Rev. 0, ESEP HCLPFs for Condensate Storage Tank and Refueling Water Storage Tank.
   d. Calculation 14Q4251-CAL-004, Rev. 0, ESEP HCLPFs for Relays.
   e. Calculation 14Q4251-CAL-005, Rev. 0, ESEP HCLPFs for Control Building Electrical Equipment.
   f. Calculation 14Q4251-CAL-006, Rev. 0, ESEP HCLPFs for Mechanical Equipment.

[8] Nuclear Energy Institute (NEI), A. Pietrangelo, Letter to D. Skeen of the USNRC, "Seismic Core Damage Risk Estimates Using the Updated Seismic Hazards for the Operating Nuclear Plants in the Central and Eastern United States", March 12, 2014

[9] Nuclear Energy Institute (NEI), A. Pietrangelo, Letter to D. Skeen of the USNRC, "Proposed Path Forward for NTTF Recommendation 2.1: Seismic Reevaluations", April 9, 2013

[10] NRC (E Leeds) Letter to All Power Reactor Licensees et al., "Screening and Prioritization Results Regarding Information Pursuant to Title 10 of the Code of Federal Regulations 50.54(F) Regarding Seismic Hazard Re-Evaluations for Recommendation 2.1 of the Near-Term Task Force Review of Insights From the Fukushima Dai-Ichi Accident," May 9, 2014.

[11] Seismic Evaluation Guidance: Screening, Prioritization and Implementation Details (SPID) for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic. EPRI, Palo Alto, CA: February 2013. 1025287.

[12] Seismic Walkdown Report in Response to the 50.54(f) Information Request Regarding Fukushima Near-Term Task Force Recommendation 2.3: Seismic for the Seabrook Station Unit 1, November 2012.

[13] Seabrook Station Updated Final Safety Analysis Report (UFSAR), Revision 16.

[14] Seabrook Station - Units 1 & 2 Amplified Response Spectra for Seismic Category I Structures, Revision 11, 7/15/87.

[15] EPRI document 1019200, "Seismic Fragility Applications Guide Update"

[16] Stevenson and Associates Document No. 13Q4168-RPT-001, Revision 0, July 2013, Seismic Evaluation of Seabrook Station Supplemental Emergency Power System Equipment.

Attachment 1

Seabrook FLEX Expedited Seismic Equipment List (ESEL)

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
FLEX ESEL - Decay Heat Removal via SG - EFW Turbine Driven Pump (TDEFW), ASDVs, MSIVs - Mechanical								
1	1-FW-P-37A-SKD-15	TDEFW PUMP AND TURBINE SKID	Standby	Operating		PID-1-FW-D20688	EFW Pumphouse, 28' elevation	Yes
2	TD-2	EMERGENCY FEED PUMP, TURBINE DRIVER	Standby	Operating	Evaluated as part of 1-FW-P-37A-SKD-15.	PID-1-FW-D20688		No
3	1-MS-V-129	TDEFW TURBINE GOVERNOR VALVE	Open & Latched	Open	Manual valve, excluded	PID-1-MS-D20582		No
4	1-MS-V-395	TDEFW PUMP STEAM SUPPLY VALVE (common valve)	Closed	Open		PID-1-MS-D20582	EFW Pumphouse, 28' elevation	Yes
5	1-MS-V-410	COMMON STEAM SUPPLY PIPING VENT	Locked Open	Open	Manual valve, excluded	PID-1-MS-D20582		No
6	1-MS-V-95	TDEFW PUMP STEAM SUPPLY VALVE	Locked Open	Open	Manual valve, excluded	PID-1-MS-D20582		No
7	1-MS-V-94	TDEFW PUMP STEAM SUPPLY CHECK VALVE (from SG-A)	Closed	Open	Check Valve, excluded	PID-1-MS-D20582		No
8	1-MS-V-96	TDEFW PUMP STEAM SUPPLY CHECK VALVE (from SG-B)	Closed	Open	Check Valve, excluded	PID-1-MS-D20582		No
9	1-MS-V-393	TDEFW PUMP STEAM SUPPLY VALVE (supply from SG-A)	Closed	Open		PID-1-MS-D20582	West Pipechase, 12' elev., South end	Yes
10	1-MS-V-127	TDEFW PUMP STEAM SUPPLY VALVE (from SG A)	Locked Open	Open	Manual valve, excluded	PID-1-MS-D20582		No
11	1-MS-V-171	MSD-V-127 BYPASS VALVE	Closed	Closed	Manual valve, excluded	PID-1-MS-D20582		No
12	1-MS-V-394	TDEFW PUMP STEAM SUPPLY VALVE (supply from SG-B)	Closed	Open		PID-1-MS-D20582	East Pipechase, 12' elev., South end	Yes
13	1-MS-V-128	TDEFW PUMP STEAM SUPPLY VALVE (from SG B)	Locked Open	Open	Manual valve, excluded	PID-1-MS-D20582		No
14	1-MS-V-172	MSD-V-128 BYPASS VALVE	Closed	Closed	Manual valve, excluded	PID-1-MS-D20582		No
15	1-CO-V-154	TDEFW PUMP SUCTION FROM CST	Locked Open	Open	Manual valve, excluded	PID-1-CO-D20426		No
16	1-CO-V-155	TDEFW PUMP SUCTION FROM CST	Locked Open	Open	Manual valve, excluded	PID-1-CO-D20426		No
17	1-CO-V-146	EMERG. MAKEUP TO CST	Locked Closed	Closed	Manual valve, excluded	PID-1-CO-D20426		No
18	1-FW-E-172	TDEFW TURBINE BEARING OIL COOLER	Standby	Operating	Evaluated as part of 1-FW-P-37A-SKD-15	PID-1-FW-D20688		No
19	1-FW-F-194	TDEFW TURBINE BEARING OIL FILTER	Standby	Operating	Evaluated as part of 1-FW-P-37A-SKD-15	PID-1-FW-D20688		No
20	1-FW-P-359	TDEFW TURBINE MAIN OIL PUMP	Standby	Operating	Evaluated as part of 1-FW-P-37A-SKD-15	PID-1-FW-D20688		No
21	1.FW-V-149	TDEFW BEARING OIL COOLER OUTLET VALVE	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20688		No
22	1.FW-V-351	TDEFW BEARING OIL COOLER OUTLET CHECK VALVE	Closed	Open	Check Valve, excluded	PID-1-FW-D20688		No
23	1.FW-V-354	EFW RECIRC TO CST VALVE	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20688		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
24	1.FW-V-349	EFW RECIRC TO CST CHECK VALVE	Closed	Open	Check Valve, excluded	PID-1-FW-D20688		No
25	1-CO-V-435	SUFP RECIRC TO CST CHECK VALVE	Closed	Closed	Check Valve, excluded	PID-1-CO-D20426		No
26	1-FW-V-353	MDEFW PUMP RECIRC CHECK VALVE	Closed	Closed	Functions to isolate backflow through MDEFW pump. Excluded	PID-1-FW-D20688		No
27	1-FW-V-70	MDEFW PUMP DISCHARGE CHECK VALVE	Closed	Closed	Functions to isolate backflow through MDEFW pump. Excluded	PID-1-FW-D20688		No
28	1-FW-V-346	TDEFW PUMP RECIRC MOV	Closed	Open/throttled	MOV is NC and functions to open/throttle to support EFW flow control long term for pump prot.	PID-1-FW-D20688	EFW Pumphouse, 28' elevation, at FW-P-37A	Yes
29	1-FW-V-64	TDEFW PUMP DISCHARGE CHECK VALVE	Closed	Open	Check Valve, excluded	PID-1-FW-D20688		No
30	1-FW-V-65	TDEFW PUMP DISCHARGE VALVE	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20688		No
31	1-FW-V-460	FW-V-357 BYPASS VALVE	Locked Closed	Closed	Manual valve, excluded	PID-1-FW-D20688		No
32	1-FW-V-357	SUFP X-CONNECT TO EFW CHECK VALVE	Closed	Closed	Check Valve, excluded	PID-1-FW-D20688		No
33	1-FW-V-125	TDEFW PUMP DISCHARGE RING HEADER VALVE	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20688		No
34	1-FW-V-126	TDEFW PUMP DISCHARGE RING HEADER VALVE	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20688		No
35	1-FW-V-127	TDEFW PUMP DISCHARGE RING HEADER VALVE	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20688		No
36	1-FW-V-75	EFW PUMP DISCHARGE TO SG A	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20688		No
37	1-FW-V-406	SG A RECIRC & LAYUP VALVE	Locked Closed	Closed	Manual valve, excluded	PID-1-FW-D20688		No
38	1-FW-V-87	EFW PUMP DISCHARGE TO SG D	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20688		No
39	1-FW-V-409	SG D RECIRC & LAYUP VALVE	Locked Closed	Closed	Manual valve, excluded	PID-1-FW-D20688		No
40	1-FW-V-93	EFW PUMP DISCHARGE TO SG C	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20688		No
41	1-FW-V-408	SG C RECIRC & LAYUP VALVE	Locked Closed	Closed	Manual valve, excluded	PID-1-FW-D20688		No
42	1-FW-V-81	EFW PUMP DISCHARGE TO SG B	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20688		No
43	1-MM-IR-49	EFW Bldg Train A Instrument Rack 49	Installed/ Energized	Installed/ Energized	Location for vital EFW controls	FP 71707	EFW Pumphouse, 28' elevation, West side	Yes
43	1-MM-IR-50	EFW Bldg Train B Instrument Rack 50	Installed/ Energized	Installed/ Energized	Location for vital EFW controls	FP 71708	EFW Pumphouse, 28' elevation, East side	Yes
43	1-FW-FT-4224-4	EFW FLOW TRANSMITTER SIGNAL TO MOV-4224A	Energized	Energized	Flow signal to MOV-4224A, SG-B. Located on MM-IR-49. Evaluated under that component.	PID-1-FW-D20688		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
44	1-FW-FT-4224-2	EFW FLOW TRANSMITTER SIGNAL TO MOV-4224B & MCB INDICATION	Energized	Energized	Flow signal to MOV-4224B, SG-B. Located on MM-IR-50. Evaluated under that component.	PID-1-FW-D20688		No
45	1-FW-FV-4224A	EFW FLOW DISCHARGE CONTROL MOV TO SG-B	Open	Open	MOV is NO. No credit taken for Train A MOVs, using Train B MOVs.	PID-1-FW-D20688		No
46	1-FW-FV-4224B	EFW FLOW DISCHARGE CONTROL MOV TO SG-B	Open	Open/throttled		PID-1-FW-D20688	EFW Pumphouse, 28' elevation, East side	Yes
47	1-FW-FT-4234-4	EFW FLOW TRANSMITTER SIGNAL TO MOV-4234B	Energized	Energized	Flow signal to MOV-4234B, SG-C. Located on MM-IR-50. Evaluated under that component.	PID-1-FW-D20688		No
48	1-FW-FT-4234-2	EFW FLOW TRANSMITTER SIGNAL TO MOV-4234A & MCB INDICATION	Energized	Energized	Flow signal to MOV-4234A, SG-C. Located on MM-IR-49. Evaluated under that component.	PID-1-FW-D20688		No
49	1-FW-FV-4234A	EFW FLOW DISCHARGE CONTROL MOV TO SG-C	Open	Open	MOV is NO. No credit taken for Train A MOVs, using Train B MOVs.	PID-1-FW-D20688		No
50	1-FW-FV-4234B	EFW FLOW DISCHARGE CONTROL MOV TO SG-C	Open	Open/throttled	MOV is NO and functions to close/throttle to support EFW flow control to SG-C	PID-1-FW-D20688	EFW Pumphouse, 28' elevation, East side	Yes
51	1-FW-FT-4244-4	EFW FLOW TRANSMITTER SIGNAL TO MOV-4244A	Energized	Energized	Flow signal to MOV-4244A, SG-D. Located on MM-IR-49. Evaluated under that component.	PID-1-FW-D20688		No
52	1-FW-FT-4244-2	EFW FLOW TRANSMITTER SIGNAL TO MOV-4244B & MCB INDICATION	Energized	Energized	Flow signal to MOV-4244B, SG-D. Located on MM-IR-50. Evaluated under that component.	PID-1-FW-D20688		No
53	1-FW-FV-4244A	EFW FLOW DISCHARGE CONTROL MOV TO SG-D	Open	Open	MOV is NO. No credit taken for Train A MOVs, using Train B MOVs.	PID-1-FW-D20688		No
54	1-FW-FV-4244B	EFW FLOW DISCHARGE CONTROL MOV TO SG-D	Open	Open/throttled	MOV is NO and functions to close/throttle to support EFW flow control to SG-D	PID-1-FW-D20688	EFW Pumphouse, 28' elevation, West side	Yes
55	1-FW-FT-4214-4	EFW FLOW TRANSMITTER SIGNAL TO MOV-4214B	Energized	Energized	Flow signal to MOV-4214B, SG-A. Located on MM-IR-50. Evaluated under that component.	PID-1-FW-D20688		No
56	1-FW-FT-4214-2	EFW FLOW TRANSMITTER SIGNAL TO MOV-4214A & MCB INDICATION	Energized	Energized	Flow signal to MOV-4214A, SG-A. Located on MM-IR-49. Evaluated under that component.	PID-1-FW-D20688		No
57	1-FW-FV-4214A	EFW FLOW DISCHARGE CONTROL MOV TO SG-A	Open	Open	MOV is NO. No credit taken for Train A MOVs, using Train B MOVs.	PID-1-FW-D20688		No
58	1-FW-FV-4214B	EFW FLOW DISCHARGE CONTROL MOV TO SG-A	Open	Open/throttled	MOV is NO and functions to close/throttle to support EFW flow control to SG-A	PID-1-FW-D20688	EFW Pumphouse, 28' elevation, West side	Yes
59	1-FW-V-76	EFW TO SG-A STOP CHECK	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20686		No
60	1-FW-V-30	MAIN FEEDWATER ISOLATION VALVE, SG-A	Open	Closed	Isolation valve NO, valve functions to close and remain closed. Valve is AOV piston operated. FAI	PID-1-FW-D20686	West Pipechase, 12' elev., South end	Yes

