



ARKANSAS POWER & LIGHT COMPANY  
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May 20, 1983

ØCANØ58311

Director of Nuclear Reactor Regulation  
ATTN: Mr. J. F. Stolz, Chief  
Operating Reactors Branch #4  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555

Director of Nuclear Reactor Regulation  
ATTN: Mr. Robert A. Clark, Chief  
Operating Reactors Branch #3  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555

SUBJECT: Arkansas Nuclear One - Units 1 & 2  
Docket Nos. 50-313 and 50-368  
License Nos. DPR-51 and NPF-6  
Environmental Qualification -  
10CFR50.49 Submittal Requirements

Gentlemen:

The Environmental Qualification (EQ) rule, promulgated by 10CFR50.49 and issued on February 22, 1983, requires licensees to "...identify the electric equipment important to safety within the scope of this section already qualified and submit a schedule for either the qualification to the provisions of this section or for the replacement of the remaining electric equipment important to safety within the scope of this section." Attached is the list of electric equipment identified by AP&L in accordance with the 10CFR50.49 requirement. The list contains the specific equipment identification (tag number), whether or not the equipment is considered qualified by AP&L, and an expected qualification date for those components not yet fully qualified. The qualification status is based upon a review of AP&L EQ records against the Technical Evaluation Reports (TER) recently received from NRC by AP&L. Please note that many items are considered fully qualified but require maintenance/surveillance related efforts to address Aging. We are currently re-evaluating the latest NRC requirements and guidance regarding Aging, and plan to address the current Aging-related maintenance/surveillance requirements by the applicable EQ deadline for ANO-1 and 2.

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MEMBER MIDDLE SOUTH UTILITIES SYSTEM

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Please also note that the evaluation of the ANO-2 TER is reflected in this submittal to the extent possible; however, as we indicated in our April 22, 1983 letter (2CAN048309), the final results of the TER evaluation for ANO-2 are not expected to be completed until June 20, 1983, due to its late submittal to AP&L. The final qualification status determined by AP&L differs for many items from that noted in the TER. Most of these differences occurred because the TER evaluations were based on AP&L's response to the NRC SER submitted in September 1981 (2CAN098105), while the AP&L evaluations include significant additional qualification efforts made thereafter. Since NRC did not have access to this information, the differences are not unexpected. If the final evaluations determine that changes in the qualification status are appropriate, a supplemental response to this letter will be submitted expeditiously.

Although not required by the rule, recent NRC letters concerning the TER's requested that licensees supply additional information with their responses to 10CFR50.49.

Namely, the staff requested:

"The submittal required by the rule should specifically indicate whether your previous submittals comply with paragraphs (a) and (b) of 10CFR50.49. In addition, you are requested to describe in your submittal the methods used to identify the equipment covered by paragraph 10CFR50.49(b)(2) and to establish any qualification programs not previously described for such equipment."

AP&L's previous submittals were of course made prior to submittal of the rule. Previous NRC guidelines required that licensees establish a program to cover "safety-related" electrical equipment. In identifying the appropriate equipment, AP&L did not limit the review to only "Q-list" devices or "safety-grade" items, rather, both "safety grade" and "non-safety grade" equipment was considered. Specifically, the first step taken was to identify the systems necessary to accomplish the following:

- (a) Detect events such as LOCA and initiate protective actions.
- (b) Carry out safeguard systems actions to mitigate the consequences of the event.
- (c) Shut down the reactor, bring it to a safe, stable condition and dissipate decay heat.
- (d) Provide required services such as electric power and cooling water for the equipment directly performing the above.
- (e) Maintain suitable environmental conditions for equipment operations (such as cooling a pump room).

Following identification of the systems, all components within the system were evaluated for inclusion on the list and those devices necessary to meet the above criteria were placed on the list. This list could therefore include equipment not previously considered "safety-grade".

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Based on the original design practices, however, devices whose failure could prevent satisfactory accomplishment of safety function were typically considered as safety-related for that very reason. These type of devices were included on the AP&L EQ list; therefore, we can affirm that such devices have been considered in the previous submittals to the NRC. We are aware of no non-safety related equipment whose failure would prohibit accomplishment of safety function; however, if as a result of future activities (such as resolution of Unresolved Safety Issue A45 "Systems Interaction") it is determined that additional equipment should be included in this category, a supplemental response to this letter will be provided, and the equipment qualified.

In addition, the attached list does include existing plant instrumentation required for Post Accident Monitoring (10CFR50.49(b)(3)). If new instrumentation is determined to be necessary based on the outcome of other regulatory issues (e.g., Reg. Guide 1.97 submittals required by Generic Letter 82-33), future supplements to this response will be provided.

Paragraph (h) of 10CFR50.49 requires that licensees notify the Commission of any significant equipment qualification problems that may require extension of the qualification deadline within 60 days of its discovery. Based on the resolution of Franklin Research Center comments provided in the TER's, AP&L has determined that for certain equipment previously considered qualified by AP&L, qualification has, in fact, not been fully established. In many cases, AP&L has elected to replace the equipment with fully qualified replacements; however, due to the impending qualification deadlines and the lead times for procurement, we have identified several items for which we must request an extension to the deadline. Please note that for ANO-2, due to the 12-month refueling cycle, the second refueling outage after March 1982 (2R3), is scheduled to begin in January 1984, but could begin as early as October 1983, due to the present unit performance. For ANO-1, the corresponding deadline falls in September 1984 (1R6 refueling outage). Currently we are planning to replace over 100 separate components in ANO-1 and approximately 75 components in ANO-2. To date we have identified no equipment requiring an extension for Unit 1, barring unforeseen problems which may arise. For Unit 2 we request that the deadline for replacement of the following items be extended to the next outage of sufficient duration following delivery of the items or November 30, 1985, whichever occurs first. If circumstances force us to request an extension past November 30, 1985, we will make our request for extension directly to the Commission as directed by the rule. Please note that Unit 2 will begin an 18-month operating cycle after the upcoming outage.

1. 2C-143 Terry Steam Turbine Control Panel and 2SE-0336B-2 Terry Steam Turbine Speed Controller (Emergency Feedwater Pump Turbine)

Previous AP&L efforts to establish full qualification for these items have been unsuccessful. Terry Corp. is in the process of establishing qualification for possible replacement components. AP&L is now investigating relocation of the control panel to a mild environment. According to Terry Corp., the replacement components may not be available until the Summer of 1984, and they can not guarantee the results of the current qualification

program; therefore, firm delivery dates cannot be established at this time. It is possible that due to procurement schedules, complexity of installation, etc., this item may require additional extensions to the qualification deadline.

2. 2CV-4698-1 Limitorque Operator

This device is a Limitorque SMB-00 DC type operator. The device is qualified for general inside containment use, but was irradiated to only  $1 \times 10^7$  rads. Limitorque indicates they have no plans for further qualification of a DC type actuator. To date, AP&L has not located a suitable replacement; however, if we are successful in obtaining a materials breakdown of the component, the item may be qualified based on the test plus a materials analysis to address radiation. If this effort is unsuccessful, further options such as additional type testing or system redesign may be pursued, in which case an extension to the qualification deadline will be necessary.

3. 2P1S-0789-1 and 2P1S-0795-2, Barton Pressure Switches

Barton is currently attempting to qualify a suitable replacement for these switches. If the qualification is successful, AP&L will procure the devices and install them as soon as possible following delivery. If the qualification is unsuccessful or inconclusive, AP&L may elect to install Rosemount electronic switches. In either case, procurement lead times preclude installation by the upcoming refueling outage; therefore, installation may not be completed before late 1985.

4. 2TE-4610-1 thru 4, -4611-1 thru 4, -4710-1 thru 4, -4711-1 thru 4, Rosemount RTD's

AP&L is currently involved in an extensive evaluation of these RTD's. In the upcoming refueling outage, AP&L will be installing Weed RTD's as replacements for the channel 4 RTD's. Their performance will be carefully monitored over the next operating cycle; if performance of the RTD's is satisfactory, AP&L will replace the remaining three channels with the Weed RTD's which are qualified. Therefore, for three of four channels, an extension to the 2R4 refueling outage is requested to demonstrate full qualification. If problems are encountered, further exemption requests may become necessary. At the present time, the Weed RTD is the only qualified device suitable for use as a replacement at ANO-2.

5. 2ZS-1403-1 Microswitch Limit Switch, 2ZS-2061-2 and 2201-2 Namco Limit Switches, 2ZS-4847 Masonelian Limit Switch

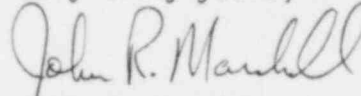
AP&L is in the process of obtaining qualified replacements for these devices; however, the most recent indications are that due to design and engineering complications, delivery of qualified replacements may not be received in time for

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the 2R3 outage. AP&L will make every effort to complete the changeout by 2R3; however, we must request the extension to 2R4 in case any delays are incurred.

Should the qualification status of any piece of equipment be changed for any reason from "Qualified" to "Not Qualified," we will inform you promptly and provide the schedule for qualification as on the attached.

Very truly yours,

A handwritten signature in cursive script that reads "John R. Marshall".

John R. Marshall  
Manager, Licensing

JRM:CT:s1

Attachments

ANO-1 ITEMS FOR 5/20/83 SUBMITTAL

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
1.	1	A048	CV1270	Limatorque	Qualified
2.	1	A049	CV1271	Limatorque	Qualified
3.	1	A050	CV1272	Limatorque	Qualified
4.	1	A051	CV1273	Limatorque	Qualified
5.	1	A056	CV2215	Limatorque	Qualified
6.	1	A057	CV2221	Limatorque	Qualified
7.	1	A044	CV1053	Limatorque	Qualified
8.	2	A012	CV6205	Limatorque	Qualified
9.	2	A097	CV7453	Limatorque	Qualified
10.	3	A010	CV4803	Limatorque	Qualified
11.	4	A047	CV1216	Limatorque	Qualified
12.	4	A046	CV1214	Limatorque	Qualified
13.	5	A045	CV1054	Limatorque	Qualified by 1R6
14.	6	B071	CV1221	Limatorque	Qualified
15.	7	B077	CV1274	Limatorque	Qualified
16.	8	B011	CV2667	Limatorque	Qualified by 1R6
17.	9	B001	CV2620	Limatorque	Qualified
18.	10	B093	CV1616	Limatorque	Qualified
19.	10	B094	CV1617	Limatorque	Qualified
20.	11	B012	CV2680	Limatorque	Qualified
21.	11	B010	CV2630	Limatorque	Qualified
22.	12	B006	CV2670	Limatorque	Qualified
23.	13	B009	CV2617	Limatorque	Qualified by 1R6
24.	14	A013	CV1000	Limatorque	Qualified

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
25.	15	B079	CV1301	Limitorque	Qualified
26.	15	B078	CV1300	Limitorque	Qualified
27.	16	B041	CV3821	Limitorque	Qualified
28.	17	B087	CV1405	Limitorque	Qualified
29.	18	B088	CV1406	Limitorque	Qualified
30.	19	B090	CV1407	Limitorque	Qualified
31.	19	B089	CV1408	Limitorque	Qualified
32.	20	B042	CV3822	Limitorque	Qualified
33.	21	B043	CV3823	Limitorque	Qualified
34.	22	B072	CV1227	Limitorque	Qualified
35.	22	B073	CV1228	Limitorque	Qualified
36.	22	B066	CV1206	Limitorque	Qualified
37.	23	B134	CV7443	Limitorque	Qualified
38.	23	B136	CV7447	Limitorque	Qualified
39.	23	B138	CV7451	Limitorque	Qualified
40.	23	B035	CV3812	Limitorque	Qualified
41.	24	B083	CV1401	Limitorque	Qualified
42.	24	B082	CV1400	Limitorque	Qualified by 1R6
43.	25	B140	CV7452	Limitorque	Qualified
44.	25	B135	CV7445	Limitorque	Qualified
45.	25	B137	CV7449	Limitorque	Qualified
46.	25	B113	CV2401	Limitorque	Qualified
47.	25	B111	CV2400	Limitorque	Qualified
48.	25	B069	CV1219	Limitorque	Qualified
49.	25	B070	CV1220	Limitorque	Qualified
50.	25	B036	CV3813	Limitorque	Qualified