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
61	1-FW-FY-V3-A1	FWIV A TRAIN A CLOSE SOV	Deen./Open	Energ./Closed	Energizes to drain hydraulic oil/ close valve. Eval'd under FW-V-30.	1-NHY-310844 E87/6l		No
62	1-FW-FY-V4-B1	FWIV A TRAIN B CLOSE SOV	Deen./Open	Energ./Closed	Energizes to drain hydraulic oil/ close valve. Eval'd under FW-V-30.	1-NHY-310844 E88/6g		No
63	1-FW-V-82	EFW TO SG-B STOP CHECK	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20686		No
64	1-FW-V-39	MAIN FEEDWATER ISOLATION VALVE, SG-B	Open	Closed	Isolation valve NO, valve functions to close and remain closed. Valve is AOV piston operated. FAI	PID-1-FW-D20686	East Pipechase, 12' elev., South end	Yes
65	1-FW-FY-V3-A2	FWIV B TRAIN A CLOSE SOV	Deen./Open	Energ./Closed	Energizes to drain hydraulic oil/ close valve. Eval'd under FW-V-39.	1-NHY-310844 E87/6m		No
66	1-FW-FY-V4-B2	FWIV B TRAIN B CLOSE SOV	Deen./Open	Energ./Closed	Energizes to drain hydraulic oil/ close valve. Eval'd under FW-V-39.	1-NHY-310844 E88/6h		No
67	1-FW-V-88	EFW TO SG-C STOP CHECK	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20686		No
68	1-FW-V-48	MAIN FEEDWATER ISOLATION VALVE, SG-C	Open	Closed	Isolation valve NO, valve functions to close and remain closed. Valve is AOV piston operated. FAI	PID-1-FW-D20686	East Pipechase, 12' elev., South end	Yes
69	1-FW-FY-V3-A3	FWIV C TRAIN A CLOSE SOV	Deen./Open	Energ./Closed	Energizes to drain hydraulic oil/ close valve. Eval'd under FW-V-48.	1-NHY-310844 E87/6n		No
70	1-FW-FY-V4-B3	FWIV C TRAIN B CLOSE SOV	Deen./Open	Energ./Closed	Energizes to drain hydraulic oil/ close valve. Eval'd under FW-V-48.	1-NHY-310844 E88/6j		No
71	1-FW-V-94	EFW TO SG-D STOP CHECK	Locked Open	Open	Manual valve, excluded	PID-1-FW-D20686		No
72	1-FW-V-57	MAIN FEEDWATER ISOLATION VALVE, SG-D	Open	Closed	Isolation valve NO, valve functions to close and remain closed. Valve is AOV piston operated. FAI	PID-1-FW-D20686	West Pipechase, 12' elev., South end	Yes
73	1-FW-FY-V3-A4	FWIV D TRAIN A CLOSE SOV	Deen./Open	Energ./Closed	Energizes to drain hydraulic oil/ close valve. Eval'd under FW-V-57.	1-NHY-310844 E87/6p		No
74	1-FW-FY-V4-B4	FWIV D TRAIN B CLOSE SOV	Deen./Open	Energ./Closed	Energizes to drain hydraulic oil/ close valve. Eval'd under FW-V-57.	1-NHY-310844 E88/6k		No
75	CO-TK-25	CST CONDESATE STORAGE TANK	>212K gal	>212K gal	Suction source for EFW / SG Inventory Control	PID-1-CO-D20426	In yard, Southeast corner of Turbine Bldg	Yes
76	1-MS-V-5	MS-PV-3001 ISOLATION VALVE	Locked Open	Open	Manual valve, excluded	PID-MS-D20580		No
77	1-MS-PV-3001	ATMOS STEAM DUMP VALVE for SG-A	Closed	Open/throttled	Valve function is to open to control SG steam pressure and RCS cool down rate. ASDVs operated remotely from CR or locally by manual action as needed.	PID-MS-D20580	West Pipechase, 28' elev., South end	Yes
78	1-MS-PV-3001-N2	ATMOS STEAM DUMP VALVE A N2 BOTTLE STORAGE	Installed	Installed		PID-1-IA-B20647	West Pipechase, 28' elev., South end	Yes
79	MM-742A	AIR CYLINDER BACKUP SUPPLY TO ASDV PV-3001 and MS-V-393	Lined up	Lined up	Bottled air to back-up the instrument air system (WPC). Eval'd as part of 1-MS-PV-3001-N2	PID-1-IA-B20647		No
80	MM-742B	AIR CYLINDER BACKUP SUPPLY TO ASDV PV-3001 and MS-V-393	Lined up	Lined up	Bottled air to back-up the instrument air system (WPC). Eval'd as part of 1-MS-PV-3001-N2	PID-1-IA-B20647		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
81	MM-742C	AIR CYLINDER BACKUP SUPPLY TO ASDV PV-3001 and MS-V-393	Lined up	Lined up	Bottled air to back-up the instrument air system (WPC). Eval'd as part of 1-MS-PV-3001-N2	PID-1-IA-B20647		No
82	MS-PCV-3001	PRESSURE REGULATOR VALVE IN BACKUP AIR (N2) SYSTEM	SET @ 85-90 PSIG	SET @ 85-90 PSIG	Air pressure controllers and SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
83	MS-PY-3001-1	AIR CONTROL SOV TO ASDV 3001	SET @ 85-90 PSIG	SET @ 85-90 PSIG	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
84	MS-PY-3001-2	AIR CONTROL SOV TO ASDV 3001	Energ./Open	Energ./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
85	MS-PY-3001-3	AIR CONTROL SOV TO ASDV 3001	Deen./Closed	Energ./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
86	MS-PY-3001-4	AIR CONTROL SOV TO ASDV 3001	Energ./Closed	Deen./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
87	MS-PY-3001-5	AIR CONTROL SOV TO ASDV 3001	Deen./Closed	Energ./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
88	MS-PY-3001-6	AIR CONTROL SOV TO ASDV 3001	Energ./Closed	Deen./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
89	MS-FY-393	AIR CONTROL SOV TO EFW STEAM VALVE V-393	Energ./Open	Deen./Closed	Air pressure controllers and SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
90	MS-FY-395A	AIR CONTROL SOV TO EFW STEAM VALVE V-395	Deen./Open	Energ./Closed	Air pressure controllers and SOVs need to function in Phase 1. Eval'd as part of MS-V-395.	PID-1-IA-B20647		No
91	1-MS-V-49	MS-PV-3004 ISOLATION VALVE	Locked Open	Open	Manual valve, excluded	PID-MS-D20580		No
92	1-MS-PV-3004	ATMOS STEAM DUMP VALVE for SG-C	Closed	Open/throttled	Valve function is to open to control SG steam pressure and RCS cool down rate. ASDVs operated remotely from CR or locally by manual action as needed.	PID-MS-D20580	West Pipechase, 28' elev., South end	Yes
93	1-MS-PV-3004-N2	ATMOS STEAM DUMP VALVE D N2 BOTTLE STORAGE	Installed	Installed		PID-1-IA-B20647	West Pipechase, 28' elev., South end	Yes
94	MM-745A	AIR CYLINDER BACKUP SUPPLY TO ASDV PV-3004	Lined up	Lined up	Bottled air to back-up the instrument air system (WPC). Eval'd as part of 1-MS-PV-3004-N2	PID-1-IA-B20647		No
95	MM-745B	AIR CYLINDER BACKUP SUPPLY TO ASDV PV-3004	Lined up	Lined up	Bottled air to back-up the instrument air system (WPC). Eval'd as part of 1-MS-PV-3004-N2	PID-1-IA-B20647		No
96	MS-PCV-3004	PRESSURE REGULATOR VALVE IN BACKUP AIR (N2) SYSTEM	SET @ 90 PSIG	SET @ 90 PSIG	Air pressure controllers and SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
97	MS-PY-3004-1	AIR CONTROL SOV TO ASDV 3004	Energ./Open	Energ./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
98	MS-PY-3004-2	AIR CONTROL SOV TO ASDV 3004	Deen./Closed	Energ./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
99	MS-PY-3004-3	AIR CONTROL SOV TO ASDV 3004	Energ./Closed	Deen./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
100	MS-PY-3004-4	AIR CONTROL SOV TO ASDV 3004	Deen./Closed	Energ./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
101	MS-PY-3004-5	AIR CONTROL SOV TO ASDV 3004	Energ./Closed	Deen./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
102	MS-PY-3004-6	AIR CONTROL SOV TO ASDV 3004	Energ./Open	Deen./Closed	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
103	1-MS-V-21	MS-PV-3002 ISOLATION VALVE	Locked Open	Open	Manual valve, excluded	PID-MS-D20581		No
104	1-MS-PV-3002	ATMOS STEAM DUMP VALVE for SG-B	Closed	Open/throttled	Valve function is to open to control SG steam pressure and RCS cool down rate. ASDVs operated remotely from CR or locally by manual action as needed.	PID-MS-D20581	East Pipechase, 28' elev., South end	Yes
105	1-MS-PV-3002-N2	ATMOS STEAM DUMP VALVE B N2 BOTTLE STORAGE	Installed	Installed		PID-1-IA-B20647	East Pipechase, 28' elev., South end	Yes
106	MM-743A	AIR CYLINDER BACKUP SUPPLY TO ASDV PV-3002 and MS-V-394	Lined up	Lined up	Bottled air to back-up the instrument air system (EPC). Eval'd as part of 1-MS-PV-3002-N2	PID-1-IA-B20647		No
107	MM-743B	AIR CYLINDER BACKUP SUPPLY TO ASDV PV-3002 and MS-V-394	Lined up	Lined up	Bottled air to back-up the instrument air system (EPC). Eval'd as part of 1-MS-PV-3002-N2	PID-1-IA-B20647		No
108	MM-743C	AIR CYLINDER BACKUP SUPPLY TO ASDV PV-3002 and MS-V-394	Lined up	Lined up	Bottled air to back-up the instrument air system (EPC). Eval'd as part of 1-MS-PV-3002-N2	PID-1-IA-B20647		No
109	MS-PCV-3002	PRESSURE CONTROL VALVE IN BACKUP AIR (N2) SYSTEM	SET @ 85-90 PSIG	SET @ 85-90 PSIG	Air pressure controllers and SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
110	MS-PY-3002-1	AIR CONTROL SOV TO ASDV 3002	Energ./Open	Energ./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
111	MS-PY-3002-2	AIR CONTROL SOV TO ASDV 3002	Deen./Closed	Energ./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
112	MS-PY-3002-3	AIR CONTROL SOV TO ASDV 3002	Energ./Closed	Deen./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
113	MS-PY-3002-4	AIR CONTROL SOV TO ASDV 3002	Deen./Closed	Energ./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
114	MS-PY-3002-5	AIR CONTROL SOV TO ASDV 3002	Energ./Closed	Deen./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
115	MS-PY-3002-6	AIR CONTROL SOV TO ASDV 3002	Energ./Open	Deen./Closed	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
116	MS-FY-394A	AIR CONTROL SOV TO EFW STEAM VALVE V-394	Deen./Closed	Energ./Open	Air pressure controllers and SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
117	MS-FY-394B	AIR CONTROL SOV TO EFW STEAM VALVE V-394	Energ./Open	Deen./Closed	Air pressure controllers and SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
118	MS-FY-395B	AIR CONTROL SOV TO EFW STEAM VALVE V-395	Deen./Open	Energ./Closed	Air pressure controllers and SOVs need to function in Phase 1. Eval'd as part of MS-V-395.	PID-1-IA-B20647		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
119	1-MS-V-35	MS-PV-3003 ISOLATION VALVE	Locked Open	Open	Manual valve, excluded	PID-MS-D20581		No
120	1-MS-PV-3003	ATMOS STEAM DUMP VALVE for SG-C	Closed	Open/throttled	Valve function is to open to control SG steam pressure and RCS cool down rate. ASDVs operated remotely from CR or locally by manual action as needed.	PID-MS-D20581	East Pipechase, 28' elev., South end	Yes
121	1-MS-PV-3003-N2	ATMOS STEAM DUMP VALVE C N2 BOTTLE STORAGE	Installed	Installed		PID-1-IA-B20647	East Pipechase, 28' elev., South end	Yes
122	MM-744A	AIR CYLINDER BACKUP SUPPLY TO ASDV PV-3003	Lined up	Lined up	Bottled air to back-up the instrument air system (EPC). Eval'd as part of 1-MS-PV-3003-N2	PID-1-IA-B20647		No
123	MM-744B	AIR CYLINDER BACKUP SUPPLY TO ASDV PV-3003	Lined up	Lined up	Bottled air to back-up the instrument air system (EPC). Eval'd as part of 1-MS-PV-3003-N2	PID-1-IA-B20647		No
124	MS-PCV-3003	PRESSURE REGULATOR VALVE IN BACKUP AIR (N2) SYSTEM	SET @ 90 PSIG	SET @ 90 PSIG	Air pressure controllers and SOVs need to function in Phase 1. Eval'd as part of 1-MS-PV-3003-N2.	PID-1-IA-B20647		No
125	MS-PY-3003-1	AIR CONTROL SOV TO ASDV 3003	Energ./Open	Energ./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
126	MS-PY-3003-2	AIR CONTROL SOV TO ASDV 3003	Deen./Closed	Energ./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
127	MS-PY-3003-3	AIR CONTROL SOV TO ASDV 3003	Energ./Closed	Deen./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
128	MS-PY-3003-4	AIR CONTROL SOV TO ASDV 3003	Deen./Closed	Energ./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
129	MS-PY-3003-5	AIR CONTROL SOV TO ASDV 3003	Energ./Closed	Deen./Open	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
130	MS-PY-3003-6	AIR CONTROL SOV TO ASDV 3003	Energ./Open	Deen./Closed	Used only during M/A station use. SOVs need to function in Phase 1.	PID-1-IA-B20647		Yes
131	1-MS-V-86	MAIN STEAM ISOLATION VALVE SG-A	Open	Closed	Not required, per ESEL screening requirements	PID-MS-D20583	West Pipechase, 28' elev., North end	No
132	1-MS-FY-86A-1	MSIV 86 TRAIN A FAST CLOSE SOLENOID	Deen./Closed	Energ./Open	Solenoid functions to drain hydraulic oil to reservoir & close valve. MSIVs screend out of ESEL.	NHY-310841 sh. E87/14		No
133	1-MS-FY-86B-1	MSIV 86 TRAIN B FAST CLOSE SOLENOID	Deen./Closed	Energ./Open	Solenoid functions to drain hydraulic oil to reservoir & close valve. MSIVs screend out of ESEL.	NHY-310841 sh. E88/14		No
134	1-MS-V-204	MAIN STEAM ISOLATION VALVE BY PASS VALVE SG-A	Deen./ Locked Closed	Deen./ Locked Closed	Valve is MOV, normally Closed. Remains closed	PID-MS-D20583		No
135	1-MS-V-6	MAIN STEAM SAFETY VALVE SG-A	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20580		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
136	1-MS-V-7	MAIN STEAM SAFETY VALVE SG-A	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20580		No
137	1-MS-V-8	MAIN STEAM SAFETY VALVE SG-A	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20580		No
138	1-MS-V-9	MAIN STEAM SAFETY VALVE SG-A	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20580		No
139	1-MS-V-10	MAIN STEAM SAFETY VALVE SG-A	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20580		No
140	1-MS-V-88	MAIN STEAM ISOLATION VALVE SG-B	Open	Closed	Not required, per ESEL screening requirements	PID-MS-D20583	East Pipechase, 28' elev., North end	No
141	1-MS-FY-88A-2	MSIV 88 TRAIN A FAST CLOSE SOLENOID	Deen./Closed	Energ./Open	Solenoid functions to drain hydraulic oil to reservoir & close valve. MSIVs screend out of ESEL.	NHY-310841 sh. E2T/12		No
142	1-MS-FY-88B-2	MSIV 88 TRAIN B FAST CLOSE SOLENOID	Deen./Closed	Energ./Open	Solenoid functions to drain hydraulic oil to reservoir & close valve. MSIVs screend out of ESEL.	NHY-310841 sh. E2U/12		No
143	1-MS-V-205	MAIN STEAM ISOLATION VALVE BY PASS VALVE SG-B	Deen./ Locked Closed	Deen./ Locked Closed	Valve is MOV, normally Closed. Remains closed	PID-MS-D20583		No
144	1-MS-V-22	MAIN STEAM SAFETY VALVE SG-B	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20581		No
145	1-MS-V-23	MAIN STEAM SAFETY VALVE SG-B	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20581		No
146	1-MS-V-24	MAIN STEAM SAFETY VALVE SG-B	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20581		No
147	1-MS-V-25	MAIN STEAM SAFETY VALVE SG-B	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20581		No
148	1-MS-V-26	MAIN STEAM SAFETY VALVE SG-B	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20581		No
149	1-MS-V-90	MAIN STEAM ISOLATION VALVE SG-C	Open	Closed	Not required, per ESEL screening requirements	PID-MS-D20583	East Pipechase, 28' elev., North end	No
150	1-MS-FY-90A-3	MSIV 90 TRAIN A FAST CLOSE SOLENOID	Deen./Closed	Energ./Open	Solenoid functions to drain hydraulic oil to reservoir & close valve. MSIVs screend out of ESEL.	NHY-310841 sh. E2T/14		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
151	1-MS-FY-90B-3	MSIV 90 TRAIN B FAST CLOSE SOLENOID	Deen./Closed	Energ./Open	Solenoid functions to drain hydraulic oil to reservoir & close valve. MSIVs screend out of ESEL.	NHY-310841 sh. E2U/14		No
152	1-MS-V-206	MAIN STEAM ISOLATION VALVE BY PASS VALVE SG-C	Deen./ Locked Closed	Deen./ Locked Closed	Valve is MOV, normally Closed. Remains closed	PID-MS-D20583		No
153	1-MS-V-36	MAIN STEAM SAFETY VALVE SG-C	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20581		No
154	1-MS-V-37	MAIN STEAM SAFETY VALVE SG-C	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20581		No
155	1-MS-V-38	MAIN STEAM SAFETY VALVE SG-C	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20581		No
156	1-MS-V-39	MAIN STEAM SAFETY VALVE SG-C	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20581		No
157	1-MS-V-40	MAIN STEAM SAFETY VALVE SG-C	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20581		No
158	1-MS-V-92	MAIN STEAM ISOLATION VALVE SG-D	Open	Closed	Not required, per ESEL screening requirements	PID-MS-D20583	West Pipechase, 28' elev., North end	No
159	1-MS-FY-92A-4	MSIV 92 TRAIN A FAST CLOSE SOLENOID	Deen./Closed	Energ./Open	Solenoid functions to drain hydraulic oil to reservoir & close valve. MSIVs screend out of ESEL.	NHY-310841 sh. E87/18		No
160	1-MS-FY-90B-4	MSIV 92 TRAIN B FAST CLOSE SOLENOID	Deen./Closed	Energ./Open	Solenoid functions to drain hydraulic oil to reservoir & close valve. MSIVs screend out of ESEL.	NHY-310841 sh. E88/9		No
161	1-MS-V-207	MAIN STEAM ISOLATION VALVE BY PASS VALVE SG-D	Deen./ Locked Closed	Deen./ Locked Closed	Valve is MOV, normally Closed. Remains closed	PID-MS-D20583		No
162	1-MS-V-50	MAIN STEAM SAFETY VALVE SG-D	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20580		No
163	1-MS-V-51	MAIN STEAM SAFETY VALVE SG-D	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20580		No
164	1-MS-V-52	MAIN STEAM SAFETY VALVE SG-D	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20580		No
165	1-MS-V-53	MAIN STEAM SAFETY VALVE SG-D	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20580		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	**Equip ID**	**Description**	**Equipment Normal State**	**Equipment Desired State**	**Notes**	**Reference**	**Plant Location**	**Include on ESEL?**
166	1-MS-V-54	MAIN STEAM SAFETY VALVE SG-D	Closed	Closed	Safety valve NC / remain closed, no external control, not required for FLEX strategy, excluded	PID-MS-D20580		No
FLEX ESEL - Decay Heat Removal via SG - EFW Turbine Driven Pump (TDEFW), ASDVs, MSIVs - Electrical								
167	1-EDE-B-1-A	VITAL 125VDC BATTERY A	Float Charge	Discharge	Provides power to vital shutdown panels & loads	1-NHY-310042	Train A Ess switchgear 21' elev., East end	Yes
168	1-EDE-CP-227	VITAL 125VDC BATTERY BUS 1600A SUPPLY FUSES (2)	Bolted in, connected	Bolted in, connected	Provides power from Battery to DC Bus switchgear	1-NHY-310042	Train A Ess swgr 21' elev., W. of MCC-111	Yes
169	1-EDE-SWG-11-A-DM3	125V DC BUS 11A NORMAL BATTERY SUPPLY BREAKER	Closed	Closed	Evaluated as part of 1-EDE-SWG-11-A	1-NHY-310042		No
170	1-EDE-SWG-11-A	VITAL 125VDC BUS A	Energized	Energized		1-NHY-310042	Train A Ess switchgear 21' elev., East end	Yes
171	1-EDE-SWG-11-A-DM8	VITAL 125V DC PANEL 112A SUPPLY BREAKER	Closed	Closed	Evaluated as part of 1-EDE-SWG-11-A	1-NHY-310042		No
172	1-EDE-PP-112-A	VITAL 125V DC PANEL 112A	Energized	Energized		1-NHY-310042	Train A Ess swgr 21'	Yes
173	1-EDE-PP-112-A-CK6	FWIV 30, 39, 48, 57 TRAIN A SOLENOID POWER	On	On	Ability to close FWIVs and ensure EFW flows only to SGs. Evaluated as part of 1-EDE-PP-112-A	NHY-310107 E87a, NHY-310844 E87/6		No
174	1-EDE-CP-248	TRAIN A AUX RELAY PANEL <GN9> IN TRAIN A SWITCHGEAR	Energized	Energized		NHY-310236 GN9a,	Train A Ess swgr 21' elev., W. of MCC-111	Yes
175	FW-IX-A	FW-V-30 AUX RELAY	De-energized	Energized	Energizes to close FWIV. Evaluated as part of EDE-CP-248	NHY-310844 E87/6l		No
176	FW-IX-3A	FW-V-39 AUX RELAY	De-energized	Energized	Energizes to close FWIV. Evaluated as part of EDE-CP-248	NHY-310844 E87/6m		No
177	FW-IX-6A	FW-V-48 AUX RELAY	De-energized	Energized	Energizes to close FWIV. Evaluated as part of EDE-CP-248	NHY-310844 E87/6n		No
178	FW-IX-9A	FW-V-57 AUX RELAY	De-energized	Energized	Energizes to close FWIV. Evaluated as part of EDE-CP-248	NHY-310844 E87/6p		No
179	1-EDE-PP-112-A-CK12	CC-V-32 SF HX PCCW COOLING AOV	On	On	Ability to align Train A CC to SF HX 15A. Evaluated as part of 1-EDE-PP-112-A.	NHY-310107 E87a, NHY-310895 E87/12		No
180	1-EDE-PP-112-A-CK13	MS-V-393, 394, & 395 TRAIN A SOLENOID POWER	On	On	Ability to open TDEFW steam supply AOVs. Evaluated as part of 1-EDE-PP-112-A	NHY-310107 E87a, NHY-310841 E87/13		No
181	1-EDE-PP-112-A-CK14	MS-V-86, MSIV A, TRAIN A SOLENOID POWER	On	On	Energize to close MSIV. Evaluated as part of 1-EDE-PP-112-A.	NHY-310107 E87a, NHY-310841 E87/14		No
182	1-MS-CP-184, K103	MSIV A AUX RELAY K103	De-energized	Energized	Energizes to actuate closing solenoid. Evaluated as part of 1-MS-CP-184.	NHY-310841 E87/14a		No
183	1-EDE-PP-112-A-CK18	MS-V-92, MSIV D, TRAIN A SOLENOID POWER	On	On	Energize to close MSIV. Evaluated as part of 1-EDE-PP-112-A.	NHY-310107 E87a, NHY-310841 E87/18		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
184	1-MS-CP-184, K111	MSIV D AUX RELAY K111	De-energized	Energized	Energizes to actuate closing solenoid. Evaluated as part of 1-MS-CP-184.	NHY-310841 E87/18a		No
185	1-EDE-PP-112-A-CK19	RC-PCV-456A, PORV A, SOLENOID POWER	On	On	Energizes to open PORV. Required WOG FLEX strategy equipment. Evaluated as part of 1-EDE-PP-112-A	NHY-310107 E87a, NHY-310882 E87/19		No
186	1-EDE-MM-578	TRAIN A FUSE PANEL, EDE-MM-578 <E4A>	Installed, energized	Installed, energized		NHY-310236 E4Aa	Train A Ess swgr 21' elev., W. of MCC-111	Yes
187	1-EDE-MM-578-FU11 & 12	PORV A FUSES, FU11 & FU12, AT EDE-MM-578 <E4A>	Installed, connected	Installed, connected	Evaluated as part of 1-EDE-MM-578	NHY-310882 E87/19		No
188	1-EDE-MCC-511	MOTOR CONTROL CENTER E511	Energized	Energized		1-NHY-310023	DG A Bldg, Engine room, North side	Yes
189	PORV A 42 DEVICE	125V DC CONTACTOR AT MCC-511 <J3M>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-511	NHY-310882 E87/19		No
190	1-EDE-SWG-11-A-DM0	VITAL 125V DC PANEL 113A SUPPLY BREAKER	Closed	Closed	Evaluated as part of 1-EDE-SWG-11-A	1-NHY-310042		No
191	1-EDE-PP-113-A	VITAL 125V DC PANEL 113A	Energized	Energized		1-NHY-310042	A Ess swgr, at DC Bus	Yes
192	1-EDE-PP-113-A-CK3	CC-TV-2171-1 & 2 SOLENOID POWER	On	On	Ability to control Train A PCCW temperature. Evaluated as part of 1-EDE-PP-113-A.	NHY-310107 E2Ta, NHY-310895 E2T/3		No
193	1-EDE-PP-113-A-CK8	MS-PV-3001, ASDV A, SOLENOID 1,2, 3, & 4 POWER	On	On	Ability to control ASDV with M/A station or by using jog control. Evaluated as part of 1-EDE-PP-113-A.	NHY-310107 E2Ta, NHY-310841 E2T/8		No
194	1-EDE-PP-113-A-CK10	MS-PV-3003, ASDV C SOLENOID 1,2, 3, & 4 POWER	On	On	Ability to control ASDV with M/A station or by using jog control. Evaluated as part of 1-EDE-PP-113-A.	NHY-310107 E2Ta, NHY-310841 E2T/10		No
195	1-EDE-PP-113-A-CK12	MS-V-88, MSIV B, TRAIN A SOLENOID POWER	On	On	Energize to close MSIV. Evaluated as part of 1-EDE-PP-113-A.	NHY-310107 E2Ta, NHY-310841 E2T/12		No
196	1-MS-CP-182, K103	MSIV B AUX RELAY K103	De-energized	Energized	Energizes to actuate closing solenoid Evaluated as part of 1-MS-CP-182.	NHY-310841 E2T/12a		No
197	1-EDE-PP-113-A-CK14	MS-V-90, MSIV C, TRAIN A SOLENOID POWER	On	On	Energize to close MSIV. Evaluated as part of 1-EDE-PP-112-A.	NHY-310107 E2Ta, NHY-310841 E2T/14		No
198	1-MS-CP-182, K111	MSIV C AUX RELAY K111	De-energized	Energized	Energizes to actuate closing solenoid Evaluated as part of 1-MS-CP-182.	NHY-310841 E2T/14a		No
199	1-EDE-PP-113-A-CK15	MS-PV-3002, ASDV B SOLENOID 5 & 6 POWER	On	On	Ability to control ASDV by using jog control. Evaluated as part of 1-EDE-PP-112-A.	NHY-310107 E2Ta, NHY-310841 E2T/15		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
200	1-EDE-PP-113-A-CK16	MS-PV-3004, ASDV D SOLENOID 5 & 6 POWER	On	On	Ability to control ASDV by using jog control. Evaluated as part of 1-EDE-PP-113-A.	NHY-310107 E2Ta, NHY-310841 E2T/16		No
201	1-EDE-SWG-11-A-DM6	EDE-I-1-A, VITAL INVERTER A DC SUPPLY BREAKER	Closed	Closed	Evaluated as part of 1-EDE-SWG-11-A	1-NHY-310042		No
202	1-EDE-I-1-A	VITAL INVERTER A	Energized	Energized	Provides power to vital shutdown panels & instruments	1-NHY-310042	Train A Ess swgr 21' elev., East end	Yes
203	1-EDE-I-1-A-2CB	VITAL INVERTER A LOCAL DC INPUT BREAKER	On	On	Evaluated as part of 1-EDE-i-1-A	1-NHY-310105 D27d		No
204	1-EDE-I-1-A-3CB	VITAL INVERTER A LOCAL INVERTER SECTION DC INPUT BREAKER	On	On	Evaluated as part of 1-EDE-i-1-A	1-NHY-310105 D27d		No
205	1-EDE-I-1-A-1T	VITAL INVERTER A 7.5 KVA INVERTER TRANSFORMER	Energized	Energized	Evaluated as part of 1-EDE-i-1-A	1-NHY-310105 D27d		No
206	1-EDE-I-1-A-2T	VITAL INVERTER A 7.5 KVA POWER PANEL TRANSFORMER	Energized	Energized	Evaluated as part of 1-EDE-i-1-A	1-NHY-310105 D27d		No
207	1-EDE-I-1-A-4CB	VITAL INVERTER A LOCAL INVERTER SECTION AC OUTPUT BREAKER	On	On	Evaluated as part of 1-EDE-i-1-A	1-NHY-310105 D27d		No
208	1-EDE-I-1-A-RR	VITAL INVERTER A INTERNAL RELAYS & RESISTORS	Various energ./ de-energ. states	Various energ./ de-energ. states	Relays 1CSR,4CB, CSRT, RR, ACL & 8R resistors must function correctly. Evaluated as part of 1-EDE-i-1-A.	1-NHY-310105 D27d		No
209	1-EDE-PP-1-A-CK15	VITAL POWER PANEL 1A SUPPLY BREAKER FROM INVERTER A	On	On		1-NHY-310105 D27e		No
210	1-EDE-PP-1-A	VITAL POWER PANEL 1A	Energized	Energized		NHY-310105 E01a	Train A Ess swgr 21'	Yes
211	1-EDE-PP-1-A-CK1	CHANNEL I NI CABINET CONTROL POWER	On	On	Operator Info only, non required safe shutdown load	NHY-310105 E01a NHY-310943 FC6b		No
212	1-EDE-PP-1-A-CK3	CHANNEL I NI CABINET INSTRUMENT POWER	On	On	Operator Info only, non required safe shutdown load	NHY-310105 E01a NHY-310943 FC6b		No
213	1-EDE-PP-1-A-CK9	CHANNEL I PROTECTION CABINET, MM-CP-1, POWER	On	On	Required safe shutdown FLEX instrumentation. Evaluated as part of 1-EDE-PP-1-A.	NHY-310105 E01a NHY-310942 E01/9		No
214	1-EDE-SWG-11-A-DM7	EDE-I-1-E, VITAL INVERTER E DC SUPPLY BREAKER	Closed	Closed	Evaluated as part of 1-EDE-SWG-11-A	1-NHY-310042		No
215	1-EDE-I-1-E	VITAL INVERTER E	Energized	Energized	Provides power to vital shutdown panels & instruments	1-NHY-310042	Train A Ess swgr 21' elev., East end	Yes
216	1-EDE-I-1-E-A13-F1	VITAL INVERTER E DC SUPPLY FUSES A13-F1 & A13-F2	Installed, connected	Installed, connected	Evaluated as part of 1-EDE-i-1-E	1-NHY-310105 DD3h		No
217	1-EDE-I-1-E-CB131	VITAL INVERTER E LOCAL DC INPUT BREAKER	On	On	Evaluated as part of 1-EDE-i-1-E	1-NHY-310105 DD3h		No
218	1-EDE-I-1-E-CB133	VITAL INVERTER E LOCAL AC OUTPUT BREAKER	On	On	Evaluated as part of 1-EDE-i-1-E	1-NHY-310105 DD3h		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
219	1-EDE-I-1-E-RR	VITAL INVERTER E INTERNAL RELAYS, TRANSFORMERS, FUSES, CAPACITORS, & LOGIC BOARDS	Various energ./ de-energ. States	Various energ./ de-energ. States	Internal components must function correctly. Evaluated as part of EDE-I-1-E	1-NHY-310105 DD3g & h		No
220	1-EDE-CP-1-E - E1Y	VITAL INVERTER E STATIC SWITCH PANEL TRANSFORMERS, RELAYS, & LOGIC BOARDS	Various energ./ de-energ. States	Various energ./ de-energ. States	Internal components must function correctly	1-NHY-310105 DD3f		Yes
221	1-EDE-PP-1-E - NORM-BKR	POWER PANEL 1E NORMAL SUPPLY BKR FROM INVERTER	On	On	Evaluated as part of 1-EDE-PP-1-E	1-NHY-310105 DD3e		No
222	1-EDE-PP-1-E	VITAL POWER PANEL 1E	Energized	Energized		NHY-310105 EH9a	Train A Ess swgr, NE	Yes
223	1-EDE-PP-1-E - CK1	VITAL BOP CAB 152A, MM-CP-152-A, SUPPLY POWER	On	On	Operator Info only, non required safe shutdown FLEX instruments.	1-NHY-310952 EH9/1		No
224	1-EDE-PP-1-E - CK7	TRAIN A HAGEN CONTROLLER POWER	On	On	Operator use only, non required controls for letdown, charging, seal injection, & Train A RHR	1-NHY-310940 EH9/7		No
225	1-EDE-PP-1-E - CK19	VITAL BOP CAB 297A, MM-CP-297-A, SUPPLY POWER	On	On	Cabinet provides power to required safe shutdown FLEX instruments. Evaluated as part of 1-EDE-PP-1-E.	1-NHY-310952 EH9/19		No
226	1-EDE-PP-1-E -	ED-PP-12-E SUPPLY BREAKER	On	On	Provides power to vital control	1-NHY-310105 EH9a		No
227	1-ED-PP-12-E	NON VITAL POWER PANEL 12E	Energized	Energized		NHY-310105 EH8a	Train A Ess swgr, SE end	Yes
228	1-ED-PP-12-E - CK10	CONTROL CAB 8, MM-CP-8, SUPPLY BREAKER	On	On	Provides power to CHAN IV vital controls for operators. Evaluated as part of 1-ED-PP-12-E.	1-NHY-310105 EH8a		No
229	1-ED-PP-12-E - CK11	CONTROL CAB 8, MM-CP-6, SUPPLY BREAKER	On	On	Provides power to CHAN II vital controls for operators. Evaluated as part of 1-ED-PP-12-E.	1-NHY-310105 EH8a		No
230	1-EDE-PP-1-E - CK13	EDE-PP-11-E SUPPLY BREAKER	On	On	Provides power to vital shutdown FLEX instruments. Evaluated as part of 1-EDE-PP-1-E.	1-NHY-310105 EH9a		No
231	1-EDE-PP-11-E	VITAL POWER PANEL 11E	Energized	Energized		NHY-310105 EISa	Train A Ess swgr, NE	Yes
232	1-EDE-PP-11-E - CK7	MSIV 86 & 92 LOGIC CABINET, MS-CP-184 SUPPLY BREAKER	On	On	Provides MSIV close relay K103 & K111 power - required. Evaluated as part of 1-EDE-PP-11-E.	1-NHY-310105 E1Sa		No
233	1-MS-CP-184	MS-CP-184 TRAIN A MSIV LOGIC CABINET	On	On	MSIVs not required per ESEL screening requirements.	1-NHY-310105 E1S/7	East pipechase, 3' elev., room on left	No
234	1-MS-CP-184-CB1	MS-CP-184 LOGIC CABINET, LOCAL BREAKER CB1	On	On	Evaluated as part of 1-MS-CP-184.	1-NHY-310105 E1S/7		No
235	1-MS-CP-184-CB2	MS-CP-184 LOGIC CABINET, LOCAL BREAKER CB2	On	On	Evaluated as part of 1-MS-CP-184.	1-NHY-310105 E1S/7		No
236	1-MS-CP-184-XFMR	MS-CP-184 LOGIC CABINET, 120-48V TRANSFORMERS (4)	Energized	Energized	T1, T2, T3, & T4. Evaluated as part of 1-MS-CP-184.	1-NHY-310105 E1S/7		No
237	1-MS-CP-184-PS	MS-CP-184 48V POWER SUPPLY MODULES (4)	Installed, connected	Installed, connected	PS1, PS2, PS3, & PS4. Evaluated as part of 1-MS-CP-184.	1-NHY-310105 E1S/7		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
238	1-MS-CP-184-FU	MS-CP-184 CARD FRAME FUSES F105 & F106	Installed, connected	Installed, connected	Evaluated as part of 1-MS-CP-184.	1-NHY-310105 E1S/7		No
239	1-MS-CP-184-CARD	MS-CP-184 CABINET LOGIC CARDS	Installed, connected	Installed, connected	Field buffer (2), Valve control module (2), Relay driver (2). Evaluated as part of 1-MS-CP-184.	1-NHY-310105 E1S/7		No
240	1-EDE-PP-11-E - CK9	MSIV 88 & 90 LOGIC CABINET, MS-CP-182 SUPPLY BREAKER	On	On	Provides MSIV close relay K103 & K111 power - required. Evaluated as part of 1-EDE-PP-11-E.	1-NHY-310105 E1Sa		No
241	1-MS-CP-182	MS-CP-182 TRAIN A MSIV LOGIC CABINET	On	On	MSIVs not required per ESEL screening requirements.	1-NHY-310105 E1S/7	East pipechase, 3' elev., room on left	Yes
242	1-MS-CP-182-CB1	MS-CP-182 LOGIC CABINET, LOCAL BREAKER CB1	On	On	Evaluated as part of 1-MS-CP-182.	1-NHY-310105 E1S/9		No
243	1-MS-CP-182-CB2	MS-CP-184 LOGIC CABINET, LOCAL BREAKER CB2	On	On	Evaluated as part of 1-MS-CP-182.	1-NHY-310105 E1S/9		No
244	1-MS-CP-182-XFMR	MS-CP-182 LOGIC CABINET, 120-48V TRANSFORMERS (4)	Energized	Energized	T1, T2, T3, & T4. Evaluated as part of 1-MS-CP-182.	1-NHY-310105 E1S/9		No
245	1-MS-CP-182-PS	MS-CP-182 48V POWER SUPPLY MODULES (4)	Installed, connected	Installed, connected	PS1, PS2, PS3, & PS4. Evaluated as part of 1-MS-CP-182.	1-NHY-310105 E1S/9		No
246	1-MS-CP-182-FU	MS-CP-182 CARD FRAME FUSES F105 & F106	Installed, connected	Installed, connected	Evaluated as part of 1-MS-CP-182.	1-NHY-310105 E1S/9		No
247	1-MS-CP-182-CARD	MS-CP-124 CABINET LOGIC CARDS	Installed, connected	Installed, connected	Field buffer (2), Valve control module (2), Relay driver (2). Evaluated as part of 1-MS-CP-182.	1-NHY-310105 E1S/9		No
248	1-EDE-PP-11-E - CK11	RVLIS TRAIN A PLASMA DISPLAY SUPPLY BREAKER	On	On	Required FLEX instrumentation. Evaluated as part of 1-EDE-PP-11-E.	1-NHY-310105 E1Sa NHY-310965 EIS/11		No
249	1-EDE-PP-11-E - CK17	RVLIS/ HELB TRAIN A CONTROL CABINET SUPPLY BREAKER	On	On	Required FLEX instrumentation. Evaluated as part of 1-EDE-PP-11-E.	1-NHY-310105 E1Sa NHY-310965 EIS/17		No
250	1-EDE-PP-11-E - CK18	RVLIS TRAIN A PLASMA DISPLAY SUPPLY BREAKER	On	On	Required FLEX instrumentation. Evaluated as part of 1-EDE-PP-11-E.	1-NHY-310105 E1Sa NHY-310965 EIS/11		No
251	1-EDE-B-1-C	VITAL 125VDC BATTERY C	Float Charge	Discharge	Provides power to vital shutdown panels & loads	1-NHY-310042	Train A Ess swgr, East end	Yes
252	1-EDE-CP-229	VITAL 125VDC BATTERY BUS 1600A SUPPLY FUSES (2)	Bolted in, connected	Bolted in, connected	Provides power from Battery to DC Bus switchgear	1-NHY-310042	Train A Ess swgr, East end	Yes
253	1-EDE-SWG-11-C-DP7	125V DC BUS 11C NORMAL BATTERY SUPPLY BREAKER	Closed	Closed	Evaluated as part of 1-EDE-SWG-11-C	1-NHY-310042		No
254	1-EDE-SWG-11-C	VITAL 125VDC BUS C	Energized	Energized		1-NHY-310042	Train A Ess swgr, East end	Yes
255	1-EDE-SWG-11-C-DP9	EDE-I-1-C, VITAL INVERTER C DC SUPPLY BREAKER	Closed	Closed	Evaluated as part of 1-EDE-SWG-11-C	1-NHY-310042		No
256	1-EDE-I-1-C	VITAL INVERTER C	Energized	Energized	Provides power to vital shutdown panels & instruments	1-NHY-310042	Train A Ess swgr, East end	Yes