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
51.	26	A096	CV7450	Limitorque	Qualified
52.	26	A095	CV7448	Limitorque	Qualified
53.	26	A094	CV7446	Limitorque	Qualified
54.	26	A093	CV7444	Limitorque	Qualified
55.	27	A065	CV1814	Limitorque	Qualified
56.	27	A066	CV1816	Limitorque	Qualified
57.	27	A067	CV1820	Limitorque	Qualified
58.	27	A068	CV1826	Limitorque	Qualified
59.	28	B005	CV2627	Rotork	Qualified by 1R6
60.	29	B004	CV2626	Rotork	Qualified by 1R6
61.	30	A009	CV4446	Rotork	Qualified
62.	31	A011	CV5612	Rotork	Qualified
63.	32	B101	CV2220	Rotork	Qualified by 1R6
64.	33	B106	CV2235	Rotork	Qualified by 1R6
65.	34	B033	CV3809	Rotork	Qualified by 1R6
66.	35	B027	CV3803	Rotork	Qualified by 1R6
67.	36	B034	CV3810	Rotork	Qualified by 1R6
68.	36	B032	CV3808	Rotork	Qualified by 1R6
69.	37	D001	CV1410	Rotork	Qualified
70.	38	A043	CV1050	Rotork	Qualified
71.	39	A054	CV1414	Rotork	Qualified
72.	39	A055	CV1415	Rotork	Qualified
73.	40	B024	CV3801	Rotork	Qualified by 1R6
74.	40	B025	CV3800	Rotork	Qualified by 1R6
75.	40	B026	CV3802	Rotork	Qualified by 1R6
76.	44	B030	SV3805	Asco	Qualified by 1R6

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
77.	45	B028	SV3804	Asco	Qualified by 1R6
78.	46	B046	SV3840	Asco	Qualified by 1R6
79.	46	B044	SV3841	Asco	Qualified by 1R6
80.	47	B037	SV3814	Asco	Qualified by 1R6
81.	48	B039	SV3815	Asco	Qualified by 1R6
82.	56	B015	SV2692	Peter Paul Elec.	Qualified by 1R6
83.	57	B013	SV2691	Norgren	Qualified by 1R6
84.	58	C014	LE5646	Gems	Qualified by 1R6
85.	58	C013	LE5645	Gems	Qualified by 1R6
86.	59	A052	LE1405B	Gems	Qualified by 1R6
87.	62	A042	TE1047	Rosemount	Qualified by 1R6
88.	62	A041	TE1045	Rosemount	Qualified by 1R6
89.	62	A021	TE1016	Rosemount	Qualified by 1R6
90.	63	A038	TE1040	Rosemount	Qualified by 1R6
91.	64	A040	TE1041	Rosemount	Qualified by 1R6
92.	64	A022	TE1017	Rosemount	Qualified by 1R6
93.	64	A020	TE1013	Rosemount	Qualified by 1R6
94.	64	A019	TE1012	Rosemount	Qualified by 1R6
95.	65	B016	ZS2692	Namco	Qualified by 1R6
96.	65	B014	ZS2691	Namco	Qualified by 1R6
97.	66	B038	ZS3814	Namco	Qualified by 1R6
98.	67	B178	ZS2136	Namco	Qualified by 1R6
99.	67	B176	ZS2133	Namco	Qualified by 1R6
100.	68	B170	ZS2123	Namco	Qualified by 1R6
101.	69	B172	ZS2126	Namco	Qualified by 1R6
102.	70	B040	ZS3815	Namco	Qualified by 1R6

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
103.	74	B047	ZS3841	Microswitch	Qualified by 1R6
104.	76	B045	ZS3840	Microswitch	Qualified by 1R6
105.	77	B029	ZS3804	Microswitch	Qualified by 1R6
106.	78	B031	ZS3805	Microswitch	Qualified by 1R6
107.	83	B149	PS7503	Barksdale	Qualified by 1R6
108.	83	B145	PS7501	Barksdale	Qualified by 1R6
109.	84	B147	PS7502	Barksdale	Qualified by 1R6
110.	84	B143	PS7500	Barksdale	Qualified by 1R6
111.	85	A061	PS2403	ITT Barton	Qualified by 1R6
112.	86	A059	PS2401	ITT Barton	Qualified by 1R6
113.	87	A058	PS2400	ITT Barton	Qualified by 1R6
114.	88	A060	PS2402	ITT Barton	Qualified by 1R6
115.	89	B133	TS7442B	Fenwal	Qualified by 1R6
116.	89	B132	TS7442A	Fenwal	Qualified by 1R6
117.	90	B129	TS7441B	Fenwal	Qualified by 1R6
118.	91	B128	TS7441A	Fenwal	Qualified by 1R6
119.	92	B008	PDT2670B	Rosemount	Qualified <sup>(3)</sup>
120.	92	B007	PDT2670A	Rosemount	Qualified <sup>(3)</sup>
121.	93	B003	PDT2620B	Rosemount	Qualified <sup>(3)</sup>
122.	93	B002	PDT2620A	Rosemount	Qualified <sup>(3)</sup>
123.	94	B127	PDT7441	Fisher & Porter	Qualified by 1R6
124.	94	B139	PDT7451	Fisher & Porter	Qualified by 1R6
125.	95	B130	PDT7442	Fisher & Porter	Qualified by 1R6
126.	95	B141	PDT7452	Fisher & Porter	Qualified by 1R6
127.	96	B167	PDT2120	Fisher & Porter	Qualified by 1R6
128.	97	B168	PDT2121	Fisher & Porter	Qualified by 1R6