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
257	1-EDE-I-1-C-2CB	VITAL INVERTER C LOCAL DC INPUT BREAKER	On	On	Evaluated as part of 1-EDE-I-1-C.	1-NHY-310105 D30d		No
258	1-EDE-I-1-C-3CB	VITAL INVERTER C LOCAL INVERTER SECTION DC INPUT BREAKER	On	On	Evaluated as part of 1-EDE-I-1-C.	1-NHY-310105 D30d		No
259	1-EDE-I-1-C-1T	VITAL INVERTER C 7.5 KVA INVERTER TRANSFORMER	Energized	Energized	Evaluated as part of 1-EDE-I-1-C.	1-NHY-310105 D30d		No
260	1-EDE-I-1-C-2T	VITAL INVERTER C 7.5 KVA POWER PANEL TRANSFORMER	Energized	Energized	Evaluated as part of 1-EDE-I-1-C.	1-NHY-310105 D30d		No
261	1-EDE-I-1-C-4CB	VITAL INVERTER C LOCAL INVERTER SECTION AC OUTPUT BREAKER	On	On	Evaluated as part of 1-EDE-I-1-C.	1-NHY-310105 D30d		No
262	1-EDE-I-1-C-RR	VITAL INVERTER C INTERNAL RELAYS & RESISTORS	Various energ./ de-energ. states	Various energ./ de-energ. states	Relays 1CSR,4CB, CSRT, RR, ACL & 8R resistors must function correctly. Evaluated as part of 1-EDE-i-1-C.	1-NHY-310105 D30d		No
263	1-EDE-PP-1-C-CK15	VITAL POWER PANEL 1C SUPPLY BREAKER FROM INVERTER C	On	On	Evaluated as part of 1-EDE-PP-1-C.	1-NHY-310105 D30e		No
264	1-EDE-PP-1-C	VITAL POWER PANEL 1C	Energized	Energized		NHY-310105 E03a	Train A Ess swgr, NE	Yes
265	1-EDE-PP-1-C-CK1	CHANNEL III NI CABINET CONTROL POWER	On	On	Operator Info only, non required safe shutdown load	NHY-310105 E03a NHY-310943 FG3b		No
266	1-EDE-PP-1-C-CK3	CHANNEL III NI CABINET INSTRUMENT POWER	On	On	Operator Info only, non required safe shutdown load	NHY-310105 E03a NHY-310943 FG3b		No
267	1-EDE-PP-1-C-CK9	CHANNEL III PROTECTION CABINET, MM-CP-3, POWER	On	On	Required safe shutdown FLEX instrumentation. Evaluated as part of 1-EDE-PP-1-C.	NHY-310105 E03a NHY-310942 E04/9		No
268	1-EDE-PP-1-C - CK14	ED-PP-3-C SUPPLY BREAKER	On	On	Provides power to Operator controls, MM-CP-7. Evaluated as part of 1-EDE-PP-1-C.	1-NHY-310105 E03a		No
269	1-ED-PP-3-C	NON VITAL AC POWER PANEL	On	On		1-NHY-310105 EH7a	Train A Ess swgr, SE end	Yes
270	1-ED-PP-3-C -CK9	CONTROL CAB 7, MM-CP-7, SUPPLY BREAKER	On	On	Provides power to CHAN III vital controls for operators. Evaluated as part of 1-ED-PP-3-C.	1-NHY-310105 EH7a		No
271	1-EDE-B-1-B	VITAL 125VDC BATTERY B	Float Charge	Discharge	Provides power to vital shutdown panels & loads	1-NHY-310042	Train B Ess swgr, East end	Yes
272	1-EDE-CP-228	VITAL 125VDC BATTERY BUS 1600A SUPPLY FUSES (2)	Bolted in, connected	Bolted in, connected	Provides power from Battery to DC Bus switchgear	1-NHY-310042	Train B Ess swgr, East end	Yes
273	1-EDE-SWG-11-B-DN5	125V DC BUS 11B NORMAL BATTERY SUPPLY BREAKER	Closed	Closed	Evaluated as part of EDE-SWG-11-B.	1-NHY-310042		No
274	1-EDE-SWG-11-B	VITAL 125VDC BUS B	Energized	Energized		1-NHY-310042	Train B Ess swgr, East end	Yes
275	1-EDE-SWG-11-B-	VITAL 125V DC PANEL 112B	Closed	Closed	Evaluated as part of EDE-SWG-11-B.	1-NHY-310042		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
276	1-EDE-PP-112-B	VITAL 125V DC PANEL 112B	Energized	Energized		1-NHY-310042	Train B Ess swgr, S. wall	Yes
277	1-EDE-PP-112-B-CK1	1-RC-FV-2881, HEAD VENT SOLENOID POWER	On	On	Required WOG FLEX strategy required equipment. Evaluated as part of EDE-PP-112-B..	NHY-310107 E88a, NHY-310882 E88/1		No
278	1-EDE-MM-580	TRAIN B FUSE PANEL EDE-MM-580 <E4C>	Installed, Energized	Installed, Energized		NHY-310236 E4Ca	Train B Ess swgr, S. wall	Yes
279	1-EDE-MM-580-FU9 & 10	RC-FV-2881 FUSES, FU9 & FU10, AT EDE-MM-580 <E4C>	Installed, connected	Installed, connected	Evaluated as part of EDE-MM-580..	NHY-310107 E88a, NHY-310882 E88/1		No
280	1-EDE-PP-112-B-CK6	FWIV 30, 39, 48, 57 TRAIN B SOLENOID POWER	On	On	Ability to close FWIVs and ensure EFW flows only to SGs. Evaluated as part of 1-EDE-PP-112-B.	NHY-310107 E88a, NHY-310844 E88/6		No
281	1-EDE-CP-249	TRAIN B AUX RELAY PANEL <GN0> IN TRAIN B SWITCHGEAR	Energized	Energized		NHY-310236 GN0a,	Train B Ess swgr, South wall	Yes
282	FW-IX-B	FW-V-30 AUX RELAY	De-energized	Energized	Energizes to close FWIV. Evaluated as part of EDE-CP-249	NHY-310844 E88/6g		No
283	FW-IX-3B	FW-V-39 AUX RELAY	De-energized	Energized	Energizes to close FWIV. Evaluated as part of EDE-CP-249	NHY-310844 E88/6h		No
284	FW-IX-6B	FW-V-48 AUX RELAY	De-energized	Energized	Energizes to close FWIV. Evaluated as part of EDE-CP-249	NHY-310844 E88/6j		No
285	FW-IX-9B	FW-V-57 AUX RELAY	De-energized	Energized	Energizes to close FWIV. Evaluated as part of EDE-CP-249	NHY-310844 E88/6k		No
286	1-EDE-PP-112-B-CK12	CC-V-445 SF HX PCCW COOLING AOV	On	On	Ability to align Train B CC to SF HX 15B. Evaluated as part of 1-EDE-PP-112-B.	NHY-310107 E88a, NHY-310895 E88/12		No
287	1-EDE-PP-112-B-CK13	MS-V-394 & 395 TRAIN B SOLENOID POWER	On	On	Ability to open TDEFW steam supply AOVs. Evaluated as part of 1-EDE-PP-112-B.	NHY-310107 E88a, NHY-310841 E88/13		No
288	1-EDE-PP-112-B-CK14	MS-V-86, MSIV A, TRAIN B SOLENOID POWER	On	On	Energize to close MSIV. Evaluated as part of 1-EDE-PP-112-B	NHY-310107 E88a, NHY-310841 E88/14		No
289	1-MS-CP-185, K103	MSIV A AUX RELAY K103	De-energized	Energized	Energizes to actuate closing solenoid. Evaluated as part of MS-CP-185.	NHY-310841 E88/14a		No
290	1-EDE-PP-112-B-CK9	MS-V-92, MSIV D, TRAIN B SOLENOID POWER	On	On	Energize to close MSIV. Evaluated as part of 1-EDE-PP-112-B	NHY-310107 E88a, NHY-310841 E88/9		No
291	1-MS-CP-185, K111	MSIV D AUX RELAY K111	De-energized	Energized	Energizes to actuate closing solenoid. Evaluated as part of MS-CP-185.	NHY-310841 E88/9a		No
292	1-EDE-PP-112-B-CK19	RC-PCV-456B, PORV B, SOLENOID POWER	On	On	Energizes to open PORV. Required WOG FLEX strategy equipment. Eval'd as part of 1-EDE-PP-112-B.	NHY-310107 E88a, NHY-310882 E88/19		No
293	1-EDE-MM-580-FU19 & 20	POV B FUSES, FU19 & FU20, AT EDE-MM-580 <E4C>	Installed, connected	Installed, connected	Evaluated as part of EDE-MM-580..	NHY-310882 E88/19		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
294	1-EDE-MCC-611	VITAL SWITCHGEAR MCC 611	Energized	Energized		1-NHY-310029	DG B Bldg, Engine room, North side	Yes
295	PORV B 42 DEVICE	125V DC CONTACTOR AT MCC-611 <J3P>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-611	NHY-310882 E88/19		No
296	1-EDE-SWG-11-B-DP2	VITAL 125V DC PANEL 113B SUPPLY BREAKER	Closed	Closed	Evaluated as part of EDE-SWG-11-B.	1-NHY-310042		No
297	1-EDE-PP-113-B	VITAL 125V DC PANEL 113B	Energized	Energized		1-NHY-310042	Train B Ess swgr, S. wall	Yes
298	1-EDE-PP-113-B-CK3	CC-TV-2271-1 & 2 SOLENOID POWER	On	On	Ability to control Train B PCCW temperature	NHY-310107 E2Ua, NHY-310895 E2U/3		No
299	1-EDE-PP-113-B-CK7	SI-FV-2475, 2476, 2477, & 2486, SI ACCUM A & C VENT POWER	On	On	Energizes to open vent. Required WOG FLEX strategy equipment. Eval'd as part of 1-EDE-PP-113-B.	NHY-310107 E2Ua, NHY-310890 E2U/7		No
300	1-EDE-PP-113-B-CK8	MS-PV-3002, ASDV B, SOLENOID 1,2, 3, & 4 POWER	On	On	Ability to control ASDV with M/A station or by using jog control. Eval'd as part of 1-EDE-PP-113-B.	NHY-310107 E2Ua, NHY-310841 E2U/8		No
301	1-EDE-PP-113-B-CK10	MS-PV-3004, ASDV D SOLENOID 1,2, 3, & 4 POWER	On	On	Ability to control ASDV with M/A station or by using jog control. Eval'd as part of 1-EDE-PP-113-B.	NHY-310107 E2Ua, NHY-310841 E2U/10		No
302	1-EDE-PP-113-B-CK12	MS-V-88, MSIV B, TRAIN B SOLENOID POWER	On	On	Energize to close MSIV. Eval'd as part of 1-EDE-PP-113-B.	NHY-310107 E2Ua, NHY-310841 E2U/12		No
303	1-MS-CP-183, K103	MSIV B AUX RELAY K103	De-energized	Energized	Energizes to actuate closing solenoid. Evaluated as part of MS-CP-183.	NHY-310841 E2U/12a		No
304	1-EDE-PP-113-B-CK14	MS-V-90, MSIV C, TRAIN B SOLENOID POWER	On	On	Energize to close MSIV. Eval'd as part of 1-EDE-PP-113-B.	NHY-310107 E2Ua, NHY-310841 E2U/14		No
305	1-MS-CP-183, K111	MSIV C AUX RELAY K111	De-energized	Energized	Energizes to actuate closing solenoid. Evaluated as part of MS-CP-183.	NHY-310841 E2U/14a		No
306	1-EDE-PP-113-B-CK15	MS-PV-3001, ASDV A SOLENOID 5 & 6 POWER	On	On	Ability to control ASDV by using jog control. Eval'd as part of 1-EDE-PP-113-B.	NHY-310107 E2Ua, NHY-310841 E2U/15		No
307	1-EDE-PP-113-B-CK16	MS-PV-3003, ASDV C SOLENOID 5 & 6 POWER	On	On	Ability to control ASDV by using jog control. Eval'd as part of 1-EDE-PP-113-B.	NHY-310107 E2Ua, NHY-310841 E2U /16		No
308	1-EDE-SWG-11-B-DN7	VITAL 125V DC PANEL 111B SUPPLY BREAKER	Closed	Closed	Evaluated as part of EDE-SWG-11-B.	1-NHY-310042		No
309	1-EDE-PP-111-B	VITAL 125V DC PANEL 111B	Energized	Energized		1-NHY-310042	Train B Ess swgr, E. end	Yes
310	1-EDE-PP-111-B-CK1	BUS E6 DC CONTROL POWER	On	On	Ability to close Bus 6 SEPS feeder breaker. Eval'd as part of 1-EDE-PP-111-B.	NHY-310107 E94a, NHY-301102 5I		No
311	1-EDE-SWG-6-A73	BUS E6 125VDC CONTROL POWER LOCAL 100A BREAKER	On	On	Evaluated as part on Bus 6 switchgear.	NHY-310107 E94a, NHY-301102 5I		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
312	1-EDE-SWG-11-B-DN8	EDE-I-1-B, VITAL INVERTER B DC SUPPLY BREAKER	Closed	Closed	Evaluated as part of EDE-SWG-11-B.	1-NHY-310042		No
313	1-EDE-I-1-B	VITAL INVERTER B	Energized	Energized	Provides power to vital shutdown panels & instruments	1-NHY-310042	Train B Ess swgr, E. end of MCC-621	Yes
314	1-EDE-I-1-B-2CB	VITAL INVERTER B LOCAL DC INPUT BREAKER	On	On	Evaluated as part of EDE-I-1-B.	1-NHY-310105 D26d		No
315	1-EDE-I-1-B-3CB	VITAL INVERTER B LOCAL INVERTER SECTION DC INPUT BREAKER	On	On	Evaluated as part of EDE-I-1-B.	1-NHY-310105 D26d		No
316	1-EDE-I-1-B-1T	VITAL INVERTER B 7.5 KVA INVERTER TRANSFORMER	Energized	Energized	Evaluated as part of EDE-I-1-B.	1-NHY-310105 D26d		No
317	1-EDE-I-1-B-2T	VITAL INVERTER B 7.5 KVA POWER PANEL TRANSFORMER	Energized	Energized	Evaluated as part of EDE-I-1-B.	1-NHY-310105 D26d		No
318	1-EDE-I-1-B-4CB	VITAL INVERTER B LOCAL INVERTER SECTION AC OUTPUT BREAKER	On	On	Evaluated as part of EDE-I-1-B.	1-NHY-310105 D26d		No
319	1-EDE-I-1-B-RR	VITAL INVERTER B INTERNAL RELAYS & RESISTORS	Various energ./ de-energ. states	Various energ./ de-energ. states	Relays 1CSR,4CB, CSRT, RR, ACL & 8R resistors must function correctly. Eval'd as part of EDE-I-1-B.	1-NHY-310105 D26d		No
320	1-EDE-PP-1-B-CK15	VITAL POWER PANEL 1B SUPPLY BREAKER FROM INVERTER B	On	On	Evaluated as part of EDE-PP-1-B	1-NHY-310105 D26e		No
321	1-EDE-PP-1-B	VITAL POWER PANEL 1B	Energized	Energized		NHY-310105 E02a	Train B Ess swgr, SE	Yes
322	1-EDE-PP-1-B-CK1	CHANNEL II NI CABINET CONTROL POWER	On	On	Operator Info only, non required safe shutdown load. Evaluated as part of EDE-PP-1-B.	NHY-310105 E02a NHY-310943 FG1b		No
323	1-EDE-PP-1-B-CK3	CHANNEL II NI CABINET INSTRUMENT POWER	On	On	Operator Info only, non required safe shutdown load. Evaluated as part of EDE-PP-1-B.	NHY-310105 E02a NHY-310943 FG1b		No
324	1-EDE-PP-1-B-CK9	CHANNEL II PROTECTION CABINET, MM-CP-2, POWER	On	On	Required safe shutdown FLEX instrumentation. Evaluated as part of EDE-PP-1-B	NHY-310105 E02a NHY-310942 E02/9		No
325	1-EDE-SWG-11-B-DN0	EDE-I-1-F, VITAL INVERTER F DC SUPPLY BREAKER	Closed	Closed	Evaluated as part of EDE-SWG-11-B.	1-NHY-310042		No
326	1-EDE-I-1-F	VITAL INVERTER F	Energized	Energized	Provides power to vital shutdown panels & instruments	1-NHY-310042	Train B Ess swgr, East end	Yes
327	1-EDE-I-1-F-A13-F1	VITAL INVERTER F DC SUPPLY FUSES A13-F1 & A13-F2	Installed, connected	Installed, connected	Evaluated as part of EDE-I-1-F.	1-NHY-310105 DD5h		No
328	1-EDE-I-1-F-CB131	VITAL INVERTER F LOCAL DC INPUT BREAKER	On	On	Evaluated as part of EDE-I-1-F.	1-NHY-310105 DD5h		No
329	1-EDE-I-1-F-CB133	VITAL INVERTER F LOCAL AC OUTPUT BREAKER	On	On	Evaluated as part of EDE-I-1-F.	1-NHY-310105 DD5h		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
330	1-EDE-I-1-F-RR	VITAL INVERTER F INTERNAL RELAYS, TRANSFORMERS, FUSES, CAPACITORS, & LOGIC BOARDS	Various energ./ de-energ. States	Various energ./ de-energ. States	Internal components must function correctly. Evaluated as part of EDE-I-1-F.	1-NHY-310105 DD5g & h		No
331	1-EDE-CP-1-F - E2B	VITAL INVERTER F STATIC SWITCH PANEL TRANSFORMERS, RELAYS, & LOGIC BOARDS	Various energ./ de-energ. States	Various energ./ de-energ. States	Internal components must function correctly	1-NHY-310105 DD5f	Train B Ess swgr, East end, South wall	Yes
332	1-EDE-PP-1-F - NORM-BKR	POWER PANEL 1F NORMAL SUPPLY BKR FROM INVERTER	On	On	Evaluated as part of EDE-PP-1-F.	1-NHY-310105 DD5e		No
333	1-EDE-PP-1-F	VITAL POWER PANEL 1F	Energized	Energized		NHY-310105 EH0a	Train B Ess swgr, SE	Yes
334	1-EDE-PP-1-F - CK1	VITAL BOP CAB 152B, MM-CP-152-B, SUPPLY POWER	On	On	Operator Info only, non required safe shutdown FLEX instruments. Evaluated as part of EDE-PP-1-F.	1-NHY-310952 EH0/1		No
335	1-EDE-PP-1-F - CK7	TRAIN B HAGEN CONTROLLER POWER	On	On	Operator use only, non required controls for letdown, excess letdown, & Train B RHR. Evaluated as part of EDE-PP-1-F.	1-NHY-310940 EH0/7		No
336	1-EDE-PP-1-F - CK19	VITAL BOP CAB 297B, MM-CP-297-B, SUPPLY POWER	On	On	Cabinet provides power to required safe shutdown FLEX instruments. Evaluated as part of EDE-PP-1-F.	1-NHY-310952 EH0/19		No
337	1-EDE-PP-1-F -	EDE-PP-11-F SUPPLY BREAKER	On	On	Provides power to vital shutdown FLEX	1-NHY-310105 EH0a		No
338	1-EDE-PP-11-F	VITAL POWER PANEL 11F	Energized	Energized		NHY-310105 EITa	Train B Ess swgr, SE	Yes
339	1-EDE-PP-11-F - CK7	MSIV 86 & 92 LOGIC CABINET, MS-CP-185 SUPPLY BREAKER	On	On	Provides MSIV close relay K103 & K111 power - required. Evaluated as part of 1-EDE-PP-11-F.	1-NHY-310105 E1Ta		No
340	1-MS-CP-185	MS-CP-185 TRAIN B MSIV LOGIC CABINET	On	On	MSIVs not required per ESEL screening requirements.	1-NHY-310105 E1T/7	Train B Ess swgr, Sotuh end of Bus 6	No
341	1-MS-CP-185-CB1	MS-CP-185 LOGIC CABINET, LOCAL BREAKER CB1	On	On	Evaluated as part of 1-MS-CP-185.	1-NHY-310105 E1T/7		No
342	1-MS-CP-185-CB2	MS-CP-185 LOGIC CABINET, LOCAL BREAKER CB2	On	On	Evaluated as part of 1-MS-CP-185.	1-NHY-310105 E1T/7		No
343	1-MS-CP-185-XFMR	MS-CP-185 LOGIC CABINET, 120-48V TRANSFORMERS (4)	Energized	Energized	T1, T2, T3, & T4. Evaluated as part of 1-MS-CP-185.	1-NHY-310105 E1T/7		No
344	1-MS-CP-185-PS	MS-CP-185 48V POWER SUPPLY MODULES (4)	Installed, connected	Installed, connected	PS1, PS2, PS3, & PS4. Evaluated as part of 1-MS-CP-185.	1-NHY-310105 E1T/7		No
345	1-MS-CP-185-FU	MS-CP-185 CARD FRAME FUSES F105 & F106	Installed, connected	Installed, connected	Evaluated as part of 1-MS-CP-185.	1-NHY-310105 E1T/7		No
346	1-MS-CP-185-CARD	MS-CP-185 CABINET LOGIC CARDS	Installed, connected	Installed, connected	Field buffer (2), Valve control module (2), Relay driver (2). Evaluated as part of 1-MS-CP-185.	1-NHY-310105 E1T/7		No
347	1-EDE-PP-11-F - CK9	MSIV 88 & 90 LOGIC CABINET, MS-CP-183 SUPPLY BREAKER	On	On	Provides MSIV close relay K103 & K111 power - required. Evaluated as part of 1-EDE-PP-11-F.	1-NHY-310105 E1Ta		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
348	1-MS-CP-183	MS-CP-183 TRAIN B MSIV LOGIC CABINET	On	On	MSIVs not required per ESEL screening requirements.	1-NHY-310105 E1T/9	Train B Ess swgr, South end of Bus 6	No
349	1-MS-CP-183-CB1	MS-CP-183 LOGIC CABINET, LOCAL BREAKER CB1	On	On	Evaluated as part of 1-MS-CP-183.	1-NHY-310105 E1T/9		No
350	1-MS-CP-183-CB2	MS-CP-183 LOGIC CABINET, LOCAL BREAKER CB2	On	On	Evaluated as part of 1-MS-CP-183.	1-NHY-310105 E1T/9		No
351	1-MS-CP-183-XFMR	MS-CP-183 LOGIC CABINET, 120-48V TRANSFORMERS (4)	Energized	Energized	T1, T2, T3, & T4. Evaluated as part of 1-MS-CP-183.	1-NHY-310105 E1T/9		No
352	1-MS-CP-183-PS	MS-CP-183 48V POWER SUPPLY MODULES (4)	Installed, connected	Installed, connected	PS1, PS2, PS3, & PS4. Evaluated as part of 1-MS-CP-183.	1-NHY-310105 E1T/9		No
353	1-MS-CP-183-FU	MS-CP-183 CARD FRAME FUSES F105 & F106	Installed, connected	Installed, connected	Evaluated as part of 1-MS-CP-183.	1-NHY-310105 E1T/9		No
354	1-MS-CP-183-CARD	MS-CP-183 CABINET LOGIC CARDS	Installed, connected	Installed, connected	Field buffer (2), Valve control module (2), Relay driver (2). Evaluated as part of 1-MS-CP-183.	1-NHY-310105 E1T/9		No
355	1-EDE-PP-11-F - CK17	RVLIS/ HELB TRAIN B CONTROL CABINET SUPPLY BREAKER	On	On	Required FLEX instrumentation. Eval'd as part of 1-EDE-PP-11-F.	1-NHY-310105 E1Ta NHY-310965 EIT/17		No
356	1-EDE-B-1-D	VITAL 125VDC BATTERY D	Float Charge	Discharge	Provides power to vital shutdown panels & loads	1-NHY-310042	Train B Ess swgr, East end	Yes
357	1-EDE-CP-230	VITAL 125VDC BATTERY BUS 1600A SUPPLY FUSES (2)	Bolted in, connected	Bolted in, connected	Provides power from Battery to DC Bus switchgear	1-NHY-310042	Train B Ess swgr, East end	Yes
358	1-EDE-SWG-11-D-DQ9	125V DC BUS 11D NORMAL BATTERY SUPPLY BREAKER	Closed	Closed	Evaluated as part of EDE-SWG-11-D.	1-NHY-310042		No
359	1-EDE-SWG-11-D	VITAL 125VDC BUS D	Energized	Energized		1-NHY-310042	Train B Ess swgr, East end	Yes
360	1-EDE-SWG-11-D-DR1	EDE-I-1-D, VITAL INVERTER D DC SUPPLY BREAKER	Closed	Closed	Evaluated as part of EDE-SWG-11-D.	1-NHY-310042		No
361	1-EDE-I-1-D	VITAL INVERTER D	Energized	Energized	Provides power to vital shutdown panels & instruments	1-NHY-310042	Train B Ess swgr, East end	Yes
362	1-EDE-I-1-D-2CB	VITAL INVERTER D LOCAL DC INPUT BREAKER	On	On	Evaluated as part of EDE-I-1-D	1-NHY-310105 D23d		No
363	1-EDE-I-1-D-3CB	VITAL INVERTER D LOCAL INVERTER SECTION DC INPUT BREAKER	On	On	Evaluated as part of EDE-I-1-D	1-NHY-310105 D23d		No
364	1-EDE-I-1-D-1T	VITAL INVERTER D 7.5 KVA INVERTER TRANSFORMER	Energized	Energized	Evaluated as part of EDE-I-1-D	1-NHY-310105 D23d		No
365	1-EDE-I-1-D-2T	VITAL INVERTER D 7.5 KVA POWER PANEL TRANSFORMER	Energized	Energized	Evaluated as part of EDE-I-1-D	1-NHY-310105 D23d		No
366	1-EDE-I-1-D-4CB	VITAL INVERTER D LOCAL INVERTER SECTION AC OUTPUT BREAKER	On	On	Evaluated as part of EDE-I-1-D	1-NHY-310105 D23d		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	**Equip ID**	**Description**	**Equipment Normal State**	**Equipment Desired State**	**Notes**	**Reference**	**Plant Location**	**Include on ESEL?**
367	1-EDE-I-1-D-RR	VITAL INVERTER D INTERNAL RELAYS & RESISTORS	Various energ./ de-energ. states	Various energ./ de-energ. states	Relays 1CSR,4CB, CSRT, RR, ACL & 8R resistors must function correctly. Evaluated as part of EDE-I-1-D.	1-NHY-310105 D23d		No
368	1-EDE-PP-1-D-	VITAL POWER PANEL 1D SUPPLY	On	On	Evaluated as part of EDE-PP-1-D	1-NHY-310105 D23e		No
369	1-EDE-PP-1-D	VITAL POWER PANEL 1D	Energized	Energized		NHY-310105 E04a	Train B Ess swgr, East of	Yes
370	1-EDE-PP-1-D-CK1	CHANNEL IV NI CABINET CONTROL POWER	On	On	Operator Info only, non required safe shutdown load. Evaluated as part of EDE-PP-1-D.	NHY-310105 E04a NHY-310943 FG5b		No
371	1-EDE-PP-1-D-CK3	CHANNEL IV NI CABINET INSTRUMENT POWER	On	On	Operator Info only, non required safe shutdown load. Evaluated as part of EDE-PP-1-D.	NHY-310105 E04a NHY-310943 FG5b		No
372	1-EDE-PP-1-D-CK10	CHANNEL IV PROTECTION CABINET, MM-CP-4, POWER	On	On	Required safe shutdown FLEX instrumentation. Evaluated as part of EDE-PP-1-D.	NHY-310105 E04a NHY-310942 E04/10FG3b		No
FLEX ESEL - Required Main Control Board instrumentation								
373	1-MCB	MAIN CONTROL BOARD	Installed	Installed		N/A	Control Bldg, 75' elev.	Yes
374	1-RC-TI-9423-A	TRAIN A CORE EXIT THERMOCOUPLE INDICATOR	Indicating	Indicating	From MM-CP-486A. Evaluated under 1-MCB.	NHY-310965 F98h		No
375	1-RC-TI-9424-A	TRAIN A SUBCOOLING INDICATOR	Indicating	Indicating	Operator use only. Not required as FLEX instrumentation	NHY-310965 F98h		No
376	1-RC-LI-1311	TRAIN A RVLIS FULL RANGE LEVEL	Indicating	Indicating	From MM-CP-486A. Evaluated under 1-MCB.	NHY-310965 F98c		No
377	1-MM-CP-486-A	TRAIN A RVLIS/ HELB CABINET	Energized	Energized	Processes input signal to send to MCB indicators	NHY-310965 EIS/17a, FP57442	Control Bldg, 75' elev., East side	Yes
378	1-RC-XX-7315-3	TRAIN A RVLIS PLASMA DISPLAY ELECTRONICS MODULE	Energized	Energized	Processes input signal to send to MCB plasma display. Evaluated under 1-MCB.	NHY-310965 EIS/11a		No
379	1-RC-XX-7315-1	TRAIN A RVLIS PLASMA DISPLAY	Indicating	Indicating	MCB plasma display. Evaluated under 1-MCB.	NHY-310965 EIS/11a		No
380	1-RC-LI-459A	PZR LEVEL CHAN I (PAM)	Indicating	Indicating	From MM-CP-1. Evaluated under 1-MCB.	NHY-509011		No
381	1-RC-PI-405-1 & 2	TRAIN A RCS WIDE RANGE PRESSURE (PAM)	Indicating	Indicating	From MM-CP-1. Evaluated under 1-MCB.	NHY-509036		No
382	1-RC-TI-413A	RCS LOOP 1 HOT LEG WR TEMPERATURE (PAM)	Indicating	Indicating	From MM-CP-1. Evaluated under 1-MCB.	NHY-509005		No
383	1-RC-TI-423A	RCS LOOP 2 HOT LEG WR TEMPERATURE (PAM)	Indicating	Indicating	From MM-CP-1. Evaluated under 1-MCB.	NHY-509005		No
384	1-RC-TI-433A	RCS LOOP 3 HOT LEG WR TEMPERATURE (PAM)	Indicating	Indicating	From MM-CP-1. Evaluated under 1-MCB.	NHY-509005		No
385	1-RC-TI-443A	RCS LOOP 4 HOT LEG WR TEMPERATURE (PAM)	Indicating	Indicating	From MM-CP-1. Evaluated under 1-MCB.	NHY-509005		No
386	1-FW-LI-501	SG A WIDE RANGE LEVEL (PAM)	Indicating	Indicating	From MM-CP-1. Evaluated under 1-MCB.	NHY-509034		No

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387	1-FW-LI-529	SG B NARROW RANGE LEVEL (PAM)	Indicating	Indicating	From MM-CP-1. Evaluated under 1-MCB.	NHY-509017		No
388	1-FW-PI-514A	SG A PRESSURE (PAM)	Indicating	Indicating	From MM-CP-1. Evaluated under 1-MCB.	NHY-509013		No
389	1-FW-PI-524A	SG B PRESSURE (PAM)	Indicating	Indicating	From MM-CP-1. Evaluated under 1-MCB.	NHY-509013		No
390	1-FW-PI-534A	SG C PRESSURE (PAM)	Indicating	Indicating	From MM-CP-1. Evaluated under 1-MCB.	NHY-509014		No
391	1-FW-PI-544A	SG D PRESSURE (PAM)	Indicating	Indicating	From MM-CP-1. Evaluated under 1-MCB.	NHY-509014		No
392	1-MM-CP-1	CHANNEL 1 PROTECTION CABINET	Energized	Energized	Powered from EDE-PP-1-A, ckt #9	NHY-301942 E01/9a	Control Bldg, 75' elev., East side	Yes
393	1-MM-CP-1-CB3	MM-CP-1 LOCAL CABINET POWER SUPPLY #1 BREAKER	On	On	Either CB3 or CB4 must be closed. Eval'd as part of MM-CP-1.	NHY-301942 E01/9a		No
394	1-MM-UQ-761A	MM-CP-1 POWER SUPPLY #1	Energized	Energized	Either Power supply #1 or #2 must be energized. Eval'd as part of MM-CP-1.	NHY-301942 E01/9a		No
395	1-MM-CP-1-CB4	MM-CP-1 LOCAL CABINET POWER SUPPLY #2 BREAKER	On	On	Either CB3 or CB4 must be closed. Eval'd as part of MM-CP-1.	NHY-301942 E01/9a		No
396	1-MM-UQ-761B	MM-CP-1 POWER SUPPLY #2	Energized	Energized	Either Power supply #1 or #2 must be energized. Eval'd as part of MM-CP-1.	NHY-301942 E01/9a		No
397	1-RC-TI-9423-B	TRAIN B CORE EXIT THERMOCOUPLE INDICATOR	Indicating	Indicating	From MM-CP-486B. Evaluated under 1-MCB.	NHY-310965 F97h		No
398	1-RC-TI-9424-B	TRAIN B SUBCOOLING INDICATOR	Indicating	Indicating	Operator use only. Not required as FLEX instrumentation	NHY-310965 F97h		No
399	1-RC-LI-1321	TRAIN B RVLIS FULL RANGE LEVEL	Indicating	Indicating	From MM-CP-486B. Evaluated under 1-MCB.	NHY-310965 F97c		No
400	1-MM-CP-486-B	TRAIN B RVLIS/ HELB CABINET	Energized	Energized	Processes input signal to send to MCB indicators	NHY-310965 EIT/17a, FP57442	Control Bldg, 75' elev., East side	Yes
401	1-RC-XX-7315-4	TRAIN B RVLIS PLASMA DISPLAY	Indicating	Indicating	MCB plasma display. Evaluated under 1-MCB.	NHY-310965 E53/18		No
402	1-RC-LI-460A	PZR LEVEL CHAN II (PAM)	Indicating	Indicating	From MM-CP-2. Evaluated under 1-MCB.	NHY-509011		No
403	1-RC-TI-413B	RCS LOOP 1 COLD LEG WR TEMPERATURE (PAM)	Indicating	Indicating	From MM-CP-2. Evaluated under 1-MCB.	NHY-509006		No
404	1-RC-TI-423B	RCS LOOP 2 COLD LEG WR TEMPERATURE (PAM)	Indicating	Indicating	From MM-CP-2. Evaluated under 1-MCB.	NHY-509006		No
405	1-RC-TI-433B	RCS LOOP 3 COLD LEG WR TEMPERATURE (PAM)	Indicating	Indicating	From MM-CP-2. Evaluated under 1-MCB.	NHY-509006		No
406	1-RC-TI-443B	RCS LOOP 4 COLD LEG WR TEMPERATURE (PAM)	Indicating	Indicating	From MM-CP-2. Evaluated under 1-MCB.	NHY-509006		No
407	1-FW-LI-502	SG B WIDE RANGE LEVEL (PAM)	Indicating	Indicating	From MM-CP-2. Evaluated under 1-MCB.	NHY-509034		No

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408	1-FW-LI-519	SG A NARROW RANGE LEVEL (PAM)	Indicating	Indicating	From MM-CP-2. Evaluated under 1-MCB.	NHY-509017		No
409	1-FW-PI-515A	SG A PRESSURE (PAM)	Indicating	Indicating	From MM-CP-2. Evaluated under 1-MCB.	NHY-509015		No
410	1-FW-PI-525A	SG B PRESSURE (PAM)	Indicating	Indicating	From MM-CP-2. Evaluated under 1-MCB.	NHY-509015		No
411	1-FW-PI-535A	SG C PRESSURE (PAM)	Indicating	Indicating	From MM-CP-2. Evaluated under 1-MCB.	NHY-509016		No
412	1-FW-PI-545A	SG D PRESSURE (PAM)	Indicating	Indicating	From MM-CP-2. Evaluated under 1-MCB.	NHY-509016		No
413	1-MM-CP-2	CHANNEL 2 PROTECTION CABINET	Energized	Energized	Powered from EDE-PP-1-B, ckt #9	NHY-301942 E02/9a	Control Bldg, 75' elev., East side	Yes
414	1-MM-CP-2-CB3	MM-CP-2 LOCAL CABINET POWER SUPPLY #1 BREAKER	On	On	Either CB3 or CB4 must be closed. Eval'd as part of MM-CP-2.	NHY-301942 E02/9a		No
415	1-MM-UQ-762A	MM-CP-2 POWER SUPPLY #1	Energized	Energized	Either Power supply #1 or #2 must be energized. Eval'd as part of MM-CP-2.	NHY-301942 E02/9a		No
416	1-MM-CP-2-CB4	MM-CP-2 LOCAL CABINET POWER SUPPLY #2 BREAKER	On	On	Either CB3 or CB4 must be closed. Eval'd as part of MM-CP-2.	NHY-301942 E02/9a		No
417	1-MM-UQ-762B	MM-CP-2 POWER SUPPLY #2	Energized	Energized	Either Power supply #1 or #2 must be energized. Eval'd as part of MM-CP-2.	NHY-301942 E02/9a		No
418	1-FW-LI-503	SG C WIDE RANGE LEVEL (PAM)	Indicating	Indicating	From MM-CP-3. Evaluated under 1-MCB.	NHY-509034		No
419	1-FW-LI-548	SG D NARROW RANGE LEVEL (PAM)	Indicating	Indicating	From MM-CP-3. Evaluated under 1-MCB.	NHY-509019		No
420	1-MM-CP-3	CHANNEL 3 PROTECTION CABINET	Energized	Energized	Powered from EDE-PP-1-C, ckt #9	NHY-301942 E03/9a	Control Bldg, 75' elev., East side	Yes
421	1-MM-CP-3-CB3	MM-CP-3 LOCAL CABINET POWER SUPPLY #1 BREAKER	On	On	Either CB3 or CB4 must be closed. Eval'd as part of MM-CP-3.	NHY-301942 E03/9a		No
422	1-MM-UQ-763A	MM-CP-3 POWER SUPPLY #1	Energized	Energized	Either Power supply #1 or #2 must be energized. Eval'd as part of MM-CP-3.	NHY-301942 E03/9a		No
423	1-MM-CP-3-CB4	MM-CP-3 LOCAL CABINET POWER SUPPLY #2 BREAKER	On	On	Either CB3 or CB4 must be closed. Eval'd as part of MM-CP-3.	NHY-301942 E03/9a		No
424	1-MM-UQ-763B	MM-CP-3 POWER SUPPLY #2	Energized	Energized	Either Power supply #1 or #2 must be energized. Eval'd as part of MM-CP-3.	NHY-301942 E03/9a		No
425	1-FW-LI-504	SG D WIDE RANGE LEVEL (PAM)	Indicating	Indicating	From MM-CP-4. Evaluated under 1-MCB.	NHY-509034		No
426	1-FW-LI-537	SG C NARROW RANGE LEVEL (PAM)	Indicating	Indicating	From MM-CP-4. Evaluated under 1-MCB.	NHY-509020		No
427	1-RC-PI-403-1 & 2	TRAIN B RCS WIDE RANGE PRESSURE (PAM)	Indicating	Indicating	From MM-CP-4. Evaluated under 1-MCB.	NHY-509036		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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428	1-MM-CP-4	CHANNEL 4 PROTECTION CABINET	Energized	Energized	Powered from EDE-PP-1-D, ckt #10	NHY-301942 E04/10a	Control Bldg, 75' elev., East side	Yes
429	1-MM-CP-4-CB3	MM-CP-4 LOCAL CABINET POWER SUPPLY #1 BREAKER	On	On	Either CB3 or CB4 must be closed. Eval'd as part of MM-CP-4.	NHY-301942 E04/10a		No
430	1-MM-UQ-764A	MM-CP-4 POWER SUPPLY #1	Energized	Energized	Either Power supply #1 or #2 must be energized. Eval'd as part of MM-CP-4.	NHY-301942 E04/10a		No
431	1-MM-CP-4-CB4	MM-CP-4 LOCAL CABINET POWER SUPPLY #2 BREAKER	On	On	Either CB3 or CB4 must be closed. Eval'd as part of MM-CP-4.	NHY-301942 E04/10a		No
432	1-MM-UQ-764B	MM-CP-4 POWER SUPPLY #2	Energized	Energized	Either Power supply #1 or #2 must be energized. Eval'd as part of MM-CP-4.	NHY-301942 E04/10a		No
433	1-FW-FI-4214-2	SG A EFW FLOW	Indicating	Indicating	From MM-CP-297A. Evaluated under 1-MCB.	NHY-310952		No
434	1-FW-FI-4234-2	SG C EFW FLOW	Indicating	Indicating	From MM-CP-297A. Evaluated under 1-MCB.	NHY-310952		No
435	1-FW-LI-4252	CST LEVEL	Indicating	Indicating	From MM-CP-297A. Evaluated under 1-MCB.	NHY-310952		No
436	1-SI-PI-2577	CONT WIDE RANGE PRESSURE	Indicating	Indicating	From MM-CP-297A. Evaluated under 1-MCB.	NHY-310952		No
437	1-MM-CP-297A	TRAIN A VITAL BOP CABINET	Energized	Energized	Powered from EDE-PP-1-E, ckt #19	NHY-301952 EH9/19a	Control Bldg, 75' elev., Behind MCB, W. side	Yes
438	1-MM-CP-297A-CB3	MM-CP-297A LOCAL CABINET POWER SUPPLY #1 BREAKER	On	On	Either CB3 or CB4 must be closed. Eval'd as part of MM-CP-297A.	NHY-301952 EH9/19a		No
439	1-MM-UQ-5886	MM-CP-297A POWER SUPPLY #1	Energized	Energized	Either Power supply #1 or #2 must be energized. Eval'd as part of MM-CP-297A.	NHY-301952 EH9/19a		No
440	1-MM-CP-297A-CB4	MM-CP-297A LOCAL CABINET POWER SUPPLY #2 BREAKER	On	On	Either CB3 or CB4 must be closed. Eval'd as part of MM-CP-297A.	NHY-301952 EH9/19a		No
441	1-MM-UQ-5887	MM-CP-297A POWER SUPPLY #2	Energized	Energized	Either Power supply #1 or #2 must be energized. Eval'd as part of MM-CP-297A.	NHY-301952 EH9/19a		No
442	1-FW-FI-4224-2	SG B EFW FLOW	Indicating	Indicating	From MM-CP-297B. Evaluated under 1-MCB.	NHY-310952		No
443	1-FW-FI-4244-2	SG D EFW FLOW	Indicating	Indicating	From MM-CP-297B. Evaluated under 1-MCB.	NHY-310952		No
444	1-FW-LI-4257	CST LEVEL	Indicating	Indicating	From MM-CP-297B. Evaluated under 1-MCB.	NHY-310952		No
445	1-SI-PI-2576	CONT WIDE RANGE PRESSURE	Indicating	Indicating	From MM-CP-297B. Evaluated under 1-MCB.	NHY-310952		No
446	1-MM-CP-297B	TRAIN A VITAL BOP CABINET	Energized	Energized	Powered from EDE-PP-1-E, ckt #19	NHY-301952 EH0/19a	Control Bldg, 75' elev., Behind MCB, W. side	Yes
447	1-MM-CP-297B-CB3	MM-CP-297B LOCAL CABINET POWER SUPPLY #1 BREAKER	On	On	Either CB3 or CB4 must be closed. Eval'd as part of MM-CP-297B.	NHY-301952 EH0/19a		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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448	1-MM-UQ-5847	MM-CP-297B POWER SUPPLY #1	Energized	Energized	Either Power supply #1 or #2 must be energized. Eval'd as part of MM-CP-297B.	NHY-301952 EH0/19a		No
449	1-MM-CP-297B-CB4	MM-CP-297B LOCAL CABINET POWER SUPPLY #2 BREAKER	On	On	Either CB3 or CB4 must be closed. Eval'd as part of MM-CP-297B.	NHY-301952 EH0/19a		No
450	1-MM-UQ-5848	MM-CP-297B POWER SUPPLY #2	Energized	Energized	Either Power supply #1 or #2 must be energized. Eval'd as part of MM-CP-297B.	NHY-301952 EH0/19a		No
451	1-CBS-LI-2380	RWST WIDE RANGE LEVEL	Indicating	Indicating	From MM-CP-152A. OPS use only, Not required FLEX instrumentation	NHY-310952		No
452	1-SW-LI-6129	COOLING TOWER LEVEL	Indicating	Indicating	From MM-CP-152A. OPS use only, Not required FLEX instrumentation	NHY-310952		No
453	1-MM-CP-152A	TRAIN A VITAL BOP CABINET	Energized	Energized	Powered from EDE-PP-1-E, ckt #1. OPS use only, Not required	NHY-301952 EH9/1a		No
454	1-MM-CP-152A-CB3	MM-CP-152A LOCAL CABINET POWER SUPPLY #1 BREAKER	On	On	Either CB3 or CB4 must be closed. OPS use only, Not required	NHY-301952 EH9/1a		No
455	1-MM-UQ-5861	MM-CP-152A POWER SUPPLY #1	Energized	Energized	Either Pwr supply #1 or #2 must be energized. Ops use only, not req'd.	NHY-301952 EH9/1a		No
456	1-MM-CP-152A-CB4	MM-CP-152A LOCAL CABINET POWER SUPPLY #2 BREAKER	On	On	Either CB3 or CB4 must be closed. OPS use only, Not required	NHY-301952 EH9/1a		No
457	1-MM-UQ-5861	MM-CP-152A POWER SUPPLY #2	Energized	Energized		NHY-301952 EH9/1a		No
458	1-CBS-LI-2383	RWST WIDE RANGE LEVEL	Indicating	Indicating	From MM-CP-152B. OPS use only, Not required FLEX instrumentation	NHY-310952		No
459	1-SW-LI-6139	COOLING TOWER LEVEL	Indicating	Indicating	From MM-CP-152B. OPS use only, Not required FLEX instrumentation	NHY-310952		No
460	1-SW-FI-6191	TRAIN B COOLING TOWER RETURN FLOW	Indicating	Indicating	From MM-CP-152B. OPS use only, Not required FLEX instrumentation	NHY-310952		No
461	1-MM-CP-152B	TRAIN B VITAL BOP CABINET	Energized	Energized	Powered from EDE-PP-1-F, ckt #1. OPS use only, Not required	NHY-301952 EH0/1a		No
462	1-MM-CP-152B-CB3	MM-CP-152B LOCAL CABINET POWER SUPPLY #1 BREAKER	On	On	Either CB3 or CB4 must be closed. OPS use only, Not required	NHY-301952 EH0/1a		No
463	1-MM-UQ-5862	MM-CP-152B POWER SUPPLY #1	Energized	Energized	Either Pwr supply #1 or #2 must be energized. Ops use only, not req'd.	NHY-301952 EH0/1a		No
464	1-MM-CP-152B-CB4	MM-CP-152B LOCAL CABINET POWER SUPPLY #2 BREAKER	On	On	Either CB3 or CB4 must be closed. OPS use only, Not required	NHY-301952 EH0/1a		No
465	1-MM-UQ-5863	MM-CP-152B POWER SUPPLY #2	Energized	Energized	Either Pwr supply #1 or #2 must be energized. Ops use only, not req'd.	NHY-301952 EH0/1a		No
466	1-FW-LT-4252	CST LEVEL TRANSMITTER	Energized	Energized	Required FLEX Instruments	NHY-310952, FP72183	Located in EFW pumphose, N. end	Yes
467	1-SI-PT-2577	CONT WIDE RANGE PRESSURE	Energized	Energized	Required FLEX Instruments	ILD-1-SI-P02577	Located in Train B elec. Tuneel, -26'elev.	Yes
468	1-FW-LT-4257	CST LEVEL TRANSMITTER	Energized	Energized	Required FLEX Instruments	NHY-310952, FP72184	Located in EFW pumphose, N. end	Yes