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
129.	97	B174	PDT2131	Fisher & Porter	Qualified by 1R6
130.	97	B173	PDT2130	Fisher & Porter	Qualified by 1R6
131.	98	B112	PDT2400	Bailey	Qualified by 1R6
132.	99	A027	PDT1028	Bailey	Qualified by 1R6
133.	99	A028	PDT1029	Bailey	Qualified by 1R6
134.	99	A029	PDT1030	Bailey	Qualified by 1R6
135.	99	A030	PDT1031	Bailey	Qualified by 1R6
136.	99	A031	PDT1034	Bailey	Qualified by 1R6
137.	99	A032	PDT1035	Bailey	Qualified by 1R6
138.	99	A033	PDT1036	Bailey	Qualified by 1R6
139.	99	A034	PDT1037	Bailey	Qualified by 1R6
140.	100	B084	PDT1401	Bailey	Qualified by 1R6
141.	101	B085	PDT1402	Bailey	Qualified by 1R6
142.	101	B074	PDT1228	Bailey	Qualified by 1R6
143.	101	B075	PDT1230	Bailey	Qualified by 1R6
144.	101	B067	PDT1209	Bailey	Qualified by 1R6
145.	101	B068	PDT1210	Bailey	Qualified by 1R6
146.	102	A016	LT1001	Bailey	Qualified by 1R6
147.	103	A018	LT1002	Bailey	Qualified by 1R6
148.	104	A014	LT1000	Bailey	Qualified by 1R6
149.	105	A006	LT2664	Bailey	Qualified by 1R6
150.	105	A005	LT2659	Bailey	Qualified by 1R6
151.	106	A001	LT2609	Bailey	Qualified by 1R6
152.	106	A002	LT2614	Bailey	Qualified by 1R6
153.	108	A025	PT1022	Foxboro	Qualified by 1R6
154.	108	A037	PT1040	Foxboro	Qualified by 1R6

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
155.	109	A063	PT2406	Fisher & Porter	Qualified by 1R6
156.	110	A064	PT2407	Fisher & Porter	Qualified by 1R6
157.	110	A062	PT2405	Fisher & Porter	Qualified by 1R6
158.	111	A026	PT1023	Rosemount	Qualified by 1R6
159.	112	A023	PT1020	Foxboro	Qualified by 1R6
160.	113	A036	PT1039	Rosemount	Qualified by 1R6
161.	113	A035	PT1038	Rosemount	Qualified by 1R6
162.	113	A024	PT1021	Rosemount	Qualified by 1R6
163.	115	B018	VUCM1B	Allis Chalmers	Qualified
164.	115	B017	VUCM1A	Allis Chalmers	Qualified
165.	116	B020	VUCM1D	Allis Chalmers	Qualified
166.	116	B019	VUCM1C	Allis Chalmers	Qualified
167.	117	B022	VUCM7B	Louis Allis	Qualified
168.	118	B021	VUCM7A	Louis Allis	Qualified
169.	118	B023	VUCM7C	Louis Allis	Qualified
170.	119	B124	VEFM37B	G.E.	Qualified
171.	119	B122	VSFM30B	G.E.	Qualified
172.	120	B123	VEFM37A	G.E.	Qualified
173.	120	B121	VSFM30A	G.E.	Qualified
174.	121	B119	CM19A	Reliance	Qualified by 1R6
175.	122	B120	CM19B	Reliance	Qualified by 1R6
176.	123	A069	VSFM1A	Reliance	Qualified
177.	123	A070	VSFM1B	Reliance	Qualified
178.	123	A071	VSFM1C	Reliance	Qualified
179.	123	A072	VSFM1D	Reliance	Qualified
180.	124	B151	VEFM38A	Westinghouse	Qualified

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
181.	124	B152	VEFM38B	Westinghouse	Qualified
182.	125	B064	PM36B	Westinghouse	Qualified
183.	126	B109	PM35A	Westinghouse	Qualified
184.	127	B080	PM34A	Westinghouse	Qualified
185.	128	B065	PM36C	Westinghouse	Qualified
186.	128	B063	PM36A	Westinghouse	Qualified
187.	129	B081	PM34B	Westinghouse	Qualified
188.	129	B110	PM35B	Westinghouse	Qualified
189.	130	C001	VBE1000A	Endevco	Qualified by 1R6 <sup>(2)</sup>
190.	130	C002	VBE1000B	Endevco	Qualified by 1R6 <sup>(2)</sup>
191.	130	C005	VBE1001A	Endevco	Qualified by 1R6 <sup>(2)</sup>
192.	130	C006	VBE1001B	Endevco	Qualified by 1R6 <sup>(2)</sup>
193.	130	C009	VBE1002A	Endevco	Qualified by 1R6 <sup>(2)</sup>
194.	130	C010	VBE1002B	Endevco	Qualified by 1R6 <sup>(2)</sup>
195.	131	B117	VEH6A	Penwalt	Qualified
196.	132	B118	VEH6B	Penwalt	Qualified
197.	133	B125	C178	Comsip Delphi	Qualified by 1R6
198.	134	B126	C179	Comsip Delphi	Qualified by 1R6
199.	135	C003	VBV1000A	Unholtz Dickie	Qualified by 1R6 <sup>(2)</sup>
200.	135	C004	VBV1000B	Unholtz Dickie	Qualified by 1R6 <sup>(2)</sup>
201.	135	C007	VBV1001A	Unholtz Dickie	Qualified by 1R6 <sup>(2)</sup>
202.	135	C008	VBV1001B	Unholtz Dickie	Qualified by 1R6 <sup>(2)</sup>
203.	135	C011	VBV1002A	Unholtz Dickie	Qualified by 1R6 <sup>(2)</sup>
204.	135	C012	VBV1002B	Unholtz Dickie	Qualified by 1R6 <sup>(2)</sup>
205.	137	C017	RE8060	General Atomic	Qualified
206.	137	C018	RE8061	General Atomic	Qualified