FLEX Expedited Seismic Evaluation List (ESEL)								
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469	1-SI-PT-2576	CONT WIDE RANGE PRESSURE	Energized	Energized	Required FLEX Instruments	ILD-1-SI-P02576	Located in Train B elec. Tuneel, -26'elev.	Yes
470	1-RC-PT-405	RCS WIDE RANGE PRESSURE TRAIN A TRANSMITTER	Energized	Energized	Required FLEX Instruments	509036, FP55315	Located in Train B elec. Tuneel, -26'elev.	Yes
471	1-RC-PT-403	RCS WIDE RANGE PRESSURE TRAIN B TRANSMITTER	Energized	Energized	Required FLEX Instruments	509036, FP55318	Located in Train B elec. Tuneel, -26'elev.	Yes
472	1-RC-LT-1311	RVLIS VESSEL LEVEL TRAIN A TRANSMITTER	Energized	Energized	Required FLEX Instruments	ILD-1-RC-L01311	Located in Train B elec. Tuneel, -26'elev.	Yes
473	1-RC-LT-1321	RVLIS VESSEL LEVEL TRAIN B TRANSMITTER	Energized	Energized	Required FLEX Instruments	ILD-1-RC-L01321	Located in Train B elec. Tuneel, -26'elev.	Yes
474	1-MM-IR-51B	EAST PIPECHASE INSTRUMENT RACK 51A	Energized	Energized	Houses Main Steam Pressure Transmitters	FP71704	Located in E. Pipechase, 3' elev.	Yes
475	1-FW-PT-525	SG B PRESSURE TRANSMITTER	Energized	Energized	Located on MM-IR-51B. Eval'd under that item.	FP71704, ILD-1-FW-P00525	Located in E. Pipechase, 3' elev.	No
476	1-FW-PT-535	SG C PRESSURE TRANSMITTER	Energized	Energized	Located on MM-IR-51B. Eval'd under that item.	FP71704, ILD-1-FW-P00535	Located in E. Pipechase, 3' elev.	No
477	1-MM-IR-52B	WEST PIPECHASE INSTRUMENT RACK 52A	Energized	Energized	Houses Main Steam Pressure Transmitters	FP71704	Located in W. Pipechase, 3' elev.	Yes
478	1-FW-PT-515	SG A PRESSURE TRANSMITTER	Energized	Energized	Required FLEX instruments	FP71704, ILD-1-FW-P00515	Located in W. Pipechase, 3' elev.	No
479	1-FW-PT-545	SG D PRESSURE TRANSMITTER	Energized	Energized	Located on MM-IR-52B. Eval'd under that item.	FP71704, ILD-1-FW-P00545	Located in W. Pipechase, 3' elev.	No
480	1-RC-LT-459	PZR LEVEL CHANNEL I TRANSMITTER	Energized	Energized	Required FLEX instruments	509011, FP55316	Located inside containment, 0' elev.	Yes
481	1-RC-LT-460	PZR LEVEL CHANNEL II TRANSMITTER	Energized	Energized	Taking credit for RC-LT-460.	509011, FP55316	Located inside containment, 0' elev.	No
482	1-FW-LT-501	SG A WIDE RANGE LEVEL TRANSMITTER	Energized	Energized	Required FLEX Instruments	ILD-1-FW-L00501	Located inside containment, -26' elev.	Yes
483	1-FW-LT-502	SG B WIDE RANGE LEVEL TRANSMITTER	Energized	Energized	Required FLEX Instruments	ILD-1-FW-L00502	Located inside containment, -26' elev.	Yes
484	1-FW-LT-503	SG C WIDE RANGE LEVEL TRANSMITTER	Energized	Energized	Required FLEX Instruments	ILD-1-FW-L00503	Located inside containment, -26' elev.	Yes
485	1-FW-LT-504	SG D WIDE RANGE LEVEL TRANSMITTER	Energized	Energized	Required FLEX Instruments	ILD-1-FW-L00504	Located inside containment, -26' elev.	Yes
486	1-FW-LT-519	SG A NARROW RANGE LEVEL TRANSMITTER	Energized	Energized	Required FLEX Instruments	NHY-509017, ILD-1-FW-L00519	Located inside containment, 0' elev.	Yes
487	1-MM-IR-6	CONTAINMENT INSTRUMENT RACK 6	Energized	Energized	Housed SG NR level transmitters	FP71679	Located inside containment, 0' elev.	Yes
488	1-FW-LT-529	SG B NARROW RANGE LEVEL TRANSMITTER	Energized	Energized	Located on MM-IR-6, Eval'd under that component.	NHY-509017	Located inside containment, 0' elev.	No
489	1-FW-LT-537	SG C NARROW RANGE LEVEL TRANSMITTER	Energized	Energized	Required FLEX Instruments	NHY-509020, ILD-1-FW-L00537	Located inside containment, 0' elev.	Yes
490	1-MM-IR-8	CONTAINMENT INSTRUMENT RACK 6	Energized	Energized	Housed SG NR level transmitters	FP71683	Located inside containment, 0' elev.	Yes

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491	1-FW-LT-548	SG D NARROW RANGE LEVEL TRANSMITTER	Energized	Energized	Located on MM-IR-8, Eval'd under that component.	NHY-509019, ILD-1-FW-L00548	Located inside containment, 0' elev.	No
FLEX ESEL - Miscellaneous AC Electrical								
492	1-EDE-SWG-5	EMERGENCY BUS E5 SWITCHGEAR	Energized	Energized		NHY-310007	Train A Ess swgr, 21'	Yes
493	1-SEPS-BUS-5-BKR	SEPS FEEDER BREAKER AT BUS 5 <A5A>	Open	Open	Connection point for RRC gensets, Evaluated as part as 1-EDE-SWG-5, Bus 5 switchgear	NHY-310007	Train A Ess swgr, 21'	No
494	1-EDE-SWG-6	EMERGENCY BUS E6 SWITCHGEAR	Energized	Energized		NHY-310008	Train B Ess swgr, 21'	Yes
495	1-SEPS-BUS-6-BKR	SEPS FEEDER BREAKER AT BUS 6 <A7A>	Open	Closed	Evaluated as part as 1-EDE-SWG-6, Bus 6 switchgear	NHY-310102 SH. A7A		No
496	1-SEPS-BUS-6-BKR-86	SEPS BREAKER AT BUS 6 <A7A> 86 LOCKOOUT	Reset	Reset	Evaluated as part as 1-EDE-SWG-6, Bus 6 switchgear	NHY-310102 SH. A7A		No
497	1-SEPS-BUS-6-BKR-CFU	SEPS FEEDER BREAKER 125V DC CLOSING FUSES (2)	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-SWG-6	NHY-310102 SH. A7Ab		No
498	1-SEPS-BUS-6-BKR-TFU	SEPS FEEDER BREAKER 125V DC TRIPPING FUSES (2)	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-SWG-6	NHY-310102 SH. A7Ab		No
499	1-EDE-SWG-6-A75	UNIT SUB 61 PRIMARY FEEDER BREAKER AT BUS 6 <A75>	Closed	Closed	Evaluated as part as 1-EDE-SWG-6, Bus 6 switchgear	NHY-310008		No
500	1-EDE-US-61	UNIT SUB 61	Energized	Energized		NHY-310014	Train A Ess swgr, 21'	Yes
501	1-EDE-X-5-C	UNIT SUB 61 4160-480V TRANSFORMER	Energized	Energized	Evaluated as part as 1-EDE-US-61	NHY-310014		No
502	1-EDE-US-61-AD2	UNIT SUB 61 SECONDARY FEEDER BKR AT US-61 <AD2>	Closed	Closed	Evaluated as part as 1-EDE-US-61	NHY-310014		No
503	1-EDE-US-61-AD6	MCC-612 FEEDER BREAKER AT US-61 <AD6>	Closed	Closed	Evaluated as part as 1-EDE-US-61	NHY-310014		No
504	1-EDE-MCC-612	MOTOR CONTROL CENTER 612	Energized	Energized		NHY-310030	Train A Ess swgr, 21'	Yes
505	1-EDE-BC-1B-BKR-42X	BATTERY CHARGER 1B BREAKER 42X AUX RELAY	Energized	De-energized	Relay re-energized after EPS de-energized & Bus 6 is repowered. Eval'd as part of 1-EDE-MCC-612.	NHY-310107 sh DA1		No
506	1-EDE-BC-1B-BKR-42	BATTERY CHARGER 1B BREAKER 42 CONTACTOR	Energized	De-energized	Contactor re-energized after EPS de-energized & Bus 6 is repowered. Eval'd as part of 1-EDE-MCC-612.	NHY-310107 sh DA1		No
507	1-EDE-BC-1B-BKR-HR9	BATTERY CHARGER 1B BREAKER EPS RELAY HR9	De-energized	Energized	Relay de-energized after de-energizing EPS. Eval'd as part of 1-DG-CP-80.	NHY-310107 sh DA1		No
508	1-EDE-BC-1B-BKR-CB1	BATTERY CHARGER 1B AC INPUT BREAKER CB1	On	On	Eval'd as part of 1-EDE-BC-1B.	FP32685		No
509	1-EDE-BC-1B-BKR-CB2	BATTERY CHARGER 1B DC OUTPUT BREAKER CB2	On	On	Eval'd as part of 1-EDE-BC-1B.	FP32685		No
510	1-EDE-BC-1B-AC-XFMR	BATTERY CHARGER 1B AC INPUT TRANSFORMER T1	Energized	Energized	Eval'd as part of 1-EDE-BC-1B.	FP32685		No

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511	1-EDE-BC-1B-AC-FU	BATTERY CHARGER 1B AC INPUT FUSES F1-F6	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-BC-1B.	FP32685		No
512	1-EDE-BC-1B	BATTERY CHARGER 1B AND INTERNAL HARDWARE	Energized	Energized	Firing modules (AIA, B, & C), A2 Amp board, A3 current sense board, relays (K2, K3, & K4).	FP32685		Yes
513	1-SF-P-10-B-BKR	SPENT FUEL COOLING PUMP 10B BKR AT MCC-612 <BC6>	On	On	Analyzed load for SEPS as part of load evaluation. Eval'd as part of 1-EDE-MCC-612.	NHY-310894 sh BC6		No
514	1-SF-P-10-B-BKR-FU	SF-P-10B BKR 2A CONTROL PWR FUSE AT MCC-612 <BC6>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-612.	NHY-310894 sh BC6		No
515	1-SF-P-10-B-BKR-XFMR	SF-P-10B BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <BC6>	Energized	Energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310894 sh BC6		No
516	1-SF-P-10-B-BKR-42	SF-P-10B BKR 42 DEVICE AT MCC-612 <BC6>	Energized	Energized	Energized if SAF-P-10B in service at time of ELAP event. Eval'd as part of 1-EDE-MCC-612.	NHY-310894 sh BC6		No
517	1-RC-V-323-BKR1	RX HEAD VENT ISOL. PRIMARY BKR AT MCC-612 <BV9>	On	On	Important load used in WOG procedure methodology. Eval'd as part of 1-EDE-MCC-612.	NHY-310882 sh BV9		No
518	1-RC-V-323-BKR2	RX HEAD VENT ISOL. SECONDARY BKR AT MCC-612 <BV9>	On	On	Important load used in WOG procedure methodology. Eval'd as part of 1-EDE-MCC-612.	NHY-310882 sh BV9		No
519	1-RC-V-323-BKR-FU	RC-V-323 BKR 3A CONTROL PWR FUSE AT MCC-612 <BV9>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-612.	NHY-310882 sh BV9		No
520	1-RC-V-323-BKR-XFMR	RC-V-323 BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <BV9>	Energized	Energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310882 sh BV9		No
521	1-RC-V-323-BKR-42-1/O	RC-V-323 DEV. 42-1/O MOTOR STARTER AT MCC-612 <BV9>	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310882 sh BV9		No
522	1-RC-V-323-BKR-42-1/C	RC-V-323 DEV. 42-1/C MOTOR STARTER AT MCC-612 <BV9>	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310882 sh BV9		No
523	1-RC-V-323-BKR-42-2	RC-V-323 DEV. 42-2 MOTOR STARTER AT MCC-612 <BV9>	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310882 sh BV9		No
524	1-CS-V-426-BKR	EMERGENCY BORATION VALVE BKR AT MCC-612 <B94>	On	On	Important load used in WOG procedure methodology. Eval'd as part of 1-EDE-MCC-612.	NHY-310891 sh B94		No
525	1-CS-V-426-BKR-FU	CS-V-426 BKR 2A CONTROL PWR FUSE AT MCC-612 <B94>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-612.	NHY-310891 sh B94		No
526	1-CS-V-426-BKR-XFMR	CS-V-426 BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <B94>	Energized	Energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310891 sh B94		No
527	1-CS-V-426-BKR-42/O	CS-V-426 DEV. 42/O MOTOR STARTER AT MCC-612 <B94>	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310891 sh B94		No

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528	1-CS-V-426-BKR-42/C	CS-V-426 DEV. 42/C MOTOR STARTER AT MCC-612 <B94>	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310891 sh B94		No
529	1-CS-P-3B-BKR	BORIC ACID TRANSFER PUMP 3B BKR AT MCC-612 <B89>	On	On	Important load used in WOG procedure methodology. Eval'd as part of 1-EDE-MCC-612.	NHY-310891 sh B89		No
530	1-CS-P-3B-BKR-FU	CS-P-3B BKR 2A CONTROL PWR FUSE AT MCC-612 <B89>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-612.	NHY-310891 sh B89		No
531	1-CS-P-3B-BKR-XFMR	CS-P-3B BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <B89>	Energized	Energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310891 sh B89		No
532	1-CS-P-3B-BKR-42	CS-P-3B DEV. 42 MOTOR STARTER AT MCC-612 <B89>	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310891 sh B89		No
533	1-CS-P-3-B	BORIC ACID TRANSER PUMP B	Off	Off		NHY-805062	PAB, 25. elev., Boric Acid tank room	Yes
534	1-CS-P-3B-BKR-THERM	CS-P-3B HIGH TEMP THERMAL TECTOR CONTACT AT CS-P-3B	De-energized	De-energized	Contacts open on pump high temperature. Evaluated as part of 1-CS-P-3-B	NHY-310891 sh B89		No
535	1-FAH-FN-11B-BKR	FSB VENTILATION FAN BKR AT MCC-612 <BL2>	On	On	Analyzed load for SEPS as part of load evaluation. Eval'd as part of 1-EDE-MCC-612.	NHY-310929 sh BL2		No
536	1-FAH-FN-11B-BKR-FU	FAH-FN-11B BKR 2A CONTROL PWR FUSE AT MCC-612 <BL2>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-612.	NHY-310929 sh BL2		No
537	1-FAH-FN-11B-BKR-XFMR	FAH-FN-11B BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <BL2>	Energized	Energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310929 sh BL2		No
538	1-FAH-FN-11B-BKR-42X	FAH-FN-11B BREAKER 42X AUX RELAY	Energized	De-energized	Re-energized after Bus 6 re-power & placing fan switch in start. Eval'd as part of 1-EDE-MCC-612.	NHY-310929 sh BL2		No
539	1-FAH-FN-11B-BKR-42	FAH-FN-11B BREAKER 42 CONTACTOR	Energized	De-energized	Re-energized after Bus 6 re-power & placing fan switch in start. Eval'd as part of 1-EDE-MCC-612.	NHY-310929 sh BL2		No
540	1-FAH-DP-12B	FAH-FN-11B OUTLET DAMPER CONTACT 4NC	De-energized	De-energized	Contact de-energized when damper not full closed from relay R1	NHY-310929 sh BL2	Fuel Storage bldg, 64' elev., at Filter 69	Yes
541	1-FAH-FN-11B-BKR-R1	FAH-FN-11B BREAKER AUX RELAY R1	De-energized	De-energized	Re-energized after Bus 6 re-power & placing fan switch in start. Eval'd as part of 1-EDE-MCC-612.	NHY-310929 sh BL2		No
542	1-FAH-FN-11B-BKR-RM0	FAH-FN-11B BREAKER EPS RMO CONTACT	De-energized	De-energized	De-energized after EPS is de-energized & Bus 6 re-power. Eval'd as part of 1-DG-CP-80.	NHY-310929 sh BL2		No
543	1-CAH-FN-3B-BKR1	CAH-FN-3B PRIMARY BKR AT MCC-612 <BC3>	On	On	Analyzed load for SEPS as part of load evaluation. Eval'd as part of 1-EDE-MCC-612.	NHY-310931 sh BC3		No

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544	1-CAH-FN-3B-BKR2	CAH-FN-3B SECONDARY BKR AT MCC-612 <BC3>	On	On	Analyzed load for SEPS as part of load evaluation. Eval'd as part of 1-EDE-MCC-612.	NHY-310931 sh BC3		No
545	1-CAH-FN-3B-BKR-FU	CAH-FN-3B BKR 2A CONTROL PWR FUSE AT MCC-612 <BC3>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-612.	NHY-310931 sh BC3		No
546	1-CAH-FN-3B-BKR-XFMR	CAH-FN-3B BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <BC3>	Energized	Energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310931 sh BC3		No
547	1-CAH-FN-3B-BKR-42X	CAH-FN-3B BREAKER 42X AUX RELAY	De-energized	De-energized	Energized after Bus 6 re-power & placing fan switch in RUN. Eval'd as part of 1-EDE-MCC-612	NHY-310931 sh BC3		No
548	1-CAH-FN-3B-BKR-42	CAH-FN-3B BREAKER 42 MOTOR STARTER	De-energized	De-energized	Energized after Bus 6 re-power & placing fan switch in RUN. Eval'd as part of 1-EDE-MCC-612	NHY-310931 sh BC3		No
549	1-CAH-FN-3B-BKR-R1	CAH-FN-3B BREAKER AUX RELAY R1 AT MCC-612	De-energized	De-energized	Energized in FILTER mode, de-energized in RECIRC mode. Eval'd as part of 1-EDE-MCC-612	NHY-310931 sh BC3		No
550	1-CAH-FY-34B	CAH-DP-34B SOLENOID POWER AT MCC-612 <BC3>	De-energized	De-energized	Energized in FILTER mode, de-energized in RECIRC mode. Eval'd as	NHY-310931 sh BC3		No
551	1-CAH-FY-34D	CAH-DP-34D SOLENOID POWER AT MCC-612 <BC3>	De-energized	De-energized	Energized in FILTER mode, de-energized in RECIRC mode. Eval'd as part of 1-EDE-MCC-612	NHY-310931 sh BC3		No
552	1-EAH-FN-31B-BKR	ENCLOSURE RETURN FAN 31B BKR AT MCC-612 <BC1>	On	On	Analyzed load for SEPS as part of load evaluation. Eval'd as part of 1-EDE-MCC-612.	NHY-310932 sh BC1		No
553	1-EAH-FN-31B-BKR-FU	EAH-FN-31B BKR 2A CONTROL PWR FUSE AT MCC-612 <BC1>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-612.	NHY-310932 sh BC1		No
554	1-EAH-FN-31B-BKR-XFMR	EAH-FN-31B BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <BC1>	Energized	Energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310932 sh BC1		No
555	1-EAH-FN-31B-BKR-42X	EAH-FN-31B BREAKER 42X AUX RELAY	Energized	Energized	Energized after Bus 6 re-power & EAH-FN-5B Start. Eval'd as part of 1-EDE-MCC-612	NHY-310932 sh BC1		No
556	1-EAH-FN-31B-BKR-42	EAH-FN-31B BREAKER 42 MOTOR STARTER	Energized	Energized	Energized after Bus 6 re-power & EAH-FN-5B Start. Eval'd as part of 1-EDE-MCC-612	NHY-310932 sh BC1		No
557	1-EAH-FN-5B-52	EAH-FN-5B BKR 52 CLOSED CONTACT AT US-62 <AF9>	Energized	Energized	Contact closed after Bus 6 re-power & EAH-FN-5B breaker closure. Eval'd as part of 1-EDE-US-62	NHY-310932 sh BC1		No
558	1-EAH-FN-180B-BKR	ENCLOSURE RETURN FAN 180B BKR AT MCC-612 <BS1>	On	On	Analyzed load for SEPS as part of load evaluation. Eval'd as part of 1-EDE-MCC-612.	NHY-310932 sh BC1		No
559	1-EAH-FN-180B-BKR-FU	EAH-FN-180B BKR 2A CONTROL PWR FUSE AT MCC-612 <BS1>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-612.	NHY-310932 sh BC1		No

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560	1-EAH-FN-180B-BKR-XFMR	EAH-FN-180B BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <BS1>	Energized	Energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310932 sh BC1		No
561	1-EAH-FN-180B-BKR-42	EAH-FN-180B BREAKER 42 MOTOR STARTER	Energized	Energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310932 sh BC1		No
562	1-EAH-FN-180B-BKR-R1	EAH-FN-180B BREAKER AUX RELAY R1 AT MCC-612	Energized	Energized	Energized after Bus 6 re-power & Enclosure low pressure. Eval'd as part of 1-EDE-MCC-612.	NHY-310932 sh BC1		No
563	1-EAH-PDIS-5028	ENCLOSURE DIFFERENTIAL PRESSURE SWITCH	De-energized	Energized	Energized contact after containment enclosure pressure low. Eval'd as part of 1-EDE-MCC-612.	NHY-310932 sh BC1		No
564	1-EDE-MCC-612-BKR-E48	1-EDE-MCC-612 DISTR. PANEL XFMR FEED BKR <E48>	Energized	Energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310030		No
565	1-EDE-MCC-612-E48-XFMR	DISTR. PANEL 480-120/240V TRANSFORMER TO <E48>	Energized	Energized	Eval'd as part of 1-EDE-MCC-612.	NHY-310030		No
566	1-EDE-MCC-612-CK2	FAH CONTROL POWER FROM PANEL <E48>, CKT #2	On	On	Eval'd as part of 1-EDE-MCC-612.	NHY-310929 sh E48/2		No
567	1-FAH-FY-5443-2	FAH-DP-13B FUEL HANDLING MODE SOLENOID POWER	De-energized/ closed	Energized/ open	Energized after starting FAH-FN-11B in fuel handling mode	NHY-310929 sh E48/2	Con't enclosure, 32' elev., above entry	Yes
568	1-EDE-US-61-AX9	MCC-615 FEEDER BREAKER AT US-61 <AX9>	Closed	Closed	Eval'd as part of 1-EDE-US-61.	NHY-310014		No
569	1-EDE-MCC-615	MOTOR CONTROL CENTER 615	Energized	Energized		NHY-310067	Train A Ess swgr, 21'	Yes
570	1-FW-FV-4214B-BKR-B3Z	1-FW-FV-4214B, SG A EFW THROTTLE VALVE POWER	On	On	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B3Z		No
571	1-FW-FV-4214B-BKR-FU	FW-FV-4214B BKR 2A CONTROL PWR FUSE AT MCC-615 <B3Z>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B3Z		No
572	1-FW-FV-4214B-BKR-XFMR	FW-FV-4214B BKR 480-120V CONTROL TRANSFORMER AT MCC-615 <B3Z>	Energized	Energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B3Z		No
573	1-FW-FV-4214B-BKR-42/O	FW-FV-4214B BKR OPEN MOTOR STARTER	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B3Z		No
574	1-FW-FV-4214B-BKR-42/C	FW-FV-4214B BKR CLOSED MOTOR STARTER	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B3Z		No
575	1-MM-CP-914B	MM-CP-914B AUX RELAY PANEL	Energized	Energized		NHY-310844 sh. B3Z	Control Bldg, 50' elev., Train B Mech room	Yes
576	1-MM-CP-914B-MSO-1	FW-FV-4214B BKR AUX RELAY MSO-1 AT MM-CP-914B	De-energized	De-energized	Energized when valve is throttled closed. Eval'd as part of 1-MM-CP-914B.	NHY-310844 sh. B3Z		No
577	1-FW-FV-4224B-BKR-B4A	1-FW-FV-4224B, SG B EFW THROTTLE VALVE POWER	On	On	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4A		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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578	1-FW-FV-4224B-BKR-FU	FW-FV-4224B BKR 2A CONTROL PWR FUSE AT MCC-615 <B4A>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4A		No
579	1-FW-FV-4224B-BKR-XFMR	FW-FV-4224B BKR 480-120V CONTROL TRANSFORMER AT MCC-615 <B4A>	Energized	Energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4A		No
580	1-FW-FV-4224B-BKR-42/O	FW-FV-4224B BKR OPEN MOTOR STARTER	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4A		No
581	1-FW-FV-4224B-BKR-42/C	FW-FV-4224B BKR CLOSED MOTOR STARTER	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4A		No
582	1-MM-CP-914B-MSO-2	FW-FV-4224B BKR AUX RELAY MSO-2 AT MM-CP-914B	De-energized	De-energized	Energized when valve is throttled closed. Eval'd as part of 1-MM-CP-914B.	NHY-310844 sh. B4A		No
583	1-FW-FV-4234B-BKR-B4B	1-FW-FV-4234B, SG C EFW THROTTLE VALVE POWER	On	On	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4B		No
584	1-FW-FV-4234B-BKR-FU	FW-FV-4234B BKR 2A CONTROL PWR FUSE AT MCC-615 <B4B>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4B		No
585	1-FW-FV-4234B-BKR-XFMR	FW-FV-4234B BKR 480-120V CONTROL TRANSFORMER AT MCC-615 <B4B>	Energized	Energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4B		No
586	1-FW-FV-4234B-BKR-42/O	FW-FV-4234B BKR OPEN MOTOR STARTER	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4B		No
587	1-FW-FV-4234B-BKR-42/C	FW-FV-4234B BKR CLOSED MOTOR STARTER	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4B		No
588	1-MM-CP-914B-MSO-3	FW-FV-4234B BKR AUX RELAY MSO-3 AT MM-CP-914B	De-energized	De-energized	Energized when valve is throttled closed. Eval'd as part of 1-MM-CP-914B.	NHY-310844 sh. B4B		No
589	1-FW-FV-4244B-BKR-B4C	1-FW-FV-4244B, SG D EFW THROTTLE VALVE POWER	On	On	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4C		No
590	1-FW-FV-4244B-BKR-FU	FW-FV-4244B BKR 2A CONTROL PWR FUSE AT MCC-615 <B4C>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4C		No
591	1-FW-FV-4244B-BKR-XFMR	FW-FV-4244B BKR 480-120V CONTROL TRANSFORMER AT MCC-615 <B4C>	Energized	Energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4C		No
592	1-FW-FV-4244B-BKR-42/O	FW-FV-4244B BKR OPEN MOTOR STARTER	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4C		No
593	1-FW-FV-4244B-BKR-42/C	FW-FV-4244B BKR CLOSED MOTOR STARTER	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh. B4C		No
594	1-MM-CP-914B-MSO-4	FW-FV-4244B BKR AUX RELAY MSO-4 AT MM-CP-914B	De-energized	De-energized	Energized when valve is throttled closed. Eval'd as part of 1-MM-CP-914B.	NHY-310844 sh. B4C		No

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595	1-CC-P-322B-BKR1	CC-P-322B PRIMARY BKR AT MCC-615 <B4Q>	On	On	Analyzed load for SEPS as part of load evaluation. Eval'd as part of 1-EDE-MCC-615.	NHY-310895 sh B4Q		No
596	1-CC-P-322B-BKR2	CC-P-322B SECONDARY BKR AT MCC-615 <B4Q>	On	On	Analyzed load for SEPS as part of load evaluation. Eval'd as part of 1-EDE-MCC-615.	NHY-310895 sh B4Q		No
597	1-CC-P-322B-BKR-FU	CC-P-322B BKR 2A CONTROL PWR FUSE AT MCC-615 <B4Q>	Installed/ connected	Installed/ connected	Eval'd as part of 1-EDE-MCC-615.	NHY-310895 sh B4Q		No
598	1-CC-P-322B-BKR-XFMR	CC-P-322B BKR 480-120V CONTROL TRANSFORMER AT MCC-615 <B4Q>	Energized	Energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310895 sh B4Q		No
599	1-CC-P-322B-BKR-42X	CC-P-322B BREAKER 42X AUX RELAY	De-energized	De-energized	Energized after Bus 6 re-power & placing fan switch in RUN. Eval'd as part of 1-EDE-MCC-615	NHY-310895 sh B4Q		No
600	1-CC-P-322B-BKR-42	CC-P-322B BREAKER 42 MOTOR STARTER	De-energized	De-energized	Energized after Bus 6 re-power if control switch is in RUN	NHY-310895 sh B4Q		No
601	1-EDE-MCC-615-BKR-E3F	1-EDE-MCC-615 DISTR. PANEL XFMR FEED BKR <E3F>	Energized	Energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310067		No
602	1-EDE-MCC-615-E3F-XFMR	DISTR. PANEL 480-120/240V TRANSFORMER TO <E3F>	Energized	Energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310067		No
603	1-EDE-MCC-615-CK1	EFW CONTROL POWER FROM PANEL <E3F>, CKT #1	On	On	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1		No
604	1-FW-FV-4214-4	FW-FV-4214B HIGH FLOW CONTACTS IN FLOW SWITCH	De-energized/ Open	De-energized/ Open	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1e		No
605	1-MM-CP-914B-R1B	FW-FV-4214B HIGH FLOW AUX RELAY R1B	De-energized	De-energized	Eval'd as part of 1-MM-CP-914B.	NHY-310844 sh E3F/1e		No
606	1-FW-FV-4214B-62-1	FW-FV-4214B HIGH FLOW TIME DELAY PICKUP RELAY 62-1	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1a		No
607	1-FW-FV-4214B-R1	FW-FV-4214B HIGH FLOW AUX RELAY R1	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1a		No
608	1-FW-FV-4224-2	FW-FV-4224B HIGH FLOW CONTACTS IN FLOW SWITCH	De-energized/ Open	De-energized/ Open	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1e		No
609	1-MM-CP-914B-R2B	FW-FV-4224B HIGH FLOW AUX RELAY R2B	De-energized	De-energized	Eval'd as part of 1-MM-CP-914B.	NHY-310844 sh E3F/1e		No
610	1-FW-FV-4224B-62-2	FW-FV-4224B HIGH FLOW TIME DELAY PICKUP RELAY 62-2	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1a		No
611	1-FW-FV-4224B-R2	FW-FV-4224B HIGH FLOW AUX RELAY R2	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1a		No
612	1-FW-FV-4234-4	FW-FV-4234B HIGH FLOW CONTACTS IN FLOW SWITCH	De-energized/ Open	De-energized/ Open	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1e		No
613	1-MM-CP-914B-R3B	FW-FV-4234B HIGH FLOW AUX RELAY R3B	De-energized	De-energized	Eval'd as part of 1-MM-CP-914B.	NHY-310844 sh E3F/1e		No

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614	1-FW-FV-4234B-62-3	FW-FV-4234B HIGH FLOW TIME DELAY PICKUP RELAY 62-3	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1a		No
615	1-FW-FV-4234B-R3	FW-FV-4234B HIGH FLOW AUX RELAY R3	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1a		No
616	1-FW-FV-4244-2	FW-FV-4244B HIGH FLOW CONTACTS IN FLOW SWITCH	De-energized/ Open	De-energized/ Open	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1e		No
617	1-MM-CP-914B-R4B	FW-FV-4244B HIGH FLOW AUX RELAY R4B	De-energized	De-energized	Eval'd as part of 1-MM-CP-914B.	NHY-310844 sh E3F/1e		No
618	1-FW-FV-4244B-62-4	FW-FV-4244B HIGH FLOW TIME DELAY PICKUP RELAY 62-4	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1a		No
619	1-FW-FV-4244B-R4	FW-FV-4244B HIGH FLOW AUX RELAY R4	De-energized	De-energized	Eval'd as part of 1-EDE-MCC-615.	NHY-310844 sh E3F/1a		No
620	1-EDE-SWG-6-A83	UNIT SUB 62 PRIMARY FEEDER BREAKER AT BUS 6 <A83>	Closed	Closed	Evaluated as part as 1-EDE-SWG-6, Bus 6 switchgear	NHY-310008		No
621	1-EDE-SWG-6-A83-86	UNIT SUB 62 BREAKER AT BUS 6 <A83> 86 LOCKOOUT	Reset	Reset	Evaluated as part as 1-EDE-SWG-6, Bus 6 switchgear	NHY-310008		No
622	1-EDE-US-62	UNIT SUB 62	Energized	Energized		NHY-310014	Train B Ess swgr, 21'	Yes
623	1-EDE-X-5-D	UNTI SUB 62 4160-480V TRANSFORMER	Energized	Energized	Evaluated as part as 1-EDE-US-62.	NHY-310014		No
624	1-EDE-US-62-AE2	UNIT SUB 62 SECONDARY FEEDER BKR AT US-62 <AE2>	Closed	Closed	Evaluated as part as 1-EDE-US-62.	NHY-310014		No
625	1-EDE-US-62-AE8	MCC-621 FEEDER BREAKER AT US-62 <AE8>	Closed	Closed	Evaluated as part as 1-EDE-US-62.	NHY-310014		No
626	1-EDE-MCC-621	MOTOR CONTROL CENTER 621	Energized	Energized		NHY-310033	Train B Ess swgr, 21'	Yes
627	1-EDE-BC-1D-BKR	BATTERY CHARGER 1D BREAKER AT MCC-621 <DB2>	On	On	Analyzed load for SEPS as part of load evaluation. Evaluated as part as 1-EDE-MCC-621.	NHY-310107 sh DB2		No
628	1-EDE-BC-1D-BKR-42X	BATTERY CHARGER 1D BREAKER 42X AUX RELAY	Energized	De-energized	Relay re-energized after EPS de-energized & Bus 6 is repowered. Eval'd as part of 1-EDE-MCC-621.	NHY-310107 sh DB2		No
629	1-EDE-BC-1D-BKR-42	BATTERY CHARGER 1D BREAKER 42 CONTACTOR	Energized	De-energized	Contactor re-energized after EPS de-energized & Bus 6 is repowered. Eval'd as part of 1-EDE-MCC-621.	NHY-310107 sh DB2		No
630	1-EDE-BC-1D-BKR-HR9	BATTERY CHARGER 1D BREAKER EPS RELAY HR9	De-energized	Energized	Relay de-energized after de-energizing EPS. Eval'd as part of 1-DG-CP-80.	NHY-310107 sh DB2		No
631	1-EDE-BC-1D-BKR-CB1	BATTERY CHARGER 1D AC INPUT BREAKER CB1	On	On	Evaluated as part as 1-EDE-BC-1D	FP32685		No
632	1-EDE-BC-1D-BKR-CB2	BATTERY CHARGER 1D DC OUTPUT BREAKER CB2	On	On	Evaluated as part as 1-EDE-BC-1D	FP32685		No
633	1-EDE-BC-1D-AC-XFMR	BATTERY CHARGER 1D AC INPUT TRANSFORMER T1	Energized	Energized	Evaluated as part as 1-EDE-BC-1D	FP32685		No

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634	1-EDE-BC-1D-AC-FU	BATTERY CHARGER 1D AC INPUT FUSES F1-F6	Installed/ connected	Installed/ connected	Evaluated as part as 1-EDE-BC-1D	FP32685		No
635	1-EDE-BC-1D	BATTERY CHARGER 1D AND INTERNAL HARDWARE	Energized	Energized	Firing modules (AIA, B, & C), A2 Amp board, A3 current sense board, relays	FP32685		Yes
636	1-CBA-FN-32-BKR	TRAIN A SWGR SUPPLY FAN 32 BKR AT MCC-621 <BL3>	On	On	Analyzed load for SEPS as part of load evaluation	NHY-310926 sh BL3		No
637	1-CBA-FN-32-BKR-FU	1-CBA-FN-32 BKR 2A CONTROL PWR FUSE AT MCC-621 <BL3>	Installed/ connected	Installed/ connected	Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh BL3		No
638	1-CBA-FN-32-BKR-XFMR	1-CBA-FN-32 BKR 480-120V CONTROL TRANSFORMER AT MCC-621 <BL3>	Energized	Energized	Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh BL3		No
639	1-CBA-FN-32-BKR-42X	1-CBA-FN-32 BREAKER 42X AUX RELAY	Energized	Energized	Energized after de-energizing EPS & placing switch in START. Evaluated as part as 1-EDE-MCC-621.	NHY-310926 sh BL3		No
640	1-CBA-FN-32-BKR-42	1-CBA-FN-32 BREAKER 42 MOTOR STARTER	Energized	Energized	Energized after de-energizing EPS & placing switch in START. Evaluated as part as 1-EDE-MCC-621.	NHY-310926 sh BL3		No
641	1-CBA-FN-32-BKR-RM0	EPS AUX RELAY RM0 IN DG-CP-80	De-energized	Energized	De-energized after de-energizing EPS. Eval'd as part of 1-DG-CP-80.	NHY-310926 sh BL3		No
642	1-CBA-FN-33-BKR	TRAIN A SWGR RETURN FAN 33 BKR AT MCC-621 <BL4>	On	On	Analyzed load for SEPS as part of load evaluation	NHY-310926 sh BL4		No
643	1-CBA-FN-33-BKR-FU	1-CBA-FN-33 BKR 2A CONTROL PWR FUSE AT MCC-621 <BL4>	Installed/ connected	Installed/ connected	Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh BL4		No
644	1-CBA-FN-33-BKR-XFMR	1-CBA-FN-32 BKR 480-120V CONTROL TRANSFORMER AT MCC-621 <BL4>	Energized	Energized	Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh BL4		No
645	1-CBA-FN-33-BKR-42X	1-CBA-FN-33 BREAKER 42X AUX RELAY	Energized	Energized	Energized after de-energizing EPS & placing switch in START. Evaluated as	NHY-310926 sh BL4		No
646	1-CBA-FN-33-BKR-42	1-CBA-FN-33 BREAKER 42 MOTOR STARTER	Energized	Energized	Energized after de-energizing EPS & placing switch in START	NHY-310926 sh BL4		No
647	1-CBA-FN-33-BKR-RM0	EPS AUX RELAY RM0 IN DG-CP-80	De-energized	Energized	De-energized after de-energizing EPS. Eval'd as part of 1-DG-CP-80.	NHY-310926 sh BL4		No
648	1-CBA-FN-21B-BKR	SWGR BATTERY EXAUST FAN 21B BKR AT MCC-621 <BL5>	On	On	Analyzed load for SEPS as part of load evaluation. Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh BL5		No
649	1-CBA-FN-21B-BKR-FU	1-CBA-FN-21B BKR 2A CONTROL PWR FUSE AT MCC-621 <BL5>	Installed/ connected	Installed/ connected	Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh BL5		No
650	1-CBA-FN-21B-BKR-XFMR	1-CBA-FN-21B BKR 480-120V CONTROL TRANSFORMER AT MCC-621 <BL5>	Energized	Energized	Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh BL5		No
651	1-CBA-FN-21B-BKR-42	1-CBA-FN-21B BREAKER 42 MOTOR STARTER	Energized	Energized	Energized after Bus 6 re-power & CBA-DP-21B not full closed. Eval'd as part as 1-EDE-MCC-621	NHY-310926 sh BL5		No

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652	1-CBA-DP-21B	1-CBA-DP-21B LIMIT SWITCH CONTACT 1NO	Contact closed	Contact closed	Energized after Bus 6 re-power & CBA-DP-21B not full closed	NHY-310926 sh BL5	Control Bldg, 50' elev., Train B Mech room	Yes
653	1-CBA-FN-16B-BKR	CONTROL ROOM EMERG CLEANUP FAN 16B BKR AT MCC-621 <D36>	On	On	Analyzed load for SEPS as part of load evaluation. Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh D36		No
654	1-CBA-FN-16B-BKR-FU	1-CBA-FN-16B BKR 2A CONTROL PWR FUSE AT MCC-621 <D36>	Installed/ connected	Installed/ connected	Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh D36		No
655	1-CBA-FN-16B-BKR-XFMR	1-CBA-FN-16B BKR 480-120V CONTROL TRANSFORMER AT MCC-621 <D36>	Energized	Energized	Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh D36		No
656	1-CBA-FN-16B-BKR-42	1-CBA-FN-16B BREAKER 42 MOTOR STARTER	Energized	Energized	Energized after Bus 6 re-power & CBA-DP-21B not full closed. Eval'd as part as 1-EDE-MCC-621	NHY-310926 sh D36		No
657	1-CBA-DP-27B	1-CBA-DP-27B LIMIT SWITCH CONTACT 4NC	Contact closed	Contact closed	Energized after Bus 6 re-power & CBA-DP-27B not full closed	NHY-310926 sh D36		No
658	1-CBA-P-434B-BKR	TRAIN B CONTROL ROOM AC CHILLER PUMP 434B BKR AT MCC-621 <B6H>	On	On	Analyzed load for SEPS as part of load evaluation. Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh B6H		No
659	1-CBA-P-434B-BKR-FU	1-CBA-P-434B BKR 2A CONTROL PWR FUSE AT MCC-621 <D36>	Installed/ connected	Installed/ connected	Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh B6H		No
660	1-CBA-P-434B-BKR-XFMR	1-CBA-P-434B BKR 480-120V CONTROL TRANSFORMER AT MCC-621 <D36>	Energized	Energized	Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh B6H		No
661	1-CBA-P-434B-BKR-42	1-CBA-P-434B BREAKER 42 MOTOR STARTER	De-energized	Energized	Energized after start command from CBA-AC-178. Evaluated as part as 1-EDE-MCC-621	NHY-310926 sh B6H		No
662	1-CBA-E-230-B	TRAIN B SAFETY RELATED CBA CHILLER UNIT E-230B	Energized	Energized		NHY-202069	DG Bldg, 50' elev., Train B Fan room	Yes
663	1-CBA-E-230B-HW5	TRAIN B AC CHILLER PANEL <HW5>	Energized	Energized	Evaluated as part of 1-CBA-E-230-B	NHY-310926 sh B6H FP 62415		No
664	1-CBA-E-230B-6K13-1	1-CBA-P-434B START SIGNAL AUX RELAY 6K13-1	De-energized	Energized	Energized per start command from CBA-E-230B controls. Eval'd as part of 1-CBA-E-230-B.	NHY-310926 sh B6H FP 62415		No
665	1-CBA-CP-178-BKR	TRAIN B CONTROL ROOM AC BKR AT US-62 <AE4>	Closed	Closed	Analyzed load for SEPS as part of load evaluation. Evaluated as part as 1-EDE-US-62	NHY-310926 sh AE4		No
666	1-CBA-CP-178-BKR-TFU	CBA-CP-178 BKR 15A TRIPPING FUSES (2) AT US-62 <AE4>	Installed/ connected	Installed/ connected	Evaluated as part as 1-EDE-US-62	NHY-310926 sh AE4		No
667	1-CBA-CP-178-BKR-CFU	CBA-CP-178 BKR 15A CLOSING FUSES (2) AT US-62 <AE4>	Installed/ connected	Installed/ connected	Evaluated as part as 1-EDE-US-62	NHY-310926 sh AE4		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
668	1-CBA-CP-178-BKR-RM0	CBA-CP-178 BKR EPS RELAY RM0 AT DG-CP-80	De-energized	De-energized	De-energizes when RM0 reset after completion of EPS stepping. Eval'd as part of 1-DG-CP-80.	NHY-310926 sh AE4		No
669	1-CBA-CP-178	CBA-CP-178 CONTROL PANEL <GU2>	Energized	Energized		NHY-310926 sh AE4i	Control Bldg, 75' elev., CBA Mech room	Yes
670	1-CBA-CP-178-BKR-MNBK	CBA-CP-178 LOCAL MAIN BKR AT <GU2>	On	On	Evaluated as part of 1-CBA-CP-178	NHY-310926 sh AE4i		No
671	1-CBA-CP-178-BKR-CB3	CBA-FN-211B SUPPLY BKR CB3 AT <GU2>	On	On	Evaluated as part of 1-CBA-CP-178	NHY-310926 sh AE4i		No
672	1-CBA-CP-178-BKR-CB3-42	CBA-FN-211B SUPPLY BKR DEV. 42 MOTOR STARTER	On	On	Evaluated as part of 1-CBA-CP-178	NHY-310926 sh AE4i		No
673	1-CBA-CP-178-BKR-CB4	CBA-FN-14B SUPPLY BKR CB4 AT <GU2>	On	On	Evaluated as part of 1-CBA-CP-178	NHY-310926 sh AE4i		No
674	1-CBA-CP-178-BKR-CB4-42	CBA-FN-14B SUPPLY BKR DEV. 42 MOTOR STARTER	On	On	Evaluated as part of 1-CBA-CP-178	NHY-310926 sh AE4i		No
675	1-CBA-CP-178-BKR-CB2	CBA-E-230B CHILLER SUPPLY BKR CB2 AT <GU2>	On	On	Evaluated as part of 1-CBA-CP-178	NHY-310926 sh AE4i		No
676	1-CBA-CP-178-BKR-CB1	CBA-CP-178 CONTROL POWER BKR CB1 AT <GU2>	On	On	Evaluated as part of 1-CBA-CP-178	NHY-310926 sh AE4i		No
677	1-CBA-CP-178-BKR-CB1-XFMR	CBA-CP-178 480-115 VAC TRANSFORMER AT <GU2>	Energized	Energized	Evaluated as part of 1-CBA-CP-178	NHY-310926 sh AE4i		No
678	1-CBA-CP-178-BKR-CB1-FU	CBA-CP-178 CONTROL FUSES A, B, C, D, & E AT <GU2>	Energized	Energized	Evaluated as part of 1-CBA-CP-178	NHY-310926 sh AE4j & k		No
679	1-CBA-CP-178-BKR-CB1-RELAY	CBA-CP-178 CONTROL RELAYS CR7, CR8, CR9, CR10, & TR AT <GU2>	De-energized	De-energized	Energize when AC system placed in service by Operator. Evaluated as part as 1-CBA-CP-178.	NHY-310926 sh AE4j & k		No
680	1-CBA-FY-26B	CBA-FN-14B OUTLET DAMPER SOLENOID POWER	Energized	Energized	Energizes to open and allow start of CBA-FN-14B	NHY-310926 sh AE4k	Control Bldg, 75' elev., CBA Mech room	Yes
681	1-CBA-TCV-21200B	CBA-E-230B TEMP CONTROL VALVE	Energized	Energized		NHY-310926 sh AE4na	Control Bldg, 75' elev., Train B Mech room	Yes
682	1-CBA-TIC-21200B	CBA-E-230B TEMP CONTROLLER	Energized	Energized		NHY-310926 sh AE4na	Control Bldg, 75' elev., Train B Mech room	Yes
683	1-EAH-FN-5B-BKR	TRAIN B ENCLOSURE SUPPLY FAN 5B BKR AT US-62 <AF9>	Closed	Closed	Analyzed load for SEPS as part of load evaluation. Evaluated as part as 1-EDE-US-62	NHY-310932 sh AF9		No
684	1-EAH-FN-5B-BKR-TFU	1-EAH-FN-5B BKR 15A TRIP FUSES (2) AT US-62 <AF9>	Installed/ connected	Installed/ connected	Evaluated as part as 1-EDE-US-62	NHY-310932 sh AF9		No
685	1-EAH-FN-5B-BKR-CFU	1-EAH-FN-5B BKR 15A CLOSING FUSES (2) AT US-62 <AF9>	Installed/ connected	Installed/ connected	Ckt has backup closing fuses in local control. Evaluated as part as 1-EDE-US-62	NHY-310932 sh AF9		No
686	1-EAH-FN-5B-BKR-RM0	EAH-FN-5B BKR EPS RELAY RM0 AT DG-CP-80	De-energized	Energized	De-energizes when is EPS de-energized. Eval'd as part of 1-DG-CP-80.	NHY-310932 sh AF9		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
687	1-EDE-SWG-6-A90	UNIT SUB 63 PRIMARY FEEDER BREAKER AT BUS 6 <A90>	Closed	Closed	Evaluated as part as 1-EDE-SWG-6, Bus 6 switchgear	NHY-310008		No
688	1-EDE-SWG-6-A90-86	UNIT SUB 63 BREAKER AT BUS 6 <A90> 86 LOCKOOUT	Reset	Reset	Evaluated as part as 1-EDE-SWG-6, Bus 6 switchgear	NHY-310008		No
689	1-EDE-US-63	UNIT SUB 63	Energized	Energized		NHY-310014	Train B Ess swgr, 21'	Yes
690	1-EDE-X-5-F	UNTI SUB 63 4160-480V TRANSFORMER	Energized	Energized	Evaluated as part as 1-EDE-US-63.	NHY-310052		No
691	1-EDE-US-63-AF7	UNIT SUB 63 SECONDARY FEEDER BKR AT US-63 <AF7>	Closed	Closed	Evaluated as part as 1-EDE-US-63.	NHY-310052		No
692	1-EDE-US-63-AD8	MCC-631 FEEDER BREAKER AT US-63 <AD8>	Closed	Closed	Evaluated as part as 1-EDE-US-63.	NHY-310052		No
693	1-EDE-MCC-631	MOTOR CONTROL CENTER 631	Energized	Energized		NHY-310032	Train B Ess swgr, 21'	Yes
694	1-CAH-FN-2B-BKR1	CAH-FN-2B PRIMARY BKR AT MCC-631 <BC4>	On	On	Analyzed load for SEPS as part of load evaluation. Evaluated as part as 1-EDE-MCC-631	NHY-310931 sh BC4		No
695	1-CAH-FN-2B-BKR2	CAH-FN-2B SECONDARY BKR AT MCC-631 <BC4>	On	On	Analyzed load for SEPS as part of load evaluation. Evaluated as part as 1-EDE-MCC-631	NHY-310931 sh BC4		No
696	1-CAH-FN-2B-BKR-FU	CAH-FN-2B BKR 2A CONTROL PWR FUSE AT MCC-631 <BC4>	Installed/ connected	Installed/ connected	Evaluated as part as 1-EDE-MCC-631.	NHY-310931 sh BC4		No
697	1-CAH-FN-2B-BKR-XFMR	CAH-FN-2B BKR 480-120V CONTROL TRANSFORMER AT MCC-631 <BC4>	Energized	Energized	Evaluated as part as 1-EDE-MCC-631.	NHY-310931 sh BC4		No
698	1-CAH-FN-2B-BKR-42X	CAH-FN-2B BREAKER 42X AUX RELAY	De-energized	De-energized	Energized after de-energizing EPS & placing fan switch in START. Evaluated as part as 1-EDE-MCC-631.	NHY-310931 sh BC4		No
699	1-CAH-FN-2B-BKR-42	CAH-FN-2B BREAKER 42 MOTOR STARTER	De-energized	De-energized	Energized after de-energizing EPS & placing fan switch in START. Evaluated as part as 1-EDE-MCC-631.	NHY-310931 sh BC4		No
700	1-CAH-FN-2B-BKR-HR9	CAH-FN-2B BREAKER EPS RELAY HR9 CONTACT	De-energized	De-energized	De-energized after de-energizing EPS. Eval'd as part as 1-DG-CP-80..	NHY-310931 sh BC4		No
701	1-CAH-FN-2D-	CAH-FN-2D PRIMARY BKR AT	On	On	Analyzed load for SEPS as part of load	NHY-310931 sh BC5		No
702	1-CAH-FN-2D-BKR2	CAH-FN-2D SECONDARY BKR AT MCC-631 <BC5>	On	On	Analyzed load for SEPS as part of load evaluation. Evaluated as part as 1-EDE-MCC-631.	NHY-310931 sh BC5		No
703	1-CAH-FN-2D-BKR-FU	CAH-FN-2D BKR 2A CONTROL PWR FUSE AT MCC-631 <BC5>	Installed/ connected	Installed/ connected	Evaluated as part as 1-EDE-MCC-631.	NHY-310931 sh BC5		No
704	1-CAH-FN-2D-BKR-XFMR	CAH-FN-2D BKR 480-120V CONTROL TRANSFORMER AT MCC-631 <BC5>	Energized	Energized	Evaluated as part as 1-EDE-MCC-631.	NHY-310931 sh BC5		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	**Equip ID**	**Description**	**Equipment Normal State**	**Equipment Desired State**	**Notes**	**Reference**	**Plant Location**	**Include on ESEL?**
705	1-CAH-FN-2D-BKR-42X	CAH-FN-2D BREAKER 42X AUX RELAY	De-energized	De-energized	Energized after de-energizing EPS & placing fan switch in START. Evaluated as part as 1-EDE-MCC-631.	NHY-310931 sh BC5		No
706	1-CAH-FN-2D-BKR-42	CAH-FN-2D BREAKER 42 MOTOR STARTER	De-energized	De-energized	Energized after de-energizing EPS & placing fan switch in START. Evaluated as part as 1-EDE-MCC-631.	NHY-310931 sh BC5		No
707	1-CAH-FN-2D-BKR-HR9	CAH-FN-2D BREAKER EPS RELAY HR9 CONTACT	De-energized	Energized	De-energized after de-energizing EPS. Eval'd as part as 1-DG-CP-80..	NHY-310931 sh BC5		No
708	1-CS-P-243B-BKR	1-CS-P-243B BKR AT MCC-631 <B85>	On	On	Analyzed load for SEPS as part of load evaluation. Evaluated as part as 1-EDE-MCC-631.	NHY-310891 sh B85		No
709	1-CS-P-243B-BKR-FU	1-CS-P-243B BKR 2A CONTROL PWR FUSE AT MCC-631 <B85>	Installed/ connected	Installed/ connected	Evaluated as part as 1-EDE-MCC-631.	NHY-310891 sh B85		No
710	1-CS-P-243B-BKR-XFMR	1-CS-P-243B BKR 480-120V CONTROL TRANSFORMER AT MCC-631 <B85>	Energized	Energized	Evaluated as part as 1-EDE-MCC-631.	NHY-310891 sh B85		No
711	1-CS-P-243B-BKR-42	1-CS-P-243B BREAKER 42 MOTOR STARTER	De-energized	De-energized	Energized after de-energizing EPS & placing fan switch in START. Evaluated as part as 1-EDE-MCC-631.	NHY-310891 sh B85		No
712	1-CS-P-243B-BKR-TDR	1-CS-P-243B BREAKER AGASTAT TIMING RELAY TDR	De-energized	De-energized	De-energized 30 sec after Charging Pump 2B lube oil pressure is high. Evaluated as part as 1-EDE-MCC-631.	NHY-310891 sh B85		No
713	1-EDE-MCC-631-BKR-E53	1-EDE-MCC-631 DISTR. PANEL XFMR FEED BKR <E53>	Energized	Energized	Evaluated as part as 1-EDE-MCC-631.	NHY-310067		No
714	1-EDE-MCC-631-E53-XFMR	DISTR. PANEL 480-120/240V TRANSFORMER TO <E53>	Energized	Energized	Evaluated as part as 1-EDE-MCC-631.	NHY-310067		No
715	1-EDE-MCC-631-CK18	TRAIN B RVLIS PLASMA DISPLAY AT MCC-631 <E53>, CKT #18	On	On	MCB required FLEX instrumentation. Evaluated as part as 1-EDE-MCC-631.	NHY-310965 sh E53/18		No
FLEX ESEL - Miscellaneous DC Electrical								
716	1-EDE-PP-111-B	VITAL 125V DC PANEL 111B	Energized	Energized		1-NHY-310042	Train B Ess swgr, E. end	Yes
717	1-EDE-PP-111B-MNBK	125V DC PANEL 111B MAIN INPUT BREAEKR	On	On	Evaluated as part of 1-EDE-PP-111-B	1-NHY-310107 E94a		No
718	1-EDE-PP-111B-CK1	BUS E6 125V DC BREAKER OPEN & CLOSE POWER	On	On	Provides breaker close & trip power for Bus 6 loads. Evaluated as part of 1-EDE-PP-111-B	1-NHY-310107 E94a		No
719	1-EDE-PP-111B-CK3	BUS E62 125V DC BREAKER OPEN & CLOSE POWER	On	On	Provides breaker close & trip power for Bus 62 loads. Evaluated as part of 1-EDE-PP-111-B	1-NHY-310107 E94a		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
720	1-DG-CP-80	TRAIN B EPS SEQUENCER CABINET <HR3>	Installed/ connected	Installed/ connected	Provides load sequencing with SEPS for support systems	1-NHY-310108	Train B Ess swgr, West end	Yes
721	1-EDE-PP-111B-CK5	DG-CP-80 125V DC CONTROL POWER	On	On	Cabinet relay power. Evaluated as part of 1-EDE-PP-111-B.	1-NHY-310108 E94/5		No
722	1-DG-CP-80-DCSUP-BKR	DG-CP-80 125V DC LOCAL BREAKER A2CB1	On	On	Cabinet relay power. Evaluated as part of 1-DG-CP-80.	FP 31610		No
723	1-DG-CP-80-FLT-IO	DG-CP-80 125V DC SUPPLY FILTER	In service	In service	Cabinet relay power. Evaluated as part of 1-DG-CP-80.	FP 31610		No
724	1-DG-CP-80-A2PS1	DG-CP-80 15V CABINET POWER SUPPLY PS1	Energized	Energized	Cabinet relay power. Evaluated as part of 1-DG-CP-80.	FP 31610		No
725	1-DG-CP-80-A2PS2	DG-CP-80 15V CABINET POWER SUPPLY PS2	Energized	Energized	Cabinet relay power. Evaluated as part of 1-DG-CP-80.	FP 31610		No
726	1-DG-CP-80-CARD	TRAIN B EPS SEQUENCER CABINET INTERNAL CARDS	Installed/ connected	Installed/ connected	Various functions. Evaluated as part of 1-DG-CP-80.	1-NHY-310108, FP31417, FP31418		No
727	1-EDE-PTB-6-B	BUS E6 BUS PRIMARY SIDE PT FUSES (4) AT Bus 6 <A73>	Installed/ connected	Installed/ connected	Provides sensing for UV relaying. Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73j		No
728	1-EDE-BUS-6-BUSPT-FU1 & 2	BUS E6 BUS SECONDARY SIDE PT FUSES (2) AT Bus 6 <A73>	Installed/ connected	Installed/ connected	Provides sensing for UV relaying. Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73j		No
729	1-EDE-BUS-6-BUSPT-XFMR	BUS E6 4200-120V BUS PT TRANSFORMER <A73>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73j		No
730	1-EDE-BUS-6-27B-1 & 2	BUS E6 UNDERVOLTAGE RELAYS (2) AT BUS 6 <A73>	Energized	De-energized	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e, A73j		No
731	1-EDE-BUS-6-UV-FU	BUS E6 UNDERVOLTAGE CKT DC FUSES (2), DEV, AU, AT BUS 6 <A73>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e, A73j		No
732	1-EDE-BUS-6-UV-62B	BUS E6 UNDERVOLTAGE CKT AGASTAT RELAY 62B	De-energized	Energized	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e, A73j		No
733	1-EDE-BUS-6-UV-62BX-1	BUS E6 UNDERVOLTAGE CKT AUX RELAY 62BX-1	De-energized	Energized	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e, A73j		No
734	1-EDE-BUS-6-A74-52S	BUS E6 DG BREAKER MECH SWITCH 52S CONTACT 73/ 74	Closed	Closed	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e, A73j		No
735	1-EDE-BUS-6-A7A-52S	BUS E6 SEPS BREAKER MECH SWITCH 52S CONTACT 77/ 78	Closed	Closed	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e, A73j		No
736	1-EDE-BUS-6-UV-94-1A	BUS E6 UNDERVOLTAGE STRIPPING RELAY 94-1A	De-energized	Energized	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e		No
737	1-EDE-BUS-6-UV-94-1B	BUS E6 UNDERVOLTAGE STRIPPING RELAY 94-1B	De-energized	Energized	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e		No
738	1-EDE-BUS-6-UV-94-2	BUS E6 UNDERVOLTAGE STRIPPING RELAY 94-2	De-energized	Energized	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e		No
739	1-EDE-BUS-6-UV-94-3	BUS E6 UNDERVOLTAGE STRIPPING RELAY 94-3	De-energized	Energized	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e		No
740	1-EDE-BUS-6-UV-94-4	BUS E6 UNDERVOLTAGE STRIPPING RELAY 94-4	De-energized	Energized	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e		No