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
207.	138	C016	GEN1008	Endevco	Qualified by 1R6 <sup>(2)</sup>
208.	140	A105	GEN1010	Okonite	Qualified
209.	142	A100	GEN1003	Conax	Qualified
210.	143	A101	GEN1004	Conax	Qualified
211.	144	A102	GEN1005	Conax	Qualified
212.	145	A103	GEN1006	Conax	Qualified
213.	146	A099	GEN1002	Boston Insul. Wire	Qualified
214.	147	A098	GEN1001	Boston Insul. Wire	Qualified
215.	148	C015	GEN1007	Endevco	Qualified by 1R6 <sup>(2)</sup>
216.	150	B114	SV1818	Target Rock	Qualified
217.	151	B150	SV7503	Target Rock	Qualified
218.	151	B148	SV7502	Target Rock	Qualified
219.	151	B146	SV7501	Target Rock	Qualified
220.	151	B144	SV7500	Target Rock	Qualified
221.	152	B091	E/H 1428	Bailey	Qualified by 1R6
222.	153	B092	E/H 1429	Bailey	Qualified by 1R6
223.	154	B175	CV2133	ITT General	Qualified
224.	154	B169	CV2123	ITT General	Qualified
225.	154	B177	CV2136	ITT General	Qualified
226.	154	B171	CV2126	ITT General	Qualified
227.	Not Stated	None	GENXXXX	G.E.	Qualified
			(Terminal Blks)		
228.	Not Stated	None	GENXXXX	Buchannon	Qualified
			(Terminal Blks)		

- (1) AP&L is requesting an extension to the qualification deadline for this item.
- (2) These devices are currently being tested. If the test fails, qualified replacements will be obtained by 1R6.
- (3) These items are considered qualified but may require additional efforts to address Aging. The necessary Aging requirements will be met by 1R6.

ANO-2 ITEMS FOR 5/20/83 SUBMITTAL

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
1.	127	B004	2C143	Terry	Qualified by 2R4 <sup>(1)</sup>
2.	12	B003	2CV0340-2	Limitorque	Qualified by 2R3
3.	6	B006	2CV0711-2	Limitorque	Qualified by 2R3
4.	5	B008	2CV0716-1	Limitorque	Qualified
5.	5	B012	2CV0789-1	Limitorque	Qualified
6.	6	B013	2CV0795-2	Limitorque	Qualified by 2R3
7.	11	B025	2CV1000-1	Limitorque	Qualified by 2R3
8.	8	B032	2CV1023-2	Limitorque	Qualified
9.	9	B033	2CV1024-1	Limitorque	Qualified
10.	68	B015	2CV1025-1	W. Hydraulic	Qualified by 2R3
11.	14	B016	2CV1026-2	Limitorque	Qualified
12.	69	B017	2CV1036-1	EBV	Qualified by 2R3 <sup>(4)</sup>
13.	70	B018	2CV1037-2	EBV	Qualified by 2R3 <sup>(4)</sup>
14.	70	B019	2CV1038-1	EBV	Qualified by 2R3 <sup>(4)</sup>
15.	70	B020	2CV1039-2	EBV	Qualified by 2R3 <sup>(4)</sup>
16.	10	B034	2CV1050-2	Limitorque	Qualified by 2R3 <sup>(4)</sup>
17.	8	B041	2CV1073-2	Limitorque	Qualified
18.	9	B042	2CV1074-1	Limitorque	Qualified
19.	67	B021	2CV1075-1	W. Hydraulic	Qualified by 2R3
20.	7	B022	2CV1076-2	Limitorque	Qualified
21.	35	B043	2CV1400-1	Electrodyne	Qualified <sup>(3)</sup>
22.	24	B044	2CV1401-2	Limitorque	Qualified
23.	24	B045	2CV1402-1	Limitorque	Qualified
24.	25	B046	2CV1403-1	Limitorque	Qualified

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
25.	24	B048	2CV1404-2	Limitorque	Qualified
26.	24	B049	2CV1405-2	Limitorque	Qualified
27.	37	B050	2CV1406-1	Electrodyne	Qualified <sup>(3)</sup>
28.	24	B051	2CV1407-1	Limitorque	Qualified
29.	24	B052	2CV1408-2	Limitorque	Qualified
30.	24	B053	2CV1409-2	Limitorque	Qualified
31.	25	B056	2CV1445-2	Limitorque	Qualified
32.	24	B057	2CV1446-1	Limitorque	Qualified
33.	25	B058	2CV1447-2	Limitorque	Qualified
34.	24	B059	2CV1448-1	Limitorque	Qualified
35.	25	B060	2CV1450-1	Limitorque	Qualified
36.	24	B061	2CV1451-5	Limitorque	Qualified
37.	24	B062	2CV1452-2	Limitorque	Qualified
38.	36	B063	2CV1453-1	Electrodyne	Qualified <sup>(3)</sup>
39.	36	B064	2CV1456-1	Electrodyne	Qualified <sup>(3)</sup>
40.	42	B065	2CV1480-2	Electrodyne	Qualified <sup>(3)</sup>
41.	42	B066	2CV1481-1	Electrodyne	Qualified <sup>(3)</sup>
42.	21	B071	2CV1500-1	Limitorque	Qualified
43.	21	B072	2CV1501-5	Limitorque	Qualified
44.	41	B074	2CV1503-1	Electrodyne	Qualified <sup>(3)</sup>
45.	40	B075	2CV1504-2	Electrodyne	Qualified <sup>(3)</sup>
46.	135	B076	2CV1506-2	ITT General	Qualified <sup>(3)</sup>
47.	135	B078	2CV1509-1	ITT General	Qualified <sup>(3)</sup>
48.	44	B080	2CV1510-2	Electrodyne	Qualified <sup>(3)</sup>
49.	39	B081	2CV1511-1	Electrodyne	Qualified <sup>(3)</sup>
50.	44	B082	2CV1513-2	Electrodyne	Qualified <sup>(3)</sup>