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741	1-EDE-BUS-6-UV-94-5	BUS E6 UNDERVOLTAGE STRIPPING RELAY 94-5	De-energized	Energized	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e		No
742	1-EDE-BUS-6-UV-94-6	BUS E6 UNDERVOLTAGE STRIPPING RELAY 94-6	De-energized	Energized	Evaluated as part of 1-EDE-SWG-6.	1-NHY-310102 SH. A73e		No
743	1-EDE-PP-111B-CK17	BUS E64 125V DC BREAKER OPEN & CLOSE POWER	On	On	Provides breaker close & trip power for Bus 64 loads	1-NHY-310107 E94a		No
744	1-EDE-64-DCBKR	BUS E64 LOCAL 125V DC INPUT BREAKER AT US-64 <AW3>	On	On	Provides breaker close & trip power for Bus 64 loads	1-NHY-310103 SH. 5t		No
FLEX ESEL - RCS Makeup (Charging/ Mechanical)								
745	1-CBS-TK-8	Refueling Water Storage Tank	Filled/ Intact	Filled/ Intact	Provide suction to charging pump	1-CBS-B20233	PAB Tank farm, 20' elev	Yes
746	1-CS-LCV-112-E	RWST TO CHARGING PUMP B MOV	Closed	Open	Requires SEPS to Bus 6 power to Open.	1-CBS-B20233	PAB Tank farm, 20' elev., SE section	Yes
747	1-CBS-V-58	RWST TO CHARGING PUMP B CHECK VALVE	Closed	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
748	1-CS-V-217	RWST TO CHARGING PUMP B SUCTION ISOLATION VALVE	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
749	1-CS-P-2B	CHARGING PUMP B	Running/ Standby	Running	Provides RCS Makeup/ Seal injection	1-CS-B20725	PAB, 7' elev., Charging pump B room	Yes
750	1-CS-V-609	CHARGING PUMP B CASING DRAIN	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
751	1-CS-P-2B Gear Drive	CHARGING PUMP B GEAR DRIVE UNIT	Running/ Standby	In Service	Required for Charging pump operation. Evaluated as part of CS-P-2A.	1-CS-B20725		No
752	1-CS-P-2B Oil Cooler	CHARGING PUMP B LUBE OIL COOLER	In Service/ Standby	In Service	Required for Charging pump operation. Evaluated as part of CS-P-2A.	1-CS-B20725		No
753	1-CS-P-2B Lube Oil Filter	CHARGING PUMP B LUBE OIL FILTER	In Service/ Standby	In Service	Required for Charging pump lube oil flow during pump operation. Evaluated as part of CS-P-2A.	1-CS-B20725		No
754	1-CS-P-2B Lube Oil Reservoir	CHARGING PUMP B LUBE OIL RESERVOIR	In Service/ Standby	In Service	Required for Charging pump lube oil flow during pump operation. Evaluated as part of CS-P-2A.	1-CS-B20725		No
755	1-CS-V-199	CHARGING PUMP B RECIRC LINE CHECK VALVE	Open/ Closed	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
756	1-CS-V-211	CHARGING PUMP A RECIRC LINE CHECK VALVE	Open/ Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
757	1-CS-V-197	CHARGING PUMP B RECIRC LINE MOV	Open	Open	Normally Open, screens out as ESEL equipment.	1-CS-B20725		No
758	1-CS-V-251	SEAL WATER HX INLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
759	1-CS-V-860	SEAL WATER HX INLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
760	1-CS-V-194	SEAL WATER HX OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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761	1-CS-V-195	SEAL WATER HX BYPASS ISOLATION	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
762	1-CS-E-5A	SEAL WATER Heat EXCHANGER 5A	In Service/ Standby	In Service	Assumes Bus 5 CC cooling not available. Using CS-E-5B	1-CS-B20726		No
763	1-CS-E-5B	SEAL WATER Heat EXCHANGER 5B	In Service/ Standby	In Service	Required for Charging pump recirc flowpath and cooling	1-CS-B20726	PAB, 7' elev., Demin Alley, West side	Yes
764	1-CS-V-250	SEAL WATER HX LINE RELIEF VALVE	Closed	Closed	Manual Valve, screens out. Interfaces with recirc flowpath	1-CS-B20726		No
765	1-CS-V-133	SEAL WATER RETURN FILTER OUTLET ISOLATION	Open	Open	Manual Valve, screens out. Interfaces with recirc flowpath	1-CS-B20726		No
766	1-CS-V-132	SEAL WATER RETURN FILTER INLET ISOLATION	Open	Open	Manual Valve, screens out. Interfaces with recirc flowpath	1-CS-B20726		No
767	1-CS-V-136	SEAL WATER RETURN FILTER BYPASS ISOLATION	Closed	Closed	Manual Valve, screens out. Interfaces with recirc flowpath	1-CS-B20726		No
768	1-CS-F-3	SEAL WATER RETURN FILTER	In Service	In Service	Interfaces with recirc flowpath	1-CS-B20726	PAB, 7' elev., Demin	Yes
769	1-CS-V-795	SEAL WATER RETURN LINE MANUAL ISOLATION	Open	Open	Manual Valve, screens out. Interfaces with recirc flowpath	1-CS-B20726		No
770	1-CS-V-167	SEAL WATER RETURN LINE CON'T ISOLATION MOV	Open	Open	Bus 5 powered, remains open.	1-CS-B20726		No
771	1-CS-V-168	SEAL WATER RETURN LINE CON'T ISOLATION MOV	Open	Closed	Requires SEPS to Bus 6 power to Close.	1-CS-B20726	Con't -26' elev., S. of recirc sump B, Shield	Yes
772	1-CS-V-242	SEAL WATER RETURN to VCT ISOLATION	Closed	Closed	Manual Valve, screens out. Interfaces with recirc flowpath	1-CS-B20725		No
773	1-CS-V-193	SEAL WATER RETURN to VCT OUTLET ISOLATION	Open	Open	Manual Valve, screens out. Interfaces with recirc flowpath	1-CS-B20725		No
774	1-CS-LCV-112-C	VCT TO CHARGING PUMP B MOV	Open	Closed	Requires SEPS to Bus 6 power to Close.	1-CS-B20725	PAB, 53' elev., in VCT valve room	Yes
775	1-RMW-V-119	RMW/ EMERG. BORATION MAKEUP LINE CHECK VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
776	1-CS-V-442	BA TANK MANUAL MAKEUP TO CHARGING PUMP SUCTION	Closed	Closed	Manual Valve, screens out. Interfaces with recirc flowpath	1-CS-B20729		No
777	1-CBS-V-60	RWST TO CHARGING PUMP a CHECK VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
778	1-CS-V-475	SI/ CHARGING PUMP CROSSCONNECT MOV	Closed	Closed	Normally closed MOV, screens out as ESEL equipment.	1-CS-B20725		No
779	1-RH-V-35	RHR DISCHARGE TO CHARGING PUMP CROSSCONNECT MOV	Closed	Closed	Normally closed MOV, screens out as ESEL equipment.	1-CS-B20725		No
780	1-CS-V-227	SI/ CHARGING PUMP CROSSCONNECT RELIEF VALVE	Closed	Closed		1-CS-B20725		No
781	1-CS-V-200	CHARGING PUMP 2B DISCHARGE CHECK VALVE	Open/ Closed	Open	Manual Valve, screens out. Interfaces with recirc flowpath	1-CS-B20725		No
782	1-CS-V-209	CHARGING PUMP 2A DISCHARGE CHECK VALVE	Open/ Closed	Closed	Manual Valve, screens out. Interfaces with recirc flowpath	1-CS-B20725		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
783	1-CS-V-219	CHARGING PUMP 2B BYPASS ISOLATION TO SEALS	Closed	Closed	Manual Valve, screens out. Interfaces with recirc flowpath	1-CS-B20725		No
784	1-CS-V-221	CHARGING PUMP 2A BYPASS ISOLATION TO SEALS	Closed	Closed	Manual Valve, screens out. Interfaces with recirc flowpath	1-CS-B20725		No
785	1-CS-V-220	CHARGING PUMP 2B DISCHARGE ISOLATION VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
786	1-CS-V-224	CS-FCV-121 INLET ISOLATION VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
787	1-CS-FCV-121	NORMAL CHARGING FLOW CONTROL AOV	Open	Open	Fails open on loss of air. Flowpath not used. Using high head flowpath to cold legs for makeup.	1-CS-B20725		No
788	1-CS-V-224	CS-FCV-121 OUTLET ISOLATION VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
789	1-CS-V-213	CS-P-128 DISCHARGE CHECK VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
790	1-CS-V-138	CS-HCV-182 INLET ISOLATION VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
791	1-CS-HCV-182	RCP SEAL FLOW CONTROL AOV	Open	Open	Fails open on loss of air. ELAP assumes air not available, local actions required.	1-CS-B20725		No
792	1-CS-V-140	CS-HCV-182 OUTLET ISOLATION VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
793	1-CS-V-141	CS-HCV-182 BYPASS ISOLATION VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CS-B20725		No
794	1-CS-V-142	NORMAL CHARGING CON'T ISOLATION MOV	Open	Open	BUS 5 powered, screens out as ESEL equipment.	1-CS-B20725		No
795	1-CS-V-143	NORMAL CHARGING CON'T ISOLATION MOV	Open	Closed	Requires SEPS to Bus 6 power to Close.	1-CS-B20725	PAB, -26' elev., Mech pen, North end	Yes
796	1-CS-V-1254	SEAL INJECTION FILTER 4A INLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
797	1-CS-V-127	SEAL INJECTION FILTER 4A INLET ISOLATION	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
798	1-CS-V-126	SEAL INJECTION FILTER 4A OUTLET ISOLATION	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
799	1-CS-V-1253	SEAL INJECTION FILTER 4A OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
800	1-CS-F-4A	SEAL WATER SUPPLY FILTER 4A	In Standby	In Standby		1-CS-B20726	PAB, 7' elev., Demin	Yes
801	1-CS-V-1252	SEAL INJECTION FILTER 4B INLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
802	1-CS-V-123	SEAL INJECTION FILTER 4BINLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
803	1-CS-V-122	SEAL INJECTION FILTER 4B OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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804	1-CS-V-1251	SEAL INJECTION FILTER 4B OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
805	1-CS-F-4B	SEAL WATER SUPPLY FILTER 4B	In Service	In Service	Only one flowpath required. CS-F-4A considered to be in service.	1-CS-B20726		No
806	1-CS-V-165	RCP 1A SEAL SUPPLY THROTTLE VALVE	Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
807	1-CS-V-166	RCP 1A SEAL SUPPLY ISOLATION MOV	Open	Open	Bus 5 powered, screens out as ESEL equipment.	1-CS-B20726		No
808	1-CS-V-4	RCP 1A SEAL SUPPLY CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
809	1-CS-V-3	RCP 1A SEAL SUPPLY MANUAL ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
810	1-CS-V-2	RCP 1A SEAL SUPPLY CODE CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
811	1-CS-V-471	RCP 1A SEAL SUPPLY CODE CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
812	1-CS-V-161	RCP 1B SEAL SUPPLY THROTTLE VALVE	Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
813	1-CS-V-162	RCP 1B SEAL SUPPLY ISOLATION MOV	Open	Open	Bus 5 powered, screens out as ESEL equipment.	1-CS-B20726		No
814	1-CS-V-20	RCP 1B SEAL SUPPLY CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
815	1-CS-V-19	RCP 1B SEAL SUPPLY MANUAL ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
816	1-CS-V-18	RCP 1B SEAL SUPPLY CODE CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
817	1-CS-V-472	RCP 1B SEAL SUPPLY CODE CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
818	1-CS-V-157	RCP 1C SEAL SUPPLY THROTTLE VALVE	Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
819	1-CS-V-158	RCP 1C SEAL SUPPLY ISOLATION MOV	Open	Open	Bus 5 powered, screens out as ESEL equipment.	1-CS-B20726		No
820	1-CS-V-36	RCP 1C SEAL SUPPLY CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
821	1-CS-V-35	RCP 1C SEAL SUPPLY MANUAL ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
822	1-CS-V-34	RCP 1C SEAL SUPPLY CODE CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
823	1-CS-V-473	RCP 1C SEAL SUPPLY CODE CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
824	1-CS-V-153	RCP 1D SEAL SUPPLY THROTTLE VALVE	Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
825	1-CS-V-154	RCP 1D SEAL SUPPLY ISOLATION MOV	Open	Open	Bus 5 powered, screens out as ESEL equipment.	1-CS-B20726		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
826	1-CS-V-52	RCP 1D SEAL SUPPLY CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
827	1-CS-V-51	RCP 1D SEAL SUPPLY MANUAL ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
828	1-CS-V-50	RCP 1D SEAL SUPPLY CODE CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
829	1-CS-V-474	RCP 1D SEAL SUPPLY CODE CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CS-B20726		No
830	1-CS-V-138	HIGH HEAD COLD LEG SUPPLY MOV	Closed	Closed	Bus 5 powered, normally closed, screens out as ESEL equipment.	1-SI-B20447		No
831	1-SI-V-139	HIGH HEAD COLD LEG SUPPLY MOV	Closed	Open	Requires SEPS to Bus 6 power to Open.	1-SI-B20447	PAB, -26' elev., Mech pen, South end	Yes
832	1-SI-V-239	TEST CONNECTION FOR HIGH HEAD INJECTION	Closed	Open	Manual Valve, screens out as ESEL equipment.	1-SI-B20447	PAB Mech pen, -20' elev.	No
833	1-CS-V-297	HIGH HEAD COLD LEG SUPPLY CHECK VALVE	Removed	Removed	Internals removed, screens out as ESEL equipment.	1-SI-B20447		No
834	1-CS-V-297	HIGH HEAD COLD LEG SUPPLY CHECK VALVE	Closed	Open	Manual Valve, screens out as ESEL equipment.	1-SI-B20447		No
835	1-SI-V-158	HIGH HEAD SUPPLY TEST HEADER AOV	Closed	Closed	Normally closed/ sol. de-energized. Fails closed on loss of air	1-SI-B20447		No
836	1-SI-V-159	HIGH HEAD SUPPLY TEST HEADER AOV	Closed	Closed	Normally closed/ sol. de-energized. Fails closed on loss of air	1-SI-B20447		No
837	1-SI-V-151	HIGH HEAD LOOP 3 BRANCH THROTTLE VALVE	Locked Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-SI-B20447		No
838	1-SI-V-152	HIGH HEAD LOOP 3 BRANCH THROTTLE VALVE	Closed	Open	Manual Valve, screens out as ESEL equipment.	1-SI-B20447		No
839	1-SI-V-147	HIGH HEAD LOOP 2 BRANCH THROTTLE VALVE	Locked Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-SI-B20447		No
840	1-SI-V-148	HIGH HEAD LOOP 2 BRANCH THROTTLE VALVE	Closed	Open	Manual Valve, screens out as ESEL equipment.	1-SI-B20447		No
841	1-SI-V-143	HIGH HEAD LOOP 1 BRANCH THROTTLE VALVE	Locked Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-SI-B20447		No
842	1-SI-V-144	HIGH HEAD LOOP 1 BRANCH THROTTLE VALVE	Closed	Open	Manual Valve, screens out as ESEL equipment.	1-SI-B20447		No
843	1-SI-V-155	HIGH HEAD LOOP 4 BRANCH THROTTLE VALVE	Locked Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-SI-B20447		No
844	1-SI-V-156	HIGH HEAD LOOP 4 BRANCH THROTTLE VALVE	Closed	Open	Manual Valve, screens out as ESEL equipment.	1-SI-B20447		No
FLEX ESEL - RCS Makeup (Charging/ Electrical)								
845	1-CS-P-2B-BKR	CS-P-2B BREAKER AT BUS 6 <A82>	Open/ Closed	Closed	Evaluated as part of 1-EDE-SWG-6	NHY-310891 sh.A82		No
846	1-CS-P-2B-BKR-86	CS-P-2B BREAKER AT BUS 6 <A82> 86 LOCKOUT RELAY	Reset	Reset	Evaluated as part of 1-EDE-SWG-6	NHY-310891 sh. A82		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
847	1-CS-P-2B-BKR-CFU	CS-P-2B FEEDER BREAKER 125V DC CLOSING FUSES (2)	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-SWG-6	NHY-310891 sh. A82b		No
848	1-CS-P-2B-BKR-TFU	CS-P-2B FEEDER BREAKER 125V DC TRIPPING FUSES (2)	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-SWG-6	NHY-310891 sh. A82b		No
849	1-CS-P-2B-BKR-RM0	CS-P-2B BREAKER AT BUS 6 <A82> RMO AUX RELAY	De-energized	Energized	De-energizes when RMO reset after completion of EPS stepping. Evaluated as part of 1-DG-CP-80.	NHY-310891 sh. A82b		No
850	1-CS-LCV-112-E-BKR	CS-LCV-112E BREAKER AT MCC-612 <B79>	On	On	Valve required to open to align CS-P-2B suction to RWST. Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B79		No
851	1-CS-LCV-112-E-BKR-FU	CS-LCV-112E BKR 2A CONTROL PWR FUSE AT MCC-612 <B79>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B79		No
852	1-CS-LCV-112-E-BKR-XFMR	CS-LCV-112E BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <B79>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B79		No
853	1-CS-LCV-112-E-BKR-42/O	CS-LCV-112E DEV. 42/O MOTOR STARTER AT MCC-612 <B79>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B79		No
854	1-CS-LCV-112-E-BKR-42/C	CS-LCV-112E DEV. 42/C MOTOR STARTER AT MCC-612 <B79>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B79		No
855	1-CS-LCV-112-E-BKR-R1	CS-LCV-112E AUX RELAY R1 AT MCC-612 <ED0>	De-energized	Energized	Required to energize to open valve. Eval'd as part of 1-EDE-MCC-612	NHY-310891 sh. B79		No
856	1-CS-LCV-112-C-BKR	CS-LCV-112C BREAKER AT MCC-612 <B83>	On	On	Valve required to close to align CS-P-2B suction to RWST. Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B83		No
857	1-CS-LCV-112-C-BKR-FU	CS-LCV-112C BKR 2A CONTROL PWR FUSE AT MCC-612 <B83>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B83		No
858	1-CS-LCV-112-C-BKR-XFMR	CS-LCV-112C BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <B83>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B83		No
859	1-CS-LCV-112-C-BKR-42/O	CS-LCV-112C DEV. 42/O MOTOR STARTER AT MCC-612 <B83>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B83		No
860	1-CS-LCV-112-C-BKR-42/C	CS-LCV-112C DEV. 42/C MOTOR STARTER AT MCC-612 <B83>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B83		No
861	1-CS-LCV-112-C-BKR-R2	CS-LCV-112C AUX RELAY R2 AT MCC-615 <E3Q>	De-energized	Energized	Required to energize to close valve. Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B83		No
862	1-CS-V-475-BKR	CS-V-475 BREAKER AT MCC-612 <B46>	On	On	Valve required to remain closed to isolate flowpath. Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B46		No
863	1-CS-V-475-BKR-FU	CS-V-475 BKR 2A CONTROL PWR FUSE AT MCC-612 <B46>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B46		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
864	1-CS-V-475-BKR-XFMR	CS-V-475 BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <B46>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B46		No
865	1-CS-V-475-BKR-42/O	CS-V-475 DEV. 42/O MOTOR STARTER AT MCC-612 <B46>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B46		No
866	1-CS-V-475-BKR-42/C	CS-V-475 DEV. 42/C MOTOR STARTER AT MCC-612 <B46>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B46		No
867	1-RH-V-35-BKR	RH-V-35 BREAKER AT MCC-521 <B59>	On	On	Valve required to remain closed to isolate flowpath. Assumes no AC power to Bus 5.	NHY-310887 sh. B59		No
868	1-RH-V-35-BKR-FU	RH-V-35 BKR 2A CONTROL PWR FUSE AT MCC-521 <B59>	Installed/ connected	Installed/ connected	Assumes no AC power to Bus 5.	NHY-310887 sh. B59		No
869	1RH-V-35-BKR-XFMR	RH-V-35 BKR 480-120V CONTROL TRANSFORMER AT MCC-521 <B59>	Energized	Energized	Assumes no AC power to Bus 5.	NHY-310887 sh. B59		No
870	1-RH-V-35-BKR-42/O	RH-V-35 DEV. 42/O MOTOR STARTER AT MCC-521 <B59>	De-energized	De-energized	Assumes no AC power to Bus 5.	NHY-310887 sh. B59		No
871	1-RH-V-35-BKR-42/C	RH-V-35 DEV. 42/C MOTOR STARTER AT MCC-521 <B59>	De-energized	De-energized	Assumes no AC power to Bus 5.	NHY-310887 sh. B59		No
872	1-CS-V-143-BKR	CS-V-143 BREAKER AT MCC-612 <B87>	On	On	Valve required to close to isolate flowpath.	NHY-310891 sh. B87		No
873	1-CS-V-143-BKR-FU	CS-V-143 BKR 2A CONTROL PWR FUSE AT MCC-612 <B87>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B87		No
874	1-CS-V-143-BKR-XFMR	CS-V-143 BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <B87>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B87		No
875	1-CS-V-143-BKR-42/O	CS-V-143 DEV. 42/O MOTOR STARTER AT MCC-612 <B87>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B87		No
876	1-CS-V-143-BKR-42/C	CS-V-143 DEV. 42/C MOTOR STARTER AT MCC-612 <B87>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B87		No
877	1-SI-V-138-BKR	SI-V-138 BREAKER AT MCC521 <B31>	On	On	Valve required to close to isolate flowpath. Assumes no AC power to Bus 5.	NHY-310890 sh. B31		No
878	1-SI-V-138-BKR-FU	SI-V-138 BKR 2A CONTROL PWR FUSE AT MCC-521 <B31>	Installed/ connected	Installed/ connected	Assumes no AC power to Bus 5.	NHY-310890 sh. B31		No
879	1-SI-V-138-BKR-XFMR	SI-V-138 BKR 480-120V CONTROL TRANSFORMER AT MCC-521 <B31>	Energized	Energized	Assumes no AC power to Bus 5.	NHY-310890 sh. B31		No
880	1-SI-V-138-BKR-42/O	SI-V-138 DEV. 42/O MOTOR STARTER AT MCC-521 <B31>	De-energized	De-energized	Assumes no AC power to Bus 5.	NHY-310890 sh. B31		No
881	1-SI-V-138-BKR-42/C	SI-V-138 DEV. 42/C MOTOR STARTER AT MCC-521 <B31>	De-energized	De-energized	Assumes no AC power to Bus 5.	NHY-310890 sh. B31		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
882	1-SI-V-139-BKR	SI-V-139 BREAKER AT MCC-621 <B32>	On	On	Valve required to close to isolate flowpath & open for RCS makeup. Evaluated as part of 1-EDE-MCC-621	NHY-310890 sh. B32		No
883	1-SI-V-139-BKR-FU	SI-V-139 BKR 2A CONTROL PWR FUSE AT MCC-621 <B32>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-621	NHY-310890 sh. B32		No
884	1-SI-V-139-BKR-XFMR	SI-V-139 BKR 480-120V CONTROL TRANSFORMER AT MCC-621 <B32>	Energized	Energized	Evaluated as part of 1-EDE-MCC-621	NHY-310890 sh. B32		No
885	1-SI-V-139-BKR-42/O	SI-V-139 DEV. 42/O MOTOR STARTER AT MCC-621 <B32>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310890 sh. B32		No
886	1-SI-V-139-BKR-42/C	SI-V-139 DEV. 42/C MOTOR STARTER AT MCC-621 <B32>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310890 sh. B32		No
887	1-MM-CP-915B	TRAIN B MSO AUX RELAY PANEL, MM-CP-915B <FN9>	Energized	Energized		NHY-310890 sh. B32	Train B Ess swgr to elec. tunnel, 21' elev.	Yes
888	1-MM-CP-915B-MSO-5	SI-V-139 AUX RELAY MSO-5 AT MM-CP-915B <FN9>	De-energized	Energized	Relay must energize to open valve. Eval'd as part of 1-MM-CP-915B	NHY-310890 sh. B32		No
889	1-CS-V-197-BKR	CS-V-197 BREAKER AT MCC-612 <B86>	On	On	Valve required to be open for pump protection. Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B86		No
890	1-CS-V-197-BKR-FU	CS-V-197 BKR 2A CONTROL PWR FUSE AT MCC-612 <B86>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B86		No
891	1-CS-V-197-BKR-XFMR	CS-V-197 BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <B86>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B86		No
892	1-CS-V-197-BKR-42/O	CS-V-197 DEV. 42/O MOTOR STARTER AT MCC-612 <B86>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B86		No
893	1-CS-V-197-BKR-42/C	CS-V-197 DEV. 42/C MOTOR STARTER AT MCC-612 <B86>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B86		No
894	1-CS-V-168-BKR1	CS-V-168 PRIMARY BREAKER 52-1 AT MCC-612 <B72>	On	On	Valve required to be closed to isolate containment. Evaluated as part of 1-EDE-MCC-612.	NHY-310891 sh. B72		No
895	1-CS-V-168-BKR2	CS-V-168 SECONDARY BREAKER 52-2 AT MCC-612 <B72>	On	On	Valve required to be closed to isolate containment. Evaluated as part of 1-EDE-MCC-612.	NHY-310891 sh. B72		No
896	1-CS-V-168-BKR-FU	CS-V-168 BKR 2A CONTROL PWR FUSE AT MCC-612 <B72>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B72		No
897	1-CS-V-168-BKR-XFMR	CS-V-168 BKR 480-120V CONTROL TRANSFORMER AT MCC-612 <B72>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B72		No
898	1-CS-V-168-BKR-42-1/O	CS-V-168 DEV. 42-1/O MOTOR STARTER AT MCC-612 <B72>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B72		No
899	1-CS-V-168-BKR-42-1/C	CS-V-168 DEV. 42-1/C MOTOR STARTER AT MCC-612 <B72>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B72		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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900	1-CS-V-168-BKR-42-2	CS-V-168 DEV. 42-2 MOTOR STARTER AT MCC-612 <B72>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310891 sh. B72		No
901	1-SI-FY-2416	SI-V-158 SOLENOID VALVE	De-energized	De-energized	Required to be de-energized to close SI-	NHY-310890 sh.		No
902	1-EDE-PP-112B-CK7	SI-V-158 CONTROL POWER AT EDE-PP-112B <E88>, CKT #7	Energized	Energized	Evaluated as part of 1-EDE-PP-112B	NHY-310890 sh. E88/7		No
903	1-EDE-MM-580-FU3 & 4	SI-V-158 CONTROL FUSES FU3 & FU4 AT EDE-MM-580 <E4C>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MM-580	NHY-310890 sh. E88/7		No
904	1-SI-FY-2406	SI-V-159 SOLENOID VALVE	De-energized	De-energized	Required to be de-energized to close SI-V-159. Mounted in valve, eval'd as part of 1-SI-V-159.	NHY-310890 sh. E89/4		No
905	1-ED-PP-122B	125V NON ESSENTIAL DC DISTRIBUTION PANEL	Energized	Energized		NHY-310107 sh. E89A	Train A ess swgr, West of MCC-231	Yes
906	1-ED-PP-122B-CK4	SI-V-159 CONTROL POWER AT EDE-PP-122B <E89>, CKT #4	Energized	Energized	Evaluated as part of 1-ED-PP-122B	NHY-310890 sh. E89/4	Train A ess swgr, West of MCC-231	No
907	1-EDE-MM-583	CON'T PENETRATION FUSE PANEL, EDE-MM-583 <E4F>	Energized	Energized		NHY-310890 sh. E89/4	Train A ess swgr, West of MCC-231	Yes
908	1-EDE-MM-583-FU9 & 10	SI-V-159 CONTROL FUSES FU9 & FU10 AT EDE-MM-583 <E4F>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MM-583	NHY-310890 sh. E89/4		No
909	1-EDE-MM-583-FU11 & 12	SI-V-159 CONTROL FUSES FU11 & FU12 AT EDE-MM-583 <E4F>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MM-583	NHY-310890 sh. E89/4		No
FLEX ESEL - RCS Makeup (Support Systems/ Mechanical)								
910	1-SW-P-110-B	TRAIN B COOLING TOWER PUMP 110B	Standby	Running		1-SW-B20794	Cooling Tower, 46' elev., Pump room	Yes
911	1-SW-EP-41	COOLING TOWER PUMP 110B DISCHARGE EXPANSION JOINT	Installed	Installed	Manual Equipment, screens out as ESEL equipment.	1-SW-B20794		No
912	1-SW-V-24	COOLING TOWER PUMP 110B DISCHARGE CHECK VALVE	Closed	Open	Manual Valve, screens out as ESEL equipment.	1-SW-B20794		No
913	1-SW-V-26	COOLING TOWER PUMP 110B TEST MOV	Locked Closed	Closed	Normally De-energized, screens out as ESEL equipment.	1-SW-B20794		No
914	1-SW-V-25	COOLING TOWER PUMP 110B DISCHARGE MOV	Closed	Open		1-SW-B20794	Cooling Tower, 46' elev., Pipe bridge	Yes
915	1-SW-V-27	COOLING TOWER PUMP 110B RECIRC MOV	Open	Closed	Pump protection	1-SW-B20794	Cooling Tower, 46' elev., Pipe bridge	Yes
916	1-SW-V-140	COOLING TOWER RETURN SPRAY MOV	Open	Closed	Cooling function	1-SW-B20794	Cooling Tower, 46' elev., Outside railing	Yes
917	1-SW-FN-51B	TRAIN B COOLING TOWER FAN	Standby	Running		1-SW-B20794	Cooling Tower, roof	Yes
918	2-SW-FN-51B	TRAIN B COOLING TOWER FAN	Standby	Running		1-SW-B20794	Cooling Tower, roof	Yes
919	1-SW-V-28	SW-P-41B DISCHARGE CHECK VALVE	Open/ Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-SW-B20794		No
920	1-SW-V-30	SW-P-41D DISCHARGE CHECK VALVE	Open/ Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-SW-B20794		No
921	1-SW-V-65	SW-S-11 INLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-SW-B20795		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
922	1-SW-V-67	SW-S-11 OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-SW-B20795		No
923	1-SW-V-66	SW-S-11 BYPASS ISOLATION	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-SW-B20795		No
924	1-SW-S-11	TRAIN B SW STRAINER 11	Installed	Installed		1-SW-B20795	PAB, 53' elev., NW	Yes
925	1-SW-V-12	CC-E-17B INLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-SW-B20795		No
926	1-SW-V-17	CC-E-17B OUTLET ISOLATION MOV	Open	Open	Normally open MOV. Required to be open for cooling function. Screens out as ESEL equipment.	1-SW-B20795		No
927	1-CC-E-17-B	TRAIN B PCCW HEAT EXCHANGER	Installed	Installed	Component cooling function	1-SW-B20795	PAB, 25' elev., NW corner	Yes
928	1-SW-V-73	CC-E-17B PIPING RELIEF VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-SW-B20795		No
929	1-DG-E-42-B	TRAIN B DG HEAT EXCHANGER	Installed	Installed	Flowpath through HX is aligned. Not required with DG 1B not available.	1-SW-B20795		No
930	1-SW-EP-48	DG-E-42B INLET EXPANSION JOINT	Installed	Installed	Manual Equipment, screens out as ESEL equipment.	1-SW-B20795		No
931	1-SW-V-5	T. BLDG LOADS SUPPLY ISOLATION MOV	Open	Closed	Required to Close to protect flowpath	1-SW-B20795	PAB, 64' elev., Strainer room, upper mezz.	Yes
932	1-SW-V-76	T. BLDG LOADS CT RETURN ISOLATION MOV	Closed	Closed	Normally closed MOV. Required to remain closed to protect flowpath. Screens out as ESEL equipment	1-SW-B20795		No
933	1-SW-V-19	TRAIN B SW RETURN TO OCEAN MOV	Open	Closed	Required to Close to protect flowpath	1-SW-B20795	PAB, 25' elev., NW end, 10' up	Yes
934	1-SW-V-23	TRAIN B SW RETURN TO COOLING TOWER MOV	Closed	Open	Required to Open	1-SW-B20795	PAB, 25' elev., NW end, 4' up	Yes
935	1-CC-TK-19-B	TRAIN B PCCW HEAD TANK	Installed	Installed		1-CC-B20211	PAB, 64' elev., NW end	Yes
936	1-CC-V-313	PCCW HEAD TANK RECIRC VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
937	1-CC-V-1276	PCCW HEAD TANK OUTLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
938	1-CC-V-1273	PCCW HEAD TANK OUTLET CROSSCONNECT ISOLATION	Locked Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
939	1-CC-V-301	CC-P-11B SUCTION ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
940	1-CC-P-11B	TRAIN B CC PUMP 11B	Running/ Standby	Running/ Standby	Either CC-P-11B or 11D will be in service.	1-CC-B20211	PAB, 25' elev., Middle, East side	Yes
941	1-CC-V-295	CC-P-11B DISCHARGE CHECK VALVE	Open/ Closed	Open/ Closed	Open if CC-P-11B running, Closed if CC-P-11D running.	1-CC-B20211		No
942	1-CC-V-296	CC-P-11B DISCHARGE ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
943	1-CC-V-300	CC-P-11D SUCTION ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
944	1-CC-P-11D	TRAIN B CC PUMP 11D	Running/ Standby	Running/ Standby	Either CC-P-11B or 11D will be in service. Only one flowpath req'd	1-CC-B20211		No
945	1-CC-V-298	CC-P-11D DISCHARGE CHECK VALVE	Open/ Closed	Open/ Closed	Open if CC-P-11D running, Closed if CC-P-11B running.	1-CC-B20211		No
946	1-CC-V-299	CC-P-11D DISCHARGE ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
947	1-CC-V-1266	PCCW PUMP SUCTION CROSSCONNECT ISOLATION	Locked Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
948	1-CC-V-1303	RM-6515 OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
949	1-CC-V-1301	RM-6515 OUTLET ISOLATION AOV	Open	Open	Required to be closed to isolate flowpath on low head tank level	1-CC-B20211	PAB, 25' elev., NE end, 10 up	Yes
950	1-CC-FY-1301	CC-V-1301 SOLENOID VALVE	Energized/Open	Energized/Open	Required to de-energize to isolate flowpath. Evaluated as part of 1-CC-V-1301.	NHY-310895 sh. E2U/9a		No
951	1-CC-V-483	RM-6515 INLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
952	1-CC-V-986	RM-6515 INLET ISOLATION AOV	Open	Open	Required to be closed to isolate flowpath on low head tank level	1-CC-B20211	PAB, 25' elev., NE end, 10 up	Yes
953	1-CC-FY-986	CC-V-986 SOLENOID VALVE	Energized/Open	Energized/Open	Required to de-energize to isolate flowpath. Evaluated as part of 1-CC-V-986.	NHY-310895 sh. E2U/9a		No
954	1-CC-V-297	CC-E-17B INLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
955	1-CC-V-297	CC-E-17B OUTLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
956	1-CC-TV-2271-1	CC-E-17B OUTLET TEMPERATURE CONTROL AOV	Modulating	Modulating	Cooling Function	1-CC-B20211	PAB, 25' elev., N. end, 18' above floor	Yes
957	1-CC-TV-2271-2	CC-E-17B BYPASS TEMPERATURE CONTROL AOV	Modulating	Modulating	Cooling Function	1-CC-B20211	PAB, 25' elev., N. end, 18' above floor	Yes
958	1-CC-TV-2271-1/2-N2-1	CC TEMP CONTROL VALVES N2 BOTTLE STANTION IN PAB	Installed / Connected	Installed / Connected		1-IA-B20647	PAB, 25' elev., N. end, at stantion	Yes
959	1-CC-TV-2271-1/2-N2-2	CC TEMP CONTROL VALVES N2 BOTTLE STANTION IN PAB	Installed / Connected	Installed / Connected		1-IA-B20647	PAB, 25' elev., N. end, at stantion	Yes
960	1-CC-TV-2271-1/2-N2-3	CC TEMP CONTROL VALVES N2 BOTTLE STANTION IN PAB	Installed / Connected	Installed / Connected		1-IA-B20647	PAB, 25' elev., N. end, at stantion	Yes
961	1-CC-TV-2271-1/2-N2-4	CC TEMP CONTROL VALVES N2 BOTTLE STANTION IN PAB	Installed / Connected	Installed / Connected		1-IA-B20647	PAB, 25' elev., N. end, at stantion	Yes
962	1-IA-MM-747A	CC TEMP CONTROL VALVES N2 SUPPLY BOTTLE	Installed / Connected	Installed / Connected	Evaluated as part of N2 bottle storage stantion	1-IA-B20647		No
963	1-CC-TV-2271-V4E	IA-MM-747A OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No

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964	1-IA-MM-747B	CC TEMP CONTROL VALVES N2 SUPPLY BOTTLE	Installed / Connected	Installed / Connected	Evaluated as part of N2 bottle storage stantion	1-IA-B20647		No
965	1-CC-TV-2271-V4D	IA-MM-747B OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No
966	1-IA-MM-747C	CC TEMP CONTROL VALVES N2 SUPPLY BOTTLE	Installed / Connected	Installed / Connected	Evaluated as part of N2 bottle storage stantion	1-IA-B20647		No
967	1-CC-TV-2271-V4C	IA-MM-747C OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No
968	1-IA-MM-747D	CC TEMP CONTROL VALVES N2 SUPPLY BOTTLE	Installed / Connected	Installed / Connected	Evaluated as part of N2 bottle storage stantion	1-IA-B20647		No
969	1-CC-TV-2271-V4B	IA-MM-747D OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No
970	1-IA-MM-747E	CC TEMP CONTROL VALVES N2 SUPPLY BOTTLE	Installed / Connected	Installed / Connected	Evaluated as part of N2 bottle storage stantion	1-IA-B20647		No
971	1-CC-TV-2271-V4F	IA-MM-747E OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No
972	1-IA-MM-747F	CC TEMP CONTROL VALVES N2 SUPPLY BOTTLE	Installed / Connected	Installed / Connected	Evaluated as part of N2 bottle storage stantion	1-IA-B20647		No
973	1-CC-TV-2271-V4G	IA-MM-747F OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No
974	1-IA-MM-747G	CC TEMP CONTROL VALVES N2 SUPPLY BOTTLE	Installed / Connected	Installed / Connected	Evaluated as part of N2 bottle storage stantion	1-IA-B20647		No
975	1-CC-TV-2271-V4H	IA-MM-747G OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No
976	1-IA-MM-747H	CC TEMP CONTROL VALVES N2 SUPPLY BOTTLE	Installed / Connected	Installed / Connected	Evaluated as part of N2 bottle storage stantion	1-IA-B20647		No
977	1-CC-TV-2271-V4I	IA-MM-747H OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No
978	1-CC-PCV-2271	TEMP CONTROL AOV N2 SUPPLY PRESSURE REGULATOR	Set at 100 psig	Set at 100 psig	Evaluated as part of N2 bottle storage stantion	1-IA-B20647		No
979	1-CC-TV-2271-V4A	TEMP CONTROL AOV N2 SUPPLY ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No
980	1-CC-TY-2271-4-V4	CC-TY-2271-4 I/P AIR ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No
981	1-CC-PCV-2271-1	CC-TY-2271-1 I/P AIR REGULATOR	Installed / Connected	Installed / Connected	Evaluated as part of 1-CC-TV-2271-1/2-N2-1	1-IA-B20647		No
982	1-CC-TY-2271-4	CC-TV-2271-1 POSITIONER I/P	Installed / Connected	Installed / Connected	Evaluated as part of 1-CC-TV-2271-1/2-N2-1	1-IA-B20647		No
983	1-CC-TY-2271-1	CC-TV-2271-1 POSITIONER SIGNAL SUPPLY SOLENOID	Energized/ Air aligned	Energized/ Air aligned	Evaluated as part of 1-CC-TV-2271-1/2-N2-1	1-IA-B20647		No
984	1-CC-TV-2271-1-V4	CC-TV-2271-1 POSITIONER AIR ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No
985	1-CC-TY-2271-5-V4	CC-TY-2271-5 I/P AIR ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
986	1-CC-PCV-2271-2	CC-TY-2271-2 I/P AIR REGULATOR	Installed / Connected	Installed / Connected	Evaluated as part of 1-CC-TV-2271-1/2-N2-1	1-IA-B20647		No
987	1-CC-TY-2271-5-V4	CC-TV-2271-2 POSITIONER I/P	Installed / Connected	Installed / Connected	Evaluated as part of 1-CC-TV-2271-1/2-N2-1	1-IA-B20647		No
988	1-CC-TY-2271-2	CC-TV-2271-2 POSITIONER SIGNAL SUPPLY SOLENOID	Energized/ Air aligned	Energized/ Air aligned	Evaluated as part of 1-CC-TV-2271-1/2-N2-1	1-IA-B20647		No
989	1-CC-TV-2271-2-V4	CC-TV-2271-2 POSITIONER AIR ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-IA-B20647		No
990	1-CC-V-1264	PCCW PUMP DISCHARGE CROSSCONNECT ISOLATION	Locked Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
991	1-CC-V-315	CS-P-2B OIL COOLER PCCW INLET ISOLATION	Locked Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
992	1-CC-V-318	CS-P-2B OIL COOLER PCCW OUTLET ISOLATION	Locked Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
993	1-CC-V-321	CS-P-2B OIL COOLER PCCW RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
994	1-CC-V-1294	CS-P-2B OIL COOLER PCCW OUTLET DRAIN ISOLATION	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
995	1-CC-V-276	EAH-AC-2B COOLING COILS PCCW INLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
996	1-CC-V-279	EAH-AC-2B COOLING COIL PCCW INLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
997	1-CC-V-292	EAH-AC-2B COOLING COIL PCCW OUTLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
998	1-CC-V-278	EAH-AC-2B COOLING COIL PCCW INLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
999	1-CC-V-291	EAH-AC-2B COOLING COIL PCCW OUTLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
1000	1-CC-V-277	EAH-AC-2B COOLING COIL PCCW INLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
1001	1-CC-V-290	EAH-AC-2B COOLING COIL PCCW OUTLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
1002	1-CC-V-284	EAH-AC-2B COOLING COIL PCCW INLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
1003	1-CC-V-287	EAH-AC-2B COOLING COIL PCCW OUTLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
1004	1-CC-V-283	EAH-AC-2B COOLING COIL PCCW INLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
1005	1-CC-V-286	EAH-AC-2B COOLING COIL PCCW OUTLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
1006	1-CC-V-282	EAH-AC-2B COOLING COIL PCCW INLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
1007	1-CC-V-285	EAH-AC-2B COOLING COIL PCCW OUTLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
1008	1-CC-V-444	EAH-AC-2B COOLING COILS PCCW OUTLET ISOLATION	Locked Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
1009	1-CC-V-442	EAH-AC-2B COOLING COILS PCCW RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
1010	1-CC-V-447	WASTE BLDG LOOP SUPPLY ISOLATION AOV	Open	Open	Required to Close to protect Safety related cooling flowpath	1-CC-B20212	PAB, 7' elev., N. end of Demin Alley, 12' up	Yes
1011	1-CC-FY-447	CC-V-447 SOLENOID VALVE	Energized/ Air aligned	Energized/ Air aligned	Located on AOV. Evaluated as part of 1-CC-V-447	NHY-310895 sh. E88/10a		No
1012	1-CC-V-448	WASTE BLDG LOOP RETURN ISOLATION AOV	Open	Open	Required to Close to protect Safety related cooling flowpath	1-CC-B20212	PAB, 7' elev., N. end of Demin Alley, 12' up	Yes
1013	1-CC-FY-448	CC-V-448 SOLENOID VALVE	Energized/ Air aligned	Energized/ Air aligned	Located on AOV. Evaluated as part of 1-CC-V-448	NHY-310895 sh. E88/10a		No
1014	1-CC-V-1142	CS-E-5A PCCW INLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20212		No
1015	1-CC-V-1143	CS-E-5A PCCW OUTLET ISOLATION	Locked Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-CC-B20212		No
1016	1-CC-V-1168	CS-E-5A PCCW RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20212		No
1017	1-CC-V-445	SF COOLING HX 15B PCCW SUPPLY ISOLATION AOV	Open	Open	Required to Close to protect Safety related cooling flowpath	1-CC-B20212	SF Bldg, 22' elev., SF HX area	Yes
1018	1-CC-FY-2040	CC-V-445 SOLENOID VALVE	Energized/ Air aligned	Energized/ Air aligned	Located on AOV. Evaluated as part of 1-CC-V-445	NHY-310895 sh. E88/12a		No
1019	1-SF-E-15B	SF COOLING HX 15B	*In service/ Standby*	*In Service*	*SF Pool cooling function.* SF components out of scope.	1-CC-B20212		No
1020	1-CC-V-172	SF COOLING HX 15B PCCW OUTLET ISOLATION	Locked Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-CC-B20212		No
1021	1-CC-V-171	SF COOLING HX 15B PCCW OUTLET RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20211		No
1022	1-CC-V-837	LOOP B PCCW TO CON'T MANUAL ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1023	1-CC-V-840	LOOP B PCCW TO CON'T PENETRATION RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1024	1-CC-V-176	LOOP B PCCW TO CON'T ISOLATION (IRC) AOV	Open	Open	Required to Close to protect Safety related cooling flowpath	1-CC-B20213	Con't, 0' elev., SW PCCW ppiping area	Yes
1025	1-CC-FY-176	CC-V-176 OPEN AND CLOSE SOLENOIDS, 20-1 & 20-2	De-energized/ Air aligned	De-energized/ Air aligned	Located on AOV. Evaluated as part of 1-CC-V-276	NHY-310895 sh. E2U/4		No
1026	1-CC-V-836	LOOP B PCCW FROM CON'T MANUAL ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1027	1-CC-V-257	LOOP B PCCW FROM CON'T ISOLATION (ORC) AOV	Open	Open	Required to Close to protect Safety related cooling flowpath	1-CC-B20213	PAB, -8' elev., PCCW penetration area	Yes
1028	1-CC-FY-257	CC-V-257 OPEN AND CLOSE SOLENOIDS, 20-1 & 20-2	De-energized/ Air aligned	De-energized/ Air aligned	Located on AOV. Evaluated as part of 1-CC-V-257	NHY-310895 sh. E2U/4		No
1029	1-CC-V-260	CBS-E-16B INLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20213		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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1030	1-CC-V-266	CBS-E-16B OUTLET ISOLATION MOV	Closed	Closed	Normally closed MOV. Isolates flowpath when on RHR cooling. Screens out as ESEL equipment	1-CC-B20213		No
1031	1-CC-V-464	CBS-P-9B PCCW COOLING INLET ISOLATION	Locked Open	Open	Normally aligned, manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1032	1-CC-V-467	CBS-P-9B PCCW COOLING OUTLET ISOLATION	Locked Throttled	Throttled	Normally aligned, manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1033	1-CC-V-463	RH-P-8B PCCW COOLING INLET ISOLATION	Locked Throttled	Throttled	Normally aligned, manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1034	1-CC-V-466	RH-P-8B PCCW COOLING OUTLET ISOLATION	Locked Open	Open	Normally aligned, manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1035	1-CC-V-462	SI-P-6B PCCW COOLING INLET ISOLATION	Locked Throttled	Throttled	Normally aligned, manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1036	1-CC-V-465	SI-P-6B PCCW COOLING OUTLET ISOLATION	Locked Open	Open	Normally aligned, manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1037	1-CC-V-260	RH-E-9B INLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1038	1-CC-V-272	RH-E-9B OUTLET ISOLATION MOV	Closed	Closed	Required for RHR cooling function	1-CC-B20213	Train B RHR vault, 3' elev., above RHR HX	Yes
1039	1-RH-E-9B	TRAIN B RHR HEAT EXCHANGER 9B	Standby	Standby	Required for RHR cooling function	1-CC-B20213	Train B RHR vault, -32' elev., RHR HX room	Yes
1040	1-CC-V-271	RH-E-9B PCCW RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1041	1-CC-V-322	SI-P-6B PCCW RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1042	1-CC-V-269	RH-P-8B PCCW RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1043	1-CC-V-262	CBS-P-9B PCCW RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1044	1-CC-V-264	CBS-E-16B PCCW RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20213		No
1045	1-CC-V-1092	THERMAL BARRIER HX B SUPPLY ISOLATION MOV	Open	Open	Normally open MOV for thermal barrier cooling function. Screen out as ESEL equipment.	1-CC-B20209		No
1046	1-CC-V-1093	THERMAL BARRIER HX B SUPPLY MANUAL ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1047	1-CC-V-1095	THERMAL BARRIER HX B RETURN ISOLATION MOV	Open	Open	Normally open MOV for thermal barrier cooling function. Screen out as ESEL equipment.	1-CC-B20209		No
1048	1-CC-V-1094	THERMAL BARRIER HX B RETURN MANUAL ISOLATION	Locked Throttled	Throttled	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1049	1-CC-V-1112	THERMAL BARRIER HX B RETURN PIPING RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
1050	1-CC-E-153A	LOOP A THEMRAL BARRIER HX	In service	In service	No power for cooling, not considered	1-CC-B20209		No
1051	1-CC-E-153B	LOOP B THEMRAL BARRIER HX	In service	In service		1-CC-B20209	Con't, -26' elev., SW	Yes
1052	1-CC-P-322B	LOOP B THEMRAL BARRIER PUMP	In service	In service		1-CC-B20209	Con't, -26' elev., Inside loop 2 entry	Yes
1053	1-CC-MM-762	THERMAL BARRIER HEAD PIPE RUPTURE DISC	Installed	Installed	Rupture discs screen out as ESEL equipment.	1-CC-B20209		No
1054	1-CC-MM-763	THERMAL BARRIER HEAD PIPE RUPTURE DISC	Installed	Installed	Rupture discs screen out as ESEL equipment.	1-CC-B20209		No
1055	1-CC-V-1072	THERMAL BARRIER PUMP B SUCTION ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1056	1-CC-V-1070	THERMAL BARRIER PUMP B DISCHARGE CHECK VALVE	Open/ Closed	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1057	1-CC-V-1069	THERMAL BARRIER PUMP B DISCHARGE ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1058	1-CC-V-1067	THERMAL BARRIER PUMP A DISCHARGE CHECK VALVE	Open/ Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1059	1-CC-V-1079	THERMAL BARRIER HX B INLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1060	1-CC-V-1087	THERMAL BARRIER HX B OUTLET PIPING RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1061	1-CC-V-1086	THERMAL BARRIER HX A INLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1062	1-CC-V-1098	THERMAL BARRIER HX A OUTLET PIPING RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1063	1-CC-V-1099	THERMAL BARRIER HX A OUTLET ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1064	1-CC-V-236	RCP B THERMAL BARRIER SUPPLY ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1065	1-CC-V-370	RCP B THERMAL BARRIER SUPPLY CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1066	1-CC-V-1156	RCP B THERMAL BARRIER SUPPLY CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1067	1-CC-V-408	RCP B THERMAL BARRIER OUTLET PIPING RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1068	1-CC-V-395	RCP B THERMAL BARRIER RETURN ISOLATION MOV	Open	Open	Normally de-energized open, screens out as ESEL equipment.	1-CC-B20209		No
1069	1-CC-V-114	RCP C THERMAL BARRIER SUPPLY ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1070	1-CC-V-357	RCP C THERMAL BARRIER SUPPLY CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1071	1-CC-V-1155	RCP C THERMAL BARRIER SUPPLY CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
1072	1-CC-V-435	RCP C THERMAL BARRIER OUTLET PIPING RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1073	1-CC-V-438	RCP C THERMAL BARRIER RETURN ISOLATION MOV	Open	Open	Normally de-energized open, screens out as ESEL equipment.	1-CC-B20209		No
1074	1-CC-V-110	RCP A THERMAL BARRIER SUPPLY ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1075	1-CC-V-359	RCP A THERMAL BARRIER SUPPLY CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1076	1-CC-V-1153	RCP A THERMAL BARRIER SUPPLY CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1077	1-CC-V-326	RCP A THERMAL BARRIER OUTLET PIPING RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1078	1-CC-V-428	RCP A THERMAL BARRIER RETURN ISOLATION MOV	Open	Open	Normally de-energized open, screens out as ESEL equipment.	1-CC-B20209		No
1079	1-CC-V-230	RCP D THERMAL BARRIER SUPPLY ISOLATION	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1080	1-CC-V-372	RCP D THERMAL BARRIER SUPPLY CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1081	1-CC-V-1154	RCP D THERMAL BARRIER SUPPLY CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1082	1-CC-V-242	RCP D THERMAL BARRIER OUTLET PIPING RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	1-CC-B20209		No
1083	1-CC-V-439	RCP D THERMAL BARRIER RETURN ISOLATION MOV	Open	Open	Normally de-energized open, screens out as ESEL equipment.	1-CC-B20209		No
FLEX ESEL - RCS Makeup (Support Systems/ Electrical)								
1084	1-SW-P-110B-BKR	SW PUMP 110B BREAKER AT BUS 6 <AU6>	Open	Closed	Evaluated as part of 1-EDE-SWG-6	NHY-301107 SH. AU6		No
1085	1-SW-P-110B-BKR-86	SW-P-110B BREAKER AT BUS 6 <AU6> 86 LOCKOUT RELAY	Reset	Reset	Evaluated as part of 1-EDE-SWG-6	NHY-301107 SH. AU6		No
1086	1-SW-P-110B-BKR-CFU	SW-P-110B FEEDER BREAKER 125V DC CLOSING FUSES (2)	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-SWG-6	NHY-301107 SH. AU6b		No
1087	1-SW-P-110B-BKR-TFU	SW-P-110B FEEDER BREAKER 125V DC TRIPPING FUSES (2)	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-SWG-6	NHY-301107 SH. AU6b		No
1088	1-SW-P-110B-BKR-RMO	SW PUMP 110B BREAKER AUX RELAY RMO	De-energized	Energized	De-energizes when RMO reset after completion of EPS stepping. Eval'd as part of DG-CP-80.	NHY-301107 SH. AU6		No
1089	1-SW-V-26-BKR	SW-V-26 BREAKER AT MCC 641 <CQ8>	Locked Open	Open	Normally De-energized, screens out as ESEL equipment.	NHY-301107 SH. CQ8		No
1090	1-SW-V-25-BKR	SW-V-25 BREAKER AT MCC 641 <CQ7>	Closed	Closed	Must Open to allow system flow. Evaluated as part of 1-EDE-MCC-641	NHY-301107 SH. CQ7		No
1091	1-SW-V-25-BKR-FU	SW-V-25 BKR 2A CONTROL PWR FUSE AT MCC 641 <CQ7>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-641.	NHY-301107 SH. CQ7		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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1092	1-SW-V-25-BKR-XFMR	SW-V-25 BKR 480-120V CONTROL TRANSFORMER AT MCC 641 <CQ7>	Energized	Energized	Evaluated as part of 1-EDE-MCC-641.	NHY-301107 SH. CQ7		No
1093	1-SW-V-25-BKR-42/O	SW-V-25 DEV. 42/O MOTOR STARTER AT MCC 641 <CQ7>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-641.	NHY-301107 SH. CQ7		No
1094	1-SW-V-25-BKR-42/C	SW-V-25 DEV. 42/C MOTOR STARTER AT MCC 641 <CQ7>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-641.	NHY-301107 SH. CQ7		No
1095	1-SW-V-25-BKR-R1	SW-V-25 AUX RELAY R1 AT MCC 641 <CQ7>	De-energized	Energized	Required to energize to open valve. Evaluated as part of 1-EDE-MCC-641	NHY-301107 SH. CQ7		No
1096	1-SW-V-25-BKR-SW-11	SW-V-25 ROTARY CONTACT SWITCH 11 <VM8>	Open	Closed	Required to open SW-V-27 for pump protection. Evaluated as part of 1-EDE-MCC-641	NHY-301107 SH. CQ7b, CQ9a		No
1097	1-SW-V-27-BKR	SW-V-27 BREAKER AT MCC 641 <CQ9>	Closed	Closed	Must Open for pump protection. Evaluated as part of 1-EDE-MCC-641	NHY-301107 SH. CQ9		No
1098	1-SW-V-27-BKR-FU	SW-V-27 BKR 2A CONTROL PWR FUSE AT MCC 641 <CQ9>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-641.	NHY-301107 SH. CQ9		No
1099	1-SW-V-27-BKR-XFMR	SW-V-27 BKR 480-120V CONTROL TRANSFORMER AT MCC 641 <CQ9>	Energized	Energized	Evaluated as part of 1-EDE-MCC-641.	NHY-301107 SH. CQ9		No
1100	1-SW-V-27-BKR-42/O	SW-V-27 DEV. 42/O MOTOR STARTER AT MCC 641 <CQ9>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-641.	NHY-301107 SH. CQ9		No
1101	1-SW-V-27-BKR-42/C	SW-V-27 DEV. 42/C MOTOR STARTER AT MCC 641 <CQ9>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-641.	NHY-301107 SH. CQ9		No
1102	1-SW-V-140-BKR	SW-V-140 BREAKER AT MCC 641 <C3E>	Closed	Closed	Must Close for cooling function. Evaluated as part of 1-EDE-MCC-641	NHY-301107 SH. C3E		No
1103	1-SW-V-140-BKR-FU	SW-V-140 BKR 2A CONTROL PWR FUSE AT MCC 641 <C3E>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-641.	NHY-301107 SH. C3E		No
1104	1-SW-V-140-BKR-XFMR	SW-V-140 BKR 480-120V CONTROL TRANSFORMER AT MCC 641 <C3E>	Energized	Energized	Evaluated as part of 1-EDE-MCC-641.	NHY-301107 SH. C3E		No
1105	1-SW-V-140-BKR-42/O	SW-V-140 DEV. 42/O MOTOR STARTER AT MCC 641 <C3E>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-641.	NHY-301107 SH. C3E		No
1106	1-SW-V-140-BKR-42/C	SW-V-140 DEV. 42/C MOTOR STARTER AT MCC 641 <C3E>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-641.	NHY-301107 SH. C3E		No
1107	1-SW-V-5-BKR	SW-V-5 BREAKER AT MCC 612 <DA2>	Closed	Closed	Must Close to protect cooling flowpath. Evaluated as part of 1-EDE-MCC-612	NHY-301107 SH. DA2		No
1108	1-SW-V-5-BKR-FU	SW-V-5 BKR 2A CONTROL PWR FUSE AT MCC 612 <DA2>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA2		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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1109	1-SW-V-5-BKR-XFMR	SW-V-5 BKR 480-120V CONTROL TRANSFORMER AT MCC 612 <DA2>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA2		No
1110	1-SW-V-5-BKR-42/O	SW-V-5 DEV. 42/O MOTOR STARTER AT MCC 612 <DA2>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA2		No
1111	1-SW-V-5-BKR-42/C	SW-V-5 DEV. 42/C MOTOR STARTER AT MCC 612 <DA2>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA2		No
1112	1-SW-V-76-BKR	SW-V-76 BREAKER AT MCC 612 <BX0>	Closed	Closed	Must remain Closed to protect cooling flowpath. Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. BX0		No
1113	1-SW-V-76-BKR-FU	SW-V-76 BKR 2A CONTROL PWR FUSE AT MCC 612 <BX0>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. BX0		No
1114	1-SW-V-76-BKR-XFMR	SW-V-76 BKR 480-120V CONTROL TRANSFORMER AT MCC 612 <BX0>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. BX0		No
1115	1-SW-V-76-BKR-42/O	SW-V-76 DEV. 42/O MOTOR STARTER AT MCC 612 <BX0>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. BX0		No
1116	1-SW-V-76-BKR-42/C	SW-V-76 DEV. 42/C MOTOR STARTER AT MCC 612 <BX0>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. BX0		No
1117	1-SW-V-17-BKR	SW-V-17 BREAKER AT MCC 612 <DA3>	Closed	Closed	Must remain Open to protect cooling flowpath. Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA3		No
1118	1-SW-V-17-BKR-FU	SW-V-17 BKR 2A CONTROL PWR FUSE AT MCC 612 <DA3>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA3		No
1119	1-SW-V-17-BKR-XFMR	SW-V-17 BKR 480-120V CONTROL TRANSFORMER AT MCC 612 <DA3>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA3		No
1120	1-SW-V-17-BKR-42/O	SW-V-17 DEV. 42/O MOTOR STARTER AT MCC 612 <DA3>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA3		No
1121	1-SW-V-17-BKR-42/C	SW-V-17 DEV. 42/C MOTOR STARTER AT MCC 612 <DA3>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA3		No
1122	1-SW-V-19-BKR	SW-V-19 BREAKER AT MCC 612 <DA4>	Closed	Closed	Must Close to protect cooling flowpath. Evaluated as part of 1-EDE-MCC-612	NHY-301107 SH. DA4		No
1123	1-SW-V-19-BKR-FU	SW-V-19 BKR 2A CONTROL PWR FUSE AT MCC 612 <DA4>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA4		No
1124	1-SW-V-19-BKR-XFMR	SW-V-19 BKR 480-120V CONTROL TRANSFORMER AT MCC 612 <DA4>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA4		No
1125	1-SW-V-19-BKR-42/O	SW-V-19 DEV. 42/O MOTOR STARTER AT MCC 612 <DA4>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA4		No
1126	1-SW-V-19-BKR-42/C	SW-V-19 DEV. 42/C MOTOR STARTER AT MCC 612 <DA4>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA4		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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1127	1-SW-V-19-BKR-R1	SW-V-19 BREAKER AUX RELAY R1 AT MCC 615 <E3Q>	De-energized	Energized	Required to energize to close valve. Evaluated as part of 1-EDE-MCC-615	NHY-301107 SH. DA4		No
1128	1-SW-V-23-BKR	SW-V-23 BREAKER AT MCC 612 <DA5>	Closed	Closed	Must Open to align cooling flowpath. Evaluated as part of 1-EDE-MCC-612	NHY-301107 SH. DA5		No
1129	1-SW-V-23-BKR-FU	SW-V-23 BKR 2A CONTROL PWR FUSE AT MCC 612 <DA5>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA5		No
1130	1-SW-V-23-BKR-XFMR	SW-V-23 BKR 480-120V CONTROL TRANSFORMER AT MCC 612 <DA5>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA5		No
1131	1-SW-V-23-BKR-42/O	SW-V-23 DEV. 42/O MOTOR STARTER AT MCC 612 <DA5>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA5		No
1132	1-SW-V-23-BKR-42/C	SW-V-23 DEV. 42/C MOTOR STARTER AT MCC 612 <DA5>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612.	NHY-301107 SH. DA5		No
1133	1-EDE-SWG-6-AU7	UNIT SUB 64 PRIMARY FEEDER BREAKER AT BUS 6 <AU7>	Closed	Closed	Evaluated as part of 1-EDE-SWG-6	NHY-310008		No
1134	1-EDE-SWG-6-AU7-86	UNIT SUB 64 BKR AT BUS 6 <AU7> 86 LOCKOUT RELAY	Reset	Reset	Evaluated as part of 1-EDE-SWG-6	NHY-301107 SH. AU6		No
1135	1-EDE-US-64	UNIT SUB 64	Energized	Energized		NHY-301704	Cooling Twr, Elec Rm	Yes
1136	1-EDE-X-5-H	UNIT SUB 64 4160-480V TRANSFORMER	Energized	Energized	Evaluated as part of 1-EDE-US-64	NHY-301704		No
1137	1-EDE-US-64-AW2	UNIT SUB 64 SECONDARY FEEDER BKR AT US-64 <AW2>	Closed	Closed	Evaluated as part of 1-EDE-US-64	NHY-301704		No
1138	1-EDE-US-64-AW6	MCC-641 FEEDER BREAKER AT US-64 <AW6>	Closed	Closed	Evaluated as part of 1-EDE-US-64	NHY-301704		No
1139	1-EDE-MCC-641	MOTOR CONTROL CENTER MCC-641	Energized	Energized		NHY-301706	Cooling Tower, 22' elev., Tain B Elec Rm	Yes
1140	1-SW-FN-51B-BKR	CT FAN 51B BREAKER AT US-64 <AW4>	Open	Open	Must Close to support cooling function. Evaluated as part of 1-EDE-US-64	NHY-301107 SH. AW4		No
1141	1-SW-FN-51B-BKR-CFU	CT FAN 51B BREAKER CLOSING FUSES (2) AT US-64 <AW4>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-US-64	NHY-301107 SH. AW4b		No
1142	1-SW-FN-51B-BKR-TFU	CT FAN 51B BREAKER TRIPPING FUSES (2) AT US-64 <AW4>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-US-64	NHY-301107 SH. AW4b		No
1143	1-SW-FN-51B-BKR-RMO	CT FAN 51B BREAKER AUX RELAY RMO CONTACT 7/8	De-energized	Energized	Evaluated as part of 1-DG-CP-80.	NHY-301107 SH. AW4b		No
1144	2-SW-FN-51B-BKR	UNIT 2 CT FAN 51B BREAKER AT US-64 <AW5>	Open	Open	Must Close to support cooling function. Evaluated as part of 1-EDE-US-64	NHY-301107 SH. AW5		No
1145	2-SW-FN-51B-BKR-CFU	UNIT 2 CT FAN 51B BREAKER CLOSING FUSES (2) AT US-64 <AW4>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-US-64	NHY-301107 SH. AW5		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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1146	2-SW-FN-51B-BKR-TFU	UNIT 2 CT FAN 51B BREAKER TRIPPING FUSES (2) AT US-64 <AW4>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-US-64	NHY-301107 SH. AW5		No
1147	2-SW-FN-51B-BKR-RMO	UNIT 2 CT FAN 51B BREAKER AUX RELAY RMO CONTACT 7/8	De-energized	Energized	Evaluated as part of 1-DG-CP-80.	NHY-301107 SH. AW5		No
1148	1-CC-P-11B-BKR	PCCW PUMP 11B BREAKER AT BUS 6 <A78>	Open	Closed	Evaluated as part of 1-EDE-SWG-6	NHY-310895 SH. A78		No
1149	1-CC-P-11B-BKR-86	CC-P-11B BREAKER AT BUS 6 <A78> 86 LOCKOUT RELAY	Reset	Reset	Evaluated as part of 1-EDE-SWG-6	NHY-301107 SH. A78		No
1150	1-CC-P-11B-BKR-CFU	CC-P-11B FEEDER BREAKER 125V DC CLOSING FUSES (2)	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-SWG-6	NHY-310895 SH. A78b		No
1151	1-CC-P-11B-BKR-TFU	CC-P-11B FEEDER BREAKER 125V DC TRIPPING FUSES (2)	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-SWG-6	NHY-310895 SH. A78b		No
1152	1-CC-P-11B-BKR-RMO	CC-P-11B BREAKER AUX RELAY RMO	De-energized	Energized	De-energizes when RMO reset after completion of EPS stepping. Evaluated as part of 1-DG-CP-80.	NHY-310895 SH. A78b		No
1153	1-CC-P-11B-BKR-TDRX	CC-P-11B/D HIGH TEMP TRIPPING AUX RELAY TDRX AT MCC-615 <E3D>	De-energized/ Closed	De-energized/ Closed	Relay contacts must remain closed to allow pump to start. Evaluated as part of 1-EDE-MCC-615.	NHY-310895 SH. A78b, A79b, E50/12		No
1154	1-CC-P-11D-BKR	PCCW PUMP 11D BREAKER AT BUS 6 <A78>	Open	Closed	Takes credit for CC-P-11B, not listed.	NHY-310895 SH. A79		No
1155	1-CC-P-11B-BKR-86	CC-P-11B BREAKER AT BUS 6 <A78> 86 LOCKOUT RELAY	Reset	Reset	Takes credit for CC-P-11B, not listed.	NHY-301107 SH. A78		No
1156	1-CC-P-11D-BKR-CFU	CC-P-11D FEEDER BREAKER 125V DC CLOSING FUSES (2)	Installed/ connected	Installed/ connected	Takes credit for CC-P-11B, not listed.	NHY-310895 SH. A79b		No
1157	1-CC-P-11D-BKR-TFU	CC-P-11D FEEDER BREAKER 125V DC TRIPPING FUSES (2)	Installed/ connected	Installed/ connected	Takes credit for CC-P-11B, not listed.	NHY-310895 SH. A79b		No
1158	1-CC-P-11D-BKR-RMO	CC-P-11D BREAKER AUX RELAY RMO	De-energized	Energized	Takes credit for CC-P-11B, not listed.	NHY-310895 SH. A79b		No
1159	1-CC-T2271-1/2-R1	CC TEMP CONTROL CIRCUIT AUX RELAY R1 AT EDE-CP-249 <GN0>	Energized	Energized	Relay must remain energized to allow MCB control of AOVs. Evaluated as part of 1-EDE-CP-249.	NHY-310895 SH. E2U/3		No
1160	1-EDE-PP-113-B-CK9	CC-V-986 & 1301 SOLENOID POWER	On	On	Required to de-energize to fail closed AOVs to protect cooling flowpath. Eval'd as part of 1-EDE-PP-113B.	NHY-310895 SH. E2U/9		No
1161	1-EDE-PP-112-B-CK10	CC-V-447 & 448 SOLENOID POWER	On	On	Required to de-energize to fail closed AOVs to protect cooling flowpath. Eval'd as part of 1-EDE-PP-112B	NHY-310895 SH. E88/10a		No
1162	1-CC-V-266-BKR	CBS HX COOLING MOV AT MCC-612 <BY9>	On	On	Required to remain closed to protect cooling flowpath for RHR. Evaluated as part of 1-EDE-MCC-612.	NHY-310895 SH. BY9		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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1163	1-CC-V-266-BKR-FU	CC-V-266 BKR 2A CONTROL PWR FUSE AT MCC 612 <BY9>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612	NHY-310895 SH. BY9		No
1164	1-CC-V-266-BKR-XFMR	CC-V-266 BKR 480-120V CONTROL TRANSFORMER AT MCC 612 <BY9>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612	NHY-310895 SH. BY9		No
1165	1-CC-V-266-BKR-42/O	CC-V-266 DEV. 42/O MOTOR STARTER AT MCC 612 <BY9>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310895 SH. BY9		No
1166	1-CC-V-266-BKR-42/C	CC-V-266 DEV. 42/C MOTOR STARTER AT MCC 612 <BY9>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310895 SH. BY9		No
1167	1-CC-V-272-BKR	RHR HX COOLING MOV AT MCC-612 <BY8>	On	On	Required to Open for cooling function for RHR. Evaluated as part of 1-EDE-MCC-612	NHY-310895 SH. BY8		No
1168	1-CC-V-272-BKR-FU	CC-V-272 BKR 2A CONTROL PWR FUSE AT MCC 612 <BY8>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-612	NHY-310895 SH. BY8		No
1169	1-CC-V-272-BKR-XFMR	CC-V-272 BKR 480-120V CONTROL TRANSFORMER AT MCC 612 <BY8>	Energized	Energized	Evaluated as part of 1-EDE-MCC-612	NHY-310895 SH. BY8		No
1170	1-CC-V-272-BKR-42/O	CC-V-272 DEV. 42/O MOTOR STARTER AT MCC 612 <BY8>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310895 SH. BY8		No
1171	1-CC-V-272-BKR-42/C	CC-V-272 DEV. 42/C MOTOR STARTER AT MCC 612 <BY8>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-612	NHY-310895 SH. BY8		No
1172	1-CC-V-272-BKR-R1	CC-V-272 BREAKER AUX RELAY R1 AT MCC 612 <BY8>	De-energized	De-energized	Required to energize to close valve. Evaluated as part of 1-EDE-MCC-612	NHY-310895 SH. BY8		No
1173	1-EDE-PP-113-B-CK4	CC-V-176 & 257 SOLENOID POWER	On	On	Required to energize close solenoids to isolate containment. Evaluated as part of 1-EDE-PP-113B	NHY-310895 SH. E2U/4		No
1174	1-EDE-MM-580 FU15 & 16	CC-V-176 & 257 POWER SUPPLY FUSES FU15 & FU16 AT EDE-MM-580 <E4C>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MM-580	NHY-310895 SH. E2U/4		No
1175	1-CC-V-1092-BKR	THERM BARRRIER HX COOLING MOV AT MCC-615 <B4P>	On	On	Required to remain Open for cooling function for RCP seals. Evaluated as part of 1-EDE-MCC-615	NHY-310895 SH. B4P		No
1176	1-CC-V-1092-BKR-FU	CC-V-1092 BKR 2A CONTROL PWR FUSE AT MCC 615 <B4P>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-615	NHY-310895 SH. B4P		No
1177	1-CC-V-1092-BKR-XFMR	CC-V-1092 BKR 480-120V CONTROL TRANSFORMER AT MCC 615 <B4P>	Energized	Energized	Evaluated as part of 1-EDE-MCC-615	NHY-310895 SH. B4P		No
1178	1-CC-V-1092-BKR-42-1/O	CC-V-1092 DEV. 42-1/O MOTOR STARTER AT MCC 615 <B4P>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-615	NHY-310895 SH. B4P		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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1179	1-CC-V-1092-BKR-42-1/C	CC-V-1092 DEV. 42-1/C MOTOR STARTER AT MCC 615 <B4P>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-615	NHY-310895 SH. B4P		No
1180	1-CC-V-1095-BKR	THERM BARRRIER HX COOLING MOV AT MCC-615 <B4N>	On	On	Required to remain Open for cooling function for RCP seals. Evaluated as part of 1-EDE-MCC-615	NHY-310895 SH. B4N		No
1181	1-CC-V-1095-BKR-FU	CC-V-1095 BKR 2A CONTROL PWR FUSE AT MCC 615 <B4N>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-615	NHY-310895 SH. B4N		No
1182	1-CC-V-1095-BKR-XFMR	CC-V-1095 BKR 480-120V CONTROL TRANSFORMER AT MCC 615 <B4N>	Energized	Energized	Evaluated as part of 1-EDE-MCC-615	NHY-310895 SH. B4N		No
1183	1-CC-V-1095-BKR-42-1/O	CC-V-1095 DEV. 42-1/O MOTOR STARTER AT MCC 615 <B4N>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-615	NHY-310895 SH. B4N		No
1184	1-CC-V-1095-BKR-42-1/C	CC-V-1095 DEV. 42-1/C MOTOR STARTER AT MCC 615 <B4N>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-615	NHY-310895 SH. B4N		No
1185	1-CC-V-395-BKR	RCP B THERM BARRIER ISOL. MOV AT MCC-612 <BY5>	Off	Off	Normal de-energized, screens out as ESEL equipment.	NHY-310895 SH. BY5		No
1186	1-CC-V-438-BKR	RCP C THERM BARRIER ISOL. MOV AT MCC-612 <BY6>	Off	Off	Normal de-energized, screens out as ESEL equipment.	NHY-310895 SH. BY6		No
1187	1-CC-V-428-BKR	RCP A THERM BARRIER ISOL. MOV AT MCC-612 <BY4>	Off	Off	Normal de-energized, screens out as ESEL equipment.	NHY-310895 SH. BY4		No
1188	1-CC-V-439-BKR	RCP D THERM BARRIER ISOL. MOV AT MCC-612 <BY7>	Off	Off	Normal de-energized, screens out as ESEL equipment.	NHY-310895 SH. BY7		No
FLEX ESEL - Spent Fuel Pool Cooling (Mechanical)								
1189	1-CBS-V-35	RWST EMERGENCY MAKEUP TO SF POOL ISOLATION	Closed	Closed	Manual Valve, screens out as ESEL equipment.	CBS-B20233		No
1190	1-CBS-V-61	RWST EMERGENCY MAKEUP TO SF POOL ISOLATION	Closed	Closed	Manual Valve, screens out as ESEL equipment.	SF-B20482		No
1191	1-SF-F-227	SF POOL COOLING PUMP SUCTION STRAINER	Installed/ connected	Installed/ connected	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No
1192	1-SF-V-1	SF POOL COOLING PUMP B SUCTION ISOLATION	Open	Open	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No
1193	1-SF-V-3	SF POOL COOLING PUMP B DISCHARGE CHECK VALVE	Open/ Closed	Open	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No
1194	1-SF-V-4	SF POOL COOLING PUMP B DSICHARGE ISOLATION	Open/ Closed	Open	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No
1195	1-SF-P-10B	SF POOL COOLING PUMP B	Running/ In Standby	Running	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No
1196	1-SF-V-68	SF POOL HX 15C CROSSCONNECT ISOLATION	Closed	Closed	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No