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
51.	39	B084	2CV1519-1	Electrodyne	Qualified <sup>(3)</sup>
52.	19	B086	2CV1529-2	Limitorque	Qualified
53.	38	B087	2CV1530-1	Electrodyne	Qualified <sup>(3)</sup>
54.	39	B088	2CV1531-2	Electrodyne	Qualified <sup>(3)</sup>
55.	19	B089	2CV1532-1	Limitorque	Qualified
56.	43	B090	2CV1541-1	Electrodyne	Qualified <sup>(3)</sup>
57.	43	B091	2CV1542-2	Electrodyne	Qualified <sup>(3)</sup>
58.	43	B092	2CV1543-1	Electrodyne	Qualified <sup>(3)</sup>
59.	43	B093	2CV1560-2	Electrodyne	Qualified <sup>(3)</sup>
60.	33	A017	2CV2060-1	Rotork	Qualified
61.	33	A018	2CV2202-1	Rotork	Qualified
62.	1	A019	2CV2401-1	Limitorque	Qualified
63.	1	A020	2CV3850-2	Limitorque	Qualified
64.	18	A039	2CV4698-1	Limitorque	Qualified by 2R4 <sup>(1)</sup>
65.	1	A049	2CV4820-2	Limitorque	Qualified
66.	1	A050	2CV4821-1	Limitorque	Qualified
67.	15	A051	2CV4824-2	Limitorque	Qualified
68.	15	A052	2CV4827-2	Limitorque	Qualified
69.	15	A053	2CV4831-2	Limitorque	Qualified
70.	1	A054	2CV4846-1	Limitorque	Qualified
71.	20	B126	2CV5015-1	Limitorque	Qualified
72.	20	B127	2CV5016-2	Limitorque	Qualified
73.	2	B128	2CV5017-1	Limitorque	Qualified
74.	20	B130	2CV5035-1	Limitorque	Qualified
75.	20	B131	2CV5036-2	Limitorque	Qualified
76.	2	B132	2CV5037-1	Limitorque	Qualified

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
77.	20	B135	2CV5055-1	Limitorque	Qualified
78.	20	B136	2CV5056-2	Limitorque	Qualified
79.	2	B137	2CV5057-2	Limitorque	Qualified
80.	20	B139	2CV5075-1	Limitorque	Qualified
81.	20	B140	2CV5076-2	Limitorque	Qualified
82.	2	B141	2CV5077-2	Limitorque	Qualified
83.	22	B144	2CV5103-1	Limitorque	Qualified
84.	22	B145	2CV5104-2	Limitorque	Qualified
85.	4	B146	2CV5123-1	Limitorque	Qualified
86.	3	B147	2CV5124-1	Limitorque	Qualified
87.	25	B148	2CV5126-1	Limitorque	Qualified
88.	24	B149	2CV5127-1	Limitorque	Qualified
89.	24	B150	2CV5128-1	Limitorque	Qualified
90.	44	B156	2CV5236-1	Electrodyne	Qualified <sup>(3)</sup>
91.	4	A073	2CV5254-2	Limitorque	Qualified
92.	Not Stated	B157	2CV5255-1	Electrodyne	Qualified <sup>(3)</sup>
93.	20	B162	2CV5612-1	Limitorque	Qualified
94.	20	B163	2CV5613-2	Limitorque	Qualified
95.	23	B164	2CV5628-2	Limitorque	Qualified
96.	34	A081	2CV5647-2	Rotork	Qualified
97.	34	A082	2CV5648-2	Rotork	Qualified
98.	32	B167	2CV5649-1	Rotork	Qualified
99.	32	B168	2CV5650-2	Rotork	Qualified
100.	24	B171	2CV5672-1	Limitorque	Qualified
101.	25	B172	2CV5673-1	Limitorque	Qualified
102.	20	B174	2CV5856-2	Limitorque	Qualified

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
103.	20	B175	2CV5859-2	Limitorque	Qualified
104.	17	A048	2CV4740-2	Limitorque	Qualified
105.	136	B188	2E/H 8829-1	ITT General	Qualified <sup>(3)</sup>
106.	136	B189	2E/H 8830-2	ITT General	Qualified <sup>(3)</sup>
107.	136	B190	2E/H 8831-1	ITT General	Qualified <sup>(3)</sup>
108.	136	B191	2E/H 8832-2	ITT General	Qualified <sup>(3)</sup>
109.	92	B005	2FT0710-1	Foxboro	Qualified <sup>(3)</sup>
110.	91	B007	2FT0713-2	Foxboro	Qualified <sup>(3)</sup>
111.	91	B009	2FT0717-1	Foxboro	Qualified <sup>(3)</sup>
112.	92	B010	2FT0718-2	Foxboro	Qualified <sup>(3)</sup>
113.	100	B054	2PT1417-1	Foxboro	Qualified <sup>(3)</sup>
114.	94	B125	2FT5014-1	Fisher & Porter	Qualified by 2R3
115.	94	B129	2FT5034-1	Fisher & Porter	Qualified by 2R3
116.	94	B134	2FT5054-2	Fisher & Porter	Qualified by 2R3
117.	94	B138	2FT5074-2	Fisher & Porter	Qualified by 2R3
118.	96	B142	2FT5101-1	Foxboro	Qualified <sup>(3)</sup>
119.	96	B143	2FT5102-2	Foxboro	Qualified <sup>(3)</sup>
120.	96	B186	2FT8827-1	Foxboro	Qualified <sup>(3)</sup>
121.	95	B187	2FT8828-2	Foxboro	Qualified <sup>(3)</sup>
122.	93	B192	2FT8833-1	Foxboro	Qualified <sup>(3)</sup>
123.	93	B193	2FT8834-2	Foxboro	Qualified <sup>(3)</sup>
124.	131	A109	2GEN1001A	Amph. Sams	Qualified
125.	132	A110	2GEN1001B	Amph. Sams	Qualified
126.	133	A111	2GEN1001C	Amph. Sams	Qualified
127.	134	A112	2GEN1001D	Amph. Sams	Qualified
128.	124	A113	2GEN1002	Anaconda	Qualified