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1197	1-SF-V-14	SF COOLING CROSSCONNECT ISOLATION TO PURIFICATION	Closed	Closed	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No
1198	1-SF-V-8	SF POOL COOLING PUMP A DSICHARGE ISOLATION	Open/ Closed	Closed	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No
1199	1-SF-V-198	SF POOL COOLING PUMP C DSICHARGE ISOLATION	Closed	Closed	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No
1200	1-SF-V-73	SF POOL COOLING HX 15B OUTLET ISOLATION	Open/ Closed	Closed	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No
1201	1-SF-V-73	SF POOL COOLING HX 15C OUTLET ISOLATION	Closed	Closed	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No
1202	1-SF-V-11	SF POOL COOLING HX 15A OUTLET ISOLATION	Open/ Closed	Open	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No
1203	1-SF-V-45	SF POOL COOLING HX 15A RELIEF VALVE	Closed	Closed	SFP components not applicable to ESEL list per EPRI guidelines.	SF-B20482		No
FLEX ESEL - Residual Heat Removal (Mechanical)								
1204	1-RH-P-8B	TRAIN B RHR PUMP 8B	Standby	Standby		RH-B20663	Train B RHR vault, -61'	Yes
1205	1-RH-E-188B	TRAIN B RHR PUMP SEAL WATER HX	In Service	In Service	Evaluated as part of RH-P-8B	RH-B20663		No
1206	1-CBS-V-5	RWST OUTLET TO RHR/ CBS SUCTION ISOLATION MOV	Open	Open	Required to Close to align RHR pump to RCS Hot legs	CBS-B20233	Train B RHR vault, -18' elev., One flight down	Yes
1207	1-CBS-V-24	RWST SUPPLY TO RHR PUMP SUCTION ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	CBS-B20233		No
1208	1-CBS-V-150	RWST SUPPLY TO RHR PUMP SUCTION RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	CBS-B20233		No
1209	1-CBS-V-146	RWST SUPPLY TO RHR PUMP SUCTION CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	CBS-B20233		No
1210	1-CBS-V-56	RWST SUPPLY TO RHR PUMP SUCTION CHECK VALVE	Open	Open	Manual Valve, screens out as ESEL equipment.	CBS-B20233		No
1211	1-CBS-V-148	CONT' SUMP SUPPLY TO RHR PUMP SUCTION CHECK VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	CBS-B20233		No
1212	1-CBS-V-25	CONT' SUMP SUPPLY TO RHR PUMP SUCTION CHECK VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	CBS-B20233		No
1213	1-RH-V-53	LOOP 4 HOT LEG RECIRC SUPPLY CHECK VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	RC-B20844		No
1214	1-RC-V-87	LOOP 4 HOT LEG SUPPLY TO RHR SUCTION MOV	Closed	Closed	Required to Open for RHR operation. Normally de-energized closed MOV, screens out as ESEL equip.	RC-B20844		No
1215	1-RC-V-88	LOOP 4 HOT LEG SUPPLY TO RHR SUCTION MOV	Closed	Closed	Required to Open for RHR operation. Normally de-energized closed MOV, screens out as ESEL equip.	RC-B20844		No

FLEX Expedited Seismic Evaluation List (ESEL)								
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1216	1-RC-V-361	LOOP 4 HOT LEG SUPPLY TO RHR SUCTION RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	RC-B20844		No
1217	1-RC-V-89	LOOP 4 HOT LEG SUPPLY TO RHR SUCTION RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	RC-B20844		No
1218	1-CS-V-829	TRAIN B RHR SLIPSTREAM RETURN ISOLATION	Closed	Closed	Manual Valve, screens out as ESEL equipment.	RH-B20663		No
1219	1-RH-FCV-611	TRAIN B RHR MINIFLOW ISOLATION MOV	Open	Open	Provides pump protection	RH-B20663	Train B RHR vault, -32' elev., RHR HX room	Yes
1220	1-RH-FE-611	TRAIN B RHR MINIFLOW FLOW ELEMENT	In Service	In Service	Provides pump protection	RH-B20663	Train B RHR vault, -61' elev., RHR pump room	Yes
1221	1-RH-FIS-611	TRAIN B RHR MINIFLOW FLOW TRANSMITTER	In Service	In Service	Provides pump protection	RH-B20663	Train B RHR vault, -61' elev., CBS pump room	Yes
1222	1-RH-FCV-619	TRAIN B RHR FLOW CONTROL AOV	In Service	In Service	Provides RHR temperature control. Normally de-energized with AOV failed closed for full HX flow	RH-B20663		No
1223	1-RH-FY-619-1	TRAIN B RHR FLOW CONTROL AOV SOLENOID	In Service	In Service	Provides RHR temperature control. Normally de-energized with AOV failed closed for full HX flow	NHY-310887 sh. E88/2		No
1224	1-RH-HCV-607	TRAIN B RHR TEMP CONTROL AOV	In Service	In Service	Provides RHR temperature control. Normally de-energized with AOV failed open for full HX flow	RH-B20663		No
1225	1-RH-HY-607-1	TRAIN B RHR TEMP CONTROL AOV SOLENOID	In Service	In Service	Provides RHR temperature control. Normally de-energized with AOV failed open for full HX flow	NHY-310887 sh. E88/2		No
1226	1-RH-V-19	TRAIN B RHR LETDOWN SUPPLY ISOLATION	Closed	Closed	Manual Valve, screens out as ESEL equipment.	RH-B20663		No
1227	1-RH-V-36	TRAIN B RHR DISCHARGE TO SI/ CHARGING PUMPS MOV	Closed	Closed	Normally closed MOV. Screens out as ESEL equipment.	RH-B20663		No
1228	1-RH-V-45	TRAIN B RHR HX INLET ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	RH-B20663		No
1229	1-RH-V-21	TRAIN B RHR DISCHARGE CROSSCONNECT MOV	Open	Open	Required to Close for RHR operation & lineup	RH-B20663	Train B RHR vault, -18' elev., one flight down	Yes
1230	1-RH-V-26	TRAIN B RHR DISCHARGE TO LOOP 3 & 4 MOV	Open	Open	Normally Open/ de-energized, screens out as ESEL equipment	RH-B20663		No
1231	1-RH-V-25	TRAIN B RHR DISCHARGE TO LOOPS RELIEF VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	RH-B20663		No
1232	1-RH-V-27	RHR B DISCHARGE TO SI TEST HEADER AOV	Closed	Closed	Normally closed AOV. Screens out as ESEL equipment.	RH-B20663		No
1233	1-RH-FY-2464	RHR B DISCHARGE TO SI TEST HEADER AOV SOLENOID	De-energized/ air vented	De-energized/ air vented	Normally closed AOV. Screens out as ESEL equipment.	NHY-310887 sh. E87/2		No
1234	1-RH-V-29	TRAIN B RHR DISCHARGE TO LOOP 3 CHECK VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	RH-B20663		No
1235	1-RH-V-63	TRAIN B RHR DISCHARGE TO LOOP 3 MANUAL ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	RH-B20663		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
1236	1-SI-V-126	SI DISCHARGE TO LOOP 3 COLD LEG CHECK VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	RC-B20843		No
1237	1-RH-V-30	TRAIN B RHR DISCHARGE TO LOOP 4 CHECK VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	RH-B20663		No
1238	1-RH-V-65	TRAIN B RHR DISCHARGE TO LOOP 4 MANUAL ISOLATION	Locked Open	Open	Manual Valve, screens out as ESEL equipment.	RH-B20663		No
1239	1-SI-V-130	SI DISCHARGE TO LOOP 4 COLD LEG CHECK VALVE	Closed	Closed	Manual Valve, screens out as ESEL equipment.	RC-B20844		No
FLEX ESEL - Residual Heat Removal (Electrical)								
1240	1-RH-P-8B-BKR	RH PUMP 8B BREAKER AT BUS 6 <A77>	Open	Closed	Evaluated as part of 1-EDE-SWG-6	NHY-310887 SH. A77		No
1241	1-RH-P-8B-BKR-86	RH-P-8B BREAKER AT BUS 6 <A77> 86 LOCKOUT RELAY	Reset	Reset	Evaluated as part of 1-EDE-SWG-6	NHY-310891 sh. A82		No
1242	1-RH-P-8B-BKR-CFU	RH-P-8B FEEDER BREAKER 125V DC CLOSING FUSES (2)	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-SWG-6	NHY-310887 SH. A77b		No
1243	1-RH-P-8B-BKR-TFU	RH-P-8B FEEDER BREAKER 125V DC TRIPPING FUSES (2)	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-SWG-6	NHY-310887 SH. A77b		No
1244	1-RH-P-8B-BKR-RMO	RH-P-8B BREAKER AUX RELAY RMO	De-energized	Energized	De-energizes when RMO reset after completion of EPS stepping. Eval'd as part of DG-CP-80.	NHY-310887 SH. A77		No
1245	1-CBS-V-5-BKR	RWST OUTLET MOV AT MCC-621 <B51>	On	On	Required to Close to protect flowpath for RHR from loops. Eval'd as part of 1-EDE-MCC-621	NHY-310900 SH. B51		No
1246	1-CBS-V-5-BKR-FU	CBS-V-5 BKR 2A CONTROL PWR FUSE AT MCC 621 <B51>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-621	NHY-310900 SH. B51		No
1247	1-CBS-V-5-BKR-XFMR	CBS-V-5 BKR 480-120V CONTROL TRANSFORMER AT MCC 621 <B51>	Energized	Energized	Evaluated as part of 1-EDE-MCC-621	NHY-310900 SH. B51		No
1248	1-CBS-V-5-BKR-42/O	CBS-V-5 DEV. 42/O MOTOR STARTER AT MCC 621 <B51>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310900 SH. B51		No
1249	1-CBS-V-5-BKR-42/C	CBS-V-5 DEV. 42/C MOTOR STARTER AT MCC 621 <B51>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310900 SH. B51		No
1250	1-RH-FCV-611-BKR	RH PUMP 8B MINIFLOW MOV AT MCC-621 <B63>	On	On	Required to Close to protect flowpath for RHR from loops. Eval'd as part of 1-EDE-MCC-621	NHY-310887 SH. B63		No
1251	1-RH-FCV-611-BKR-FU	RH-FCV-611 BKR 2A CONTROL PWR FUSE AT MCC 621 <B63>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B63		No
1252	1-RH-FCV-611-BKR-XFMR	RH-FCV-611 BKR 480-120V CONTROL TRANSFORMER AT MCC 621 <B63>	Energized	Energized	Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B63		No
1253	1-RH-FCV-611-BKR-42/O	RH-FCV-611 DEV. 42/O MOTOR STARTER AT MCC 621 <B63>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B63		No

FLEX Expedited Seismic Evaluation List (ESEL)								
ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
1254	1-RH-FCV-611-BKR-42/C	RH-FCV-611 DEV. 42/C MOTOR STARTER AT MCC 621 <B63>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B63		No
1255	1-RH-FIS-611-LOW-FLOW	RH-FCV-611 LOW FLOW CONTACTS AT FIS-611	Closed	Closed	Evaluated as part of 1-RH-FIS-611	NHY-310887 SH. B63		No
1256	1-RH-FIS-611-HIGH-FLOW	RH-FCV-611 HIGH FLOW CONTACTS AT FIS-611	Open	Open	Evaluated as part of 1-RH-FIS-611	NHY-310887 SH. B63		No
1257	1-RH-V-36-BKR	RH PUMP 8B TO SI/ CHG MOV AT MCC-621 <B66>	On	On	Required to remain Closed to protect flowpath for RHR. Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B66		No
1258	1-RH-V-36-BKR-FU	RH-V-36 BKR 2A CONTROL PWR FUSE AT MCC 621 <B66>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B66		No
1259	1-RH-V-36-BKR-XFMR	RH-V-36 BKR 480-120V CONTROL TRANSFORMER AT MCC 621 <B66>	Energized	Energized	Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B66		No
1260	1-RH-V-36-BKR-42/O	RH-V-36 DEV. 42/O MOTOR STARTER AT MCC 621 <B66>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B66		No
1261	1-RH-V-36-BKR-42/C	RH-V-36 DEV. 42/C MOTOR STARTER AT MCC 621 <B66>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B66		No
1262	1-RH-V-21-BKR	RH TRAIN B CROSSCONNECT MOV AT MCC-621 <B64>	On	On	Required to Close when placing RHR in service. Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B64		No
1263	1-RH-V-21-BKR-FU	RH-V-21 BKR 2A CONTROL PWR FUSE AT MCC 621 <B64>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B64		No
1264	1-RH-V-21-BKR-XFMR	RH-V-21 BKR 480-120V CONTROL TRANSFORMER AT MCC 621 <B64>	Energized	Energized	Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B64		No
1265	1-RH-V-21-BKR-42/O	RH-V-21 DEV. 42/O MOTOR STARTER AT MCC 621 <B64>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B64		No
1266	1-RH-V-21-BKR-42/C	RH-V-21 DEV. 42/C MOTOR STARTER AT MCC 621 <B64>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310887 SH. B64		No
1267	1-RH-V-26-BKR	RH TRAIN B DISCHARGE MOV AT MCC-622 <B65>	On	On	Normally de-energized. Open, screens out as ESEL equipment.	NHY-310887 SH. B65		No
1268	1-RC-V-87-BKR1	RC-V-87 MOV PRIMARY BREAKER AT MCC-621 <B61>	Locked Off	Off	Required to Open valve when placing RHR in service from Loops. Eval'd as part of 1-EDE-MCC-621	NHY-310882 SH. B61		No
1269	1-RC-V-87-BKR2	RC-V-87 MOV SECONDARY BREAKER AT MCC-621 <B61>	Locked Off	Off	Required to Open valve when placing RHR in service from Loops. Eval'd as part of 1-EDE-MCC-621	NHY-310882 SH. B61		No
1270	1-RC-V-87-BKR-FU	RC-V-87 BKR 3A CONTROL PWR FUSE AT MCC 621 <B61>	Installed/ connected	Installed/ connected	Evaluated as part of 1-EDE-MCC-621	NHY-310882 SH. B61		No
1271	1-RC-V-87-BKR-XFMR	RC-V-87 BKR 480-120V CONTROL TRANSFORMER AT MCC 621 <B61>	Energized	Energized	Evaluated as part of 1-EDE-MCC-621	NHY-310882 SH. B61		No

FLEX Expedited Seismic Evaluation List (ESEL)

ESEL Item #	Equip ID	Description	Equipment Normal State	Equipment Desired State	Notes	Reference	Plant Location	Include on ESEL?
1272	1-RC-V-87-BKR-42-1/O	RC-V-87 DEV. 42-1/O MOTOR STARTER AT MCC 621 <B61>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310882 SH. B61		No
1273	1-RC-V-87-BKR-42-1/C	RC-V-87 DEV. 42-1/C MOTOR STARTER AT MCC 621 <B61>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310882 SH. B61		No
1274	1-RC-V-87-BKR-42-2	RC-V-87 DEV. 42-2 MOTOR STARTER AT MCC 621 <B61>	De-energized	De-energized	Evaluated as part of 1-EDE-MCC-621	NHY-310882 SH. B61		No
1275	1-RH-ZS-2466B	RH-V-36 ROTOR CONTACT 13	Contact closed	Contact closed	Evaluated as part of 1-RH-V-36	NHY-310882 SH. B61		No
1276	1-RC-V-88-BKR1	RC-V-88 MOV PRIMARY BREAKER AT MCC-521 <B62>	Locked Off	Off	No power to Bus 5, not included.	NHY-310882 SH. B62		No
1277	1-RC-V-88-BKR2	RC-V-88 MOV SECONDARY BREAKER AT MCC-521 <B62>	Locked Off	Off	No power to Bus 5, not included.	NHY-310882 SH. B62		No
1278	1-RC-V-88-BKR-FU	RC-V-88 BKR 3A CONTROL PWR FUSE AT MCC 521 <B62>	Installed/ connected	Installed/ connected	No power to Bus 5, not included.	NHY-310882 SH. B62		No
1279	1-RC-V-88-BKR-XFMR	RC-V-88 BKR 480-120V CONTROL TRANSFORMER AT MCC 521 <B62>	Energized	Energized	No power to Bus 5, not included.	NHY-310882 SH. B62		No
1280	1-RC-V-88-BKR-42-1/O	RC-V-88 DEV. 42-1/O MOTOR STARTER AT MCC 521 <B62>	De-energized	De-energized	No power to Bus 5, not included.	NHY-310882 SH. B62		No
1281	1-RC-V-88-BKR-42-1/C	RC-V-88 DEV. 42-1/C MOTOR STARTER AT MCC 521 <B62>	De-energized	De-energized	No power to Bus 5, not included.	NHY-310882 SH. B62		No
1282	1-RC-V-88-BKR-42-2	RC-V-88 DEV. 42-2 MOTOR STARTER AT MCC 521 <B62>	De-energized	De-energized	No power to Bus 5, not included.	NHY-310882 SH. B62		No
1283	1-RH-ZS-2466A	RH-V-36 LIMIT SWITCH CONTACT C/D	Contact closed	Contact closed	No power to Bus 5, not included.	NHY-310882 SH. B62		No
1284	1-EDE-PP-112-B-CK2	TRAIN B TEMP/ FLOW AOV CONTROL POWER AT EDE-PP-112B <E88>, CIRCUIT #2	On	On	Evaluated as part of EDE-PP-112B.	NHY-310887 SH. E88/2		No
1285	1-EDE-MM-580-FU1 & 2	TRAIN B TEMP/ FLOW AOV CONTROL FUSE FU1 & FU2 AT EDE-MM-580 <E4C>	Installed/ connected	Installed/ connected	Evaluated as part of EDE-MM-580..	NHY-310887 SH. E88/2		No

PREPARED BY: Steve Howard — 10-28-14 Date

Karl Axelson — 10-28-14 Date

REVIEWED BY: Edward Antosz — 10-28-14 Date

Attachment 2

ESEP HCLPF Values and Failure Modes Tabulation

Attachment 2

ESEP HCLPF Values and Failure Modes Tabulation

Equip ID	HCLPF	Evaluation	Notes
1-DG-CP-80	> RLGM	Screened / Anchorage	
1-EDE-B-1-A	> RLGM	Screened / Anchorage	
1-EDE-B-1-B	> RLGM	Screened / Anchorage	
1-EDE-B-1-C	> RLGM	Screened / Anchorage	
1-EDE-B-1-D	> RLGM	Screened / Anchorage	
1-EDE-BC-1-B	> RLGM	Screened / Anchorage	
1-EDE-BC-1-D	> RLGM	Screened / Anchorage	
1-EDE-CP-1-E -E1Y	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-EDE-CP-1-F -E2B	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-EDE-CP-227	> RLGM	Screened / Anchorage	
1-EDE-CP-228	> RLGM	Screened / Anchorage	
1-EDE-CP-229	> RLGM	Screened / Anchorage	
1-EDE-CP-230	> RLGM	Screened / Anchorage	
1-EDE-CP-248	> RLGM	Screened / Anchorage	
1-EDE-CP-249	> RLGM	Screened / Anchorage	
1-EDE-I-1-A	> RLGM	Screened / Anchorage	
1-EDE-I-1-B	> RLGM	Screened / Anchorage	
1-EDE-I-1-C	> RLGM	Screened / Anchorage	
1-EDE-I-1-D	> RLGM	Screened / Anchorage	
1-EDE-I-1-E	> RLGM	Screened / Anchorage	
1-EDE-I-1-F	> RLGM	Screened / Anchorage	
1-EDE-MCC-612	> RLGM	Screened / Anchorage	
1-EDE-MCC-615	> RLGM	Screened / Anchorage	
1-EDE-MCC-621	> RLGM	Screened / Anchorage	
1-EDE-MCC-631	> RLGM	Screened / Anchorage	
1-EDE-MM-578	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-EDE-MM-580	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-EDE-MM-583	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005

Equip ID	HCLPF	Evaluation	Notes
1-EDE-PP-111-B	> RLGM	Screened / Anchorage	
1-EDE-PP-112-A	> RLGM	Screened / Anchorage	
1-EDE-PP-112-B	> RLGM	Screened / Anchorage	
1-EDE-PP-113-A	> RLGM	Screened / Anchorage	
1-EDE-PP-113-B	> RLGM	Screened / Anchorage	
1-ED-PP-122B	> RLGM	Screened / Anchorage	
1-EDE-PP-11-E	> RLGM	Screened / Anchorage	
1-EDE-PP-11-F	> RLGM	Screened / Anchorage	
1-EDE-PP-1-A	> RLGM	Screened / Anchorage	
1-EDE-PP-1-B	> RLGM	Screened / Anchorage	
1-EDE-PP-1-C	> RLGM	Screened / Anchorage	
1-EDE-PP-1-D	> RLGM	Screened / Anchorage	
1-EDE-PP-1-E	> RLGM	Screened / Anchorage	
1-EDE-PP-1-F	> RLGM	Screened / Anchorage	
1-EDE-SWG-11-A	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-EDE-SWG-11-B	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-EDE-SWG-11-C	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-EDE-SWG-11-D	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-EDE-SWG-5	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-EDE-SWG-6	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-CC-P-11B-BKR-86	> RLGM	Relay Function	Hosted in 1-EDE-SWG-6. Relay HCLPF evaluation performed in 14Q4251-CAL-004
1-CS-P-2B-BKR-86	> RLGM	Relay Function	Hosted in 1-EDE-SWG-6. Relay HCLPF evaluation performed in 14Q4251-CAL-004
1-EDE-SWG-6-A83-86	> RLGM	Relay Function	Hosted in 1-EDE-SWG-6. Relay HCLPF evaluation performed in 14Q4251-CAL-004
1-EDE-SWG-6-A90-86	> RLGM	Relay Function	Hosted in 1-EDE-SWG-6. Relay HCLPF evaluation performed in 14Q4251-CAL-004
1-EDE-SWG-6-AU7-86	> RLGM	Relay Function	Hosted in 1-EDE-SWG-6. Relay HCLPF evaluation performed in 14Q4251-CAL-004
1-RH-P-8B-BKR-86	> RLGM	Relay Function	Hosted in 1-EDE-SWG-6. Relay HCLPF evaluation performed in 14Q4251-CAL-004
1-SEPS-BUS-6-BKR-86	> RLGM	Relay Function	Hosted in 1-EDE-SWG-6. Relay HCLPF evaluation performed in 14Q4251-CAL-004
1-SW-P-110B-BKR-86	> RLGM	Relay Function	Hosted in 1-EDE-SWG-6. Relay HCLPF evaluation performed in 14Q4251-CAL-004
1-EDE-US-61	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005

Equip ID	HCLPF	Evaluation	Notes
1-EDE-US-62	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-EDE-US-63	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-ED-PP-12-E	> RLGM	Screened / Anchorage	
1-ED-PP-3-C	> RLGM	Screened / Anchorage	
1-MM-CP-915B	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-CBA-DP-21B	> RLGM	Screened	
1-MM-CP-914B	> RLGM	Screened / Anchorage	Bounding HCLPF evaluation performed in 14Q4251-CAL-005
1-CBA-CP-178	> RLGM	Screened / Anchorage / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-CBA-FY-26B	> RLGM	Screened / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-CBA-TCV-21200B	> RLGM	Screened / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-MCB	> RLGM	Screened / Anchorage / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-MM-CP-1	> RLGM	Screened / Anchorage / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-MM-CP-2	> RLGM	Screened / Anchorage / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-MM-CP-297A	> RLGM	Screened / Anchorage / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-MM-CP-297B	> RLGM	Screened / Anchorage / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-MM-CP-3	> RLGM	Screened / Anchorage / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-MM-CP-4	> RLGM	Screened / Anchorage / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-MM-CP-486-A	> RLGM	Screened / Anchorage / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-MM-CP-486-B	> RLGM	Screened / Anchorage / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-EDE-MCC-641	> RLGM	Screened / Anchorage	
1-EDE-US-64	> RLGM	Screened / Anchorage	
1-SW-P-110-B	> RLGM	Screened / Anchorage	Critical anchorage failure mode (concrete breakout) evaluated in 14Q4251-CAL-006
1-SW-V-140	> RLGM	Screened	
1-SW-V-25	> RLGM	Screened	
1-SW-V-27	> RLGM	Screened	
1-SW-FN-51B	> RLGM	Screened / Anchorage / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
2-SW-FN-51B	> RLGM	Screened / Anchorage / Component Evaluation	Component screened against RLGM ISRS due to elevation > ~40' above grade
1-EDE-MCC-511	> RLGM	Screened / Anchorage	

Equip ID	HCLPF	Evaluation	Notes
1-EDE-MCC-611	> RLGM	Screened / Anchorage	
1-CBA-E-230B	> RLGM	Screened / Anchorage	
1-FW-FV-4214B	> RLGM	Screened	
1-FW-FV-4224B	> RLGM	Screened	
1-FW-FV-4234B	> RLGM	Screened	
1-FW-FV-4244B	> RLGM	Component Evaluation	Component stresses due to guide support evaluated in 14Q4251-CAL-006
1-FW-LT-4252	> RLGM	Screened / Anchorage	
1-FW-LT-4257	> RLGM	Screened / Anchorage	
1-FW-P-37A-SKD-15	> RLGM	Screened / Anchorage	
1-FW-V-346	> RLGM	Screened	
1-MM-IR-49	> RLGM	Screened / Anchorage	
1-MM-IR-50	> RLGM	Screened / Anchorage	
1-MS-V-395	> RLGM	Screened	
1-MM-IR-51B	> RLGM	Screened / Anchorage	
1-FW-V-39	> RLGM	Screened	
1-FW-V-48	> RLGM	Screened	
1-MS-FY-394A	> RLGM	Screened / Anchorage	
1-MS-FY-394B	> RLGM	Screened / Anchorage	
1-MS-V-394	> RLGM	Screened	
1-MS-PCV-3002	> RLGM	Screened / Anchorage	
1-MS-PV-3002	> RLGM	Screened	
1-MS-PV-3002-N2	> RLGM	Screened / Anchorage	
1-MS-PV-3003	> RLGM	Screened	
1-MS-PV-3003-N2	> RLGM	Screened / Anchorage	
1-MS-PY-3002-1	> RLGM	Screened / Anchorage	
1-MS-PY-3002-2	> RLGM	Screened / Anchorage	
1-MS-PY-3002-3	> RLGM	Screened / Anchorage	
1-MS-PY-3002-4	> RLGM	Screened / Anchorage	
1-MS-PY-3002-5	> RLGM	Screened / Anchorage	
1-MS-PY-3002-6	> RLGM	Screened / Anchorage	
1-MS-PY-3003-1	> RLGM	Screened / Anchorage	

Equip ID	HCLPF	Evaluation	Notes
1-MS-PY-3003-2	> RLGM	Screened / Anchorage	
1-MS-PY-3003-3	> RLGM	Screened / Anchorage	
1-MS-PY-3003-4	> RLGM	Screened / Anchorage	
1-MS-PY-3003-5	> RLGM	Screened / Anchorage	
1-MS-PY-3003-6	> RLGM	Screened / Anchorage	
1-RC-LT-1311	> RLGM	Screened / Anchorage	
1-RC-LT-1321	> RLGM	Screened / Anchorage	
1-RC-PT-403	> RLGM	Screened / Anchorage	
1-RC-PT-405	> RLGM	Screened / Anchorage	
1-SI-PT-2576	> RLGM	Screened / Anchorage	
1-SI-PT-2577	> RLGM	Screened / Anchorage	
CO-TK-25	> RLGM	Component Evaluation / Anchorage	HCLPF for tank and anchorage evaluated in 14Q4251-CAL-003
1-CC-E-153B	> RLGM	Screened / Anchorage	
1-CC-P-322B	> RLGM	Screened / Anchorage	
1-CS-V-168	> RLGM	Screened	
1-FW-LT-501	> RLGM	Screened / Anchorage	
1-FW-LT-502	> RLGM	Screened / Anchorage	
1-FW-LT-503	> RLGM	Screened / Anchorage	
1-FW-LT-504	> RLGM	Screened / Anchorage	
1-CC-V-176	> RLGM	Screened	
1-FW-LT-519	> RLGM	Screened / Anchorage	
1-FW-LT-537	> RLGM	Screened / Anchorage	
1-MM-IR-6	> RLGM	Screened / Anchorage	
1-MM-IR-8	> RLGM	Screened / Anchorage	
1-RC-LT-459	> RLGM	Screened / Anchorage	
1-RC-LT-460	> RLGM	Screened / Anchorage	
1-FAH-FY-5443-2	> RLGM	Screened	
1-CC-V-445	> RLGM	Screened	
1-FAH-DP-12B	> RLGM	Screened	
1-MM-IR-52B	> RLGM	Screened / Anchorage	
1-FW-V-30	> RLGM	Screened	

Equip ID	HCLPF	Evaluation	Notes
1-FW-V-57	> RLGM	Screened	
1-MS-FY-393	> RLGM	Screened / Anchorage	
1-MS-V-393	> RLGM	Screened	
1-MS-PCV-3001	> RLGM	Screened / Anchorage	
1-MS-PCV-3004	> RLGM	Screened / Anchorage	
1-MS-PV-3001	0.25g	Not Screened	Component assigned design-basis SSE HCLPF based on plant procedures. Undesirable configuration requires modification for RLGM
1-MS-PV-3001-N2	> RLGM	Screened / Anchorage	
1-MS-PV-3004	> RLGM	Screened	
1-MS-PV-3004-N2	> RLGM	Screened / Anchorage	
1-MS-PY-3001-1	> RLGM	Screened / Anchorage	
1-MS-PY-3001-2	> RLGM	Screened / Anchorage	
1-MS-PY-3001-3	> RLGM	Screened / Anchorage	
1-MS-PY-3001-4	> RLGM	Screened / Anchorage	
1-MS-PY-3001-5	> RLGM	Screened / Anchorage	
1-MS-PY-3001-6	> RLGM	Screened / Anchorage	
1-MS-PY-3004-1	> RLGM	Screened / Anchorage	
1-MS-PY-3004-2	> RLGM	Screened / Anchorage	
1-MS-PY-3004-3	> RLGM	Screened / Anchorage	
1-MS-PY-3004-4	> RLGM	Screened / Anchorage	
1-MS-PY-3004-5	> RLGM	Screened / Anchorage	
1-MS-PY-3004-6	> RLGM	Screened / Anchorage	
1-CBS-TK-8	> RLGM	Component Evaluation / Anchorage	HCLPF for tank and anchorage evaluated in 14Q4251-CAL-003
1-CS-LCV-112-E	> RLGM	Screened	
1-SI-V-139	> RLGM	Screened	
1-CS-V-143	> RLGM	Screened	
1-CC-V-257	> RLGM	Screened	
1-CC-V-447	> RLGM	Screened	
1-CC-V-448	> RLGM	Screened	
1-CS-E-5B	> RLGM	Screened / Anchorage	Support structure and anchorage evaluated in 14Q4251-CAL-006
1-CS-F-3	> RLGM	Screened / Anchorage	

Equip ID	HCLPF	Evaluation	Notes
1-CS-F-4A	> RLGM	Screened / Anchorage	
1-CS-P-2B	> RLGM	Screened / Anchorage	
1-CC-E-17-B	> RLGM	Screened / Anchorage	
1-CC-P-11B	> RLGM	Screened / Anchorage	
1-CC-TV-2271-1	> RLGM	Screened	
1-CC-TV-2271-1/2-N2-1	> RLGM	Screened / Anchorage	
1-CC-TV-2271-1/2-N2-2	> RLGM	Screened / Anchorage	
1-CC-TV-2271-1/2-N2-3	> RLGM	Screened / Anchorage	
1-CC-TV-2271-1/2-N2-4	> RLGM	Screened / Anchorage	
1-CC-TV-2271-2	> RLGM	Screened	
1-CC-V-1301	> RLGM	Screened	
1-CC-V-986	> RLGM	Screened	
1-CS-P-3B	> RLGM	Screened / Anchorage	
1-SW-V-19	> RLGM	Screened	
1-SW-V-23	> RLGM	Screened	
1-CS-LCV-112-C	> RLGM	Screened	
1-SW-S-11	> RLGM	Screened / Anchorage	
1-CC-TK-19-B	> RLGM	Screened / Anchorage	
1-SW-V-5	> RLGM	Screened	
1-RH-FE-611	> RLGM	Screened	
1-RH-FIS-611	> RLGM	Screened / Anchorage	
1-RH-P-8B	> RLGM	Screened / Anchorage	
1-RH-E-9B	> RLGM	Screened / Anchorage	
1-RH-FCV-611	> RLGM	Screened	
1-CBS-V-5	> RLGM	Screened	
1-RH-V-21	> RLGM	Screened	
1-CC-V-272	> RLGM	Screened	