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
129.	129	A114	2GEN1003	Conax	Qualified
130.	Not Stated	C001	2GEN1004	Endevco	Qualified by 2R3 <sup>(2)</sup>
131.	Not Stated	C002	2GEN1005	Endevco	Qualified by 2R3 <sup>(2)</sup>
132.	125	A115	2GEN1006	Raychem	Qualified
133.	126	A116	2GEN1007	Raychem	Qualified
134.	122	A080	2LE5641-2	Gems	Qualified
135.	139	C011	2LE5645-1	Gems	Qualified
136.	139	C012	2LE5646-2	Gems	Qualified
137.	97	A001	2LT1031-1	Rosemount	Qualified <sup>(3)</sup>
138.	97	A002	2LT1031-2	Rosemount	Qualified <sup>(3)</sup>
139.	97	A003	2LT1031-3	Rosemount	Qualified <sup>(3)</sup>
140.	97	A004	2LT1031-4	Rosemount	Qualified <sup>(3)</sup>
141.	97	A009	2LT1131-1	Rosemount	Qualified <sup>(3)</sup>
142.	97	A010	2LT1131-2	Rosemount	Qualified <sup>(3)</sup>
143.	97	A011	2LT1131-3	Rosemount	Qualified <sup>(3)</sup>
144.	97	A012	2LT1131-4	Rosemount	Qualified <sup>(3)</sup>
145.	98	A037	2LT4627-1	Rosemount	Qualified <sup>(3)</sup>
146.	98	A038	2LT4527-2	Rosemount	Qualified <sup>(3)</sup>
147.	130	A107	2M55A	Westinghouse	Qualified
148.	130	A108	2M55B	Westinghouse	Qualified
149.	121	B010	2PIS0789-1	ITT Barton	Qualified by 2R4 <sup>(1)</sup>
150.	121	B014	2PIS0795-2	ITT Barton	Qualified by 2R4 <sup>(1)</sup>
151.	75	B160	2PM136A	Westinghouse	Qualified
152.	75	B161	2PM136B	Westinghouse	Qualified
153.	87	B158	2PM35A	Allis Chalmers	Qualified
154.	89	B159	2PM35B	Allis Chalmers	Qualified

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
155.	74	B024	2PM7B	Allis Chalmers	Qualified
156.	88	B153	2PM89A	Allis Chalmers	Qualified
157.	90	B154	2PM89B	Allis Chalmers	Qualified
158.	90	B155	2PM89C	Allis Chalmers	Qualified
159.	101	A005	2PT1041-1	Rosemount	Qualified <sup>(3)</sup>
160.	101	A006	2PT1041-2	Rosemount	Qualified <sup>(3)</sup>
161.	101	A007	2PT1041-3	Rosemount	Qualified <sup>(3)</sup>
162.	101	A008	2PT1041-4	Rosemount	Qualified <sup>(3)</sup>
163.	101	A013	2PT1141-1	Rosemount	Qualified <sup>(3)</sup>
164.	101	A014	2PT1141-2	Rosemount	Qualified <sup>(3)</sup>
165.	101	A015	2PT1141-3	Rosemount	Qualified <sup>(3)</sup>
166.	101	A016	2PT1141-4	Rosemount	Qualified <sup>(3)</sup>
167.	100	B055	2PT1423-2	Foxboro	Qualified <sup>(3)</sup>
168.	103	B077	2PT1506-2	Rosemount	Qualified <sup>(3)</sup>
169.	103	B079	2PT1509-1	Rosemount	Qualified <sup>(3)</sup>
170.	99	A021	2PT4601-1	Foxboro	Qualified <sup>(3)</sup>
171.	99	A022	2PT4601-2	Foxboro	Qualified <sup>(3)</sup>
172.	99	A023	2PT4601-3	Foxboro	Qualified <sup>(3)</sup>
173.	99	A024	2PT4601-4	Foxboro	Qualified <sup>(3)</sup>
174.	102	A033	2PT4624-1	Rosemount	Qualified <sup>(3)</sup>
175.	102	A034	2PT4624-2	Rosemount	Qualified <sup>(3)</sup>
176.	102	A035	2PT4624-3	Rosemount	Qualified <sup>(3)</sup>
177.	102	A036	2PT4624-4	Rosemount	Qualified <sup>(3)</sup>
178.	104	A074	2PT5601-1	Rosemount	Qualified <sup>(3)</sup>
179.	104	A075	2PT5602-2	Rosemount	Qualified <sup>(3)</sup>
180.	104	A076	2PT5603-2	Rosemount	Qualified <sup>(3)</sup>

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
181.	104	A077	2PT5604-4	Rosemount	Qualified <sup>(3)</sup>
182.	105	A078	2PT5605-1	Rosemount	Qualified <sup>(3)</sup>
183.	105	A079	2PT5606-2	Rosemount	Qualified <sup>(3)</sup>
184.	123	B083	2RE1513-2	Westinghouse	Qualified
185.	123	B085	2RE1519-1	Westinghouse	Qualified
186.	141	C013	2RE8925-1	General Atomic	Qualified
187.	142	C014	2RE8925-2	General Atomic	Qualified
188.	128	B002	2SE0336B-2	Terry	Qualified by 2R4 <sup>(1)</sup>
189.	56	B001	2SV0317-2	Target Rock	Qualified
190.	Not Stated	D001	2SV1001C-2	Target Rock	Qualified
191.	Not Stated	D002	2SV100D-2	Target Rock	Qualified
192.	49	B027	2SV1010-1A	Asco	Qualified by 2R3
193.	49	B028	2SV1010-2A	Asco	Qualified
194.	Not Stated	D003	2SV1051C-2	Target Rock	Qualified
195.	Not Stated	D004	2SV1051D-1	Target Rock	Qualified
196.	50	B036	2SV1060-1A	Asco	Qualified by 2R3
197.	50	B037	2SV1060-2A	Asco	Qualified by 2R3
198.	45	B111	2SV2061-2	Asco	Qualified by 2R3
199.	Not Stated	B124A	2SV4847-2	Asco	Qualified by 2R3
200.	55	A055	2SV5001-1	Target Rock	Qualified
201.	55	A059	2SV5021-1	Target Rock	Qualified
202.	55	A063	2SV5041-2	Target Rock	Qualified
203.	55	A067	2SV5061-2	Target Rock	Qualified
204.	63	A083	2SV5833-1	Target Rock	Qualified
205.	60	B173	2SV5843-2	Target Rock	Qualified
206.	59	B177	2SV5871-2	Target Rock	Qualified

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
207.	59	B178	2SV5876-2	Target Rock	Qualified
208.	64	A084	2SV5878-1	Target Rock	Qualified
209.	64	B179	2SV8231-2	Target Rock	Qualified
210.	57	B180	2SV8261-2	Target Rock	Qualified
211.	58	B181	2SV8263-2	Target Rock	Qualified
212.	65	A097	2SV8265-1	Target Rock	Qualified
213.	62	B182	2SV8271-2	Target Rock	Qualified
214.	66	A106	2SV8273-1	Target Rock	Qualified
215.	54	B194	2SV8863-1	Asco	Qualified <sup>(3)</sup>
216.	54	B196	2SV8866-2	Asco	Qualified <sup>(3)</sup>
217.	106	A025	2TE4610-1	Rosemount	Qualified by 2R4 <sup>(1)</sup>
218.	106	A026	2TE4610-2	Rosemount	Qualified by 2R4 <sup>(1)</sup>
219.	106	A027	2TE4610-3	Rosemount	Qualified by 2R4 <sup>(1)</sup>
220.	106	A028	2TE4610-4	Rosemount	Qualified by 2R4 <sup>(1)</sup>
221.	106	A029	2TE4611-1	Rosemount	Qualified by 2R4 <sup>(1)</sup>
222.	106	A030	2TE4611-2	Rosemount	Qualified by 2R4 <sup>(1)</sup>
223.	106	A031	2TE4611-3	Rosemount	Qualified by 2R4 <sup>(1)</sup>
224.	106	A032	2TE4611-4	Rosemount	Qualified by 2R4 <sup>(1)</sup>
225.	106	A040	2TE4710-1	Rosemount	Qualified by 2R4 <sup>(1)</sup>
226.	106	A041	2TE4710-2	Rosemount	Qualified by 2R4 <sup>(1)</sup>
227.	106	A042	2TE4710-3	Rosemount	Qualified by 2R4 <sup>(1)</sup>
228.	106	A043	2TE4710-4	Rosemount	Qualified by 2R4 <sup>(1)</sup>
229.	106	A044	2TE4711-1	Rosemount	Qualified by 2R4 <sup>(1)</sup>
230.	106	A045	2TE4711-2	Rosemount	Qualified by 2R4 <sup>(1)</sup>
231.	106	A046	2TE4711-3	Rosemount	Qualified by 2R4 <sup>(1)</sup>
232.	106	A047	2TE4711-4	Rosemount	Qualified by 2R4 <sup>(1)</sup>

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
233.	71	A093	2UCD8203-1	Baldor	Qualified by 2R3
234.	71	A094	2UCD8209-1	Baldor	Qualified by 2R3
235.	71	A095	2UCD8216-2	Baldor	Qualified by 2R3
236.	71	A096	2UCD8222-2	Baldor	Qualified by 2R3
237.	Not Stated	C003	2VBE4633-1	Endevco	Qualified by 2R3 <sup>(2)</sup>
238.	138	C004	2VBE4633-2	Endevco	Qualified by 2R3 <sup>(2)</sup>
239.	138	C005	2VBE4634-1	Endevco	Qualified by 2R3 <sup>(2)</sup>
240.	138	C006	2VBE4634-2	Endevco	Qualified by 2R3 <sup>(2)</sup>
241.	140	C007	2VBY4633-1	Unholtz Dickie	Qualified by 2R3 <sup>(2)</sup>
242.	140	C008	2VBY4633-2	Unholtz Dickie	Qualified by 2R3 <sup>(2)</sup>
243.	140	C009	2VBY4634-1	Unholtz Dickie	Qualified by 2R3 <sup>(2)</sup>
244.	140	C010	2VBY4634-2	Unholtz Dickie	Qualified by 2R3 <sup>(2)</sup>
245.	76	A085	2VSFM1A	Reliance	Qualified
246.	76	A086	2VSFM1B	Reliance	Qualified
247.	76	A087	2VSFM1C	Reliance	Qualified
248.	76	A088	2VSFM1D	Reliance	Qualified
249.	76	A089	2VSFM31A	Reliance	Qualified
250.	76	A090	2VSFM31B	Reliance	Qualified
251.	76	A091	2VSFM31C	Reliance	Qualified
252.	76	A092	2VSFM31D	Reliance	Qualified
253.	83	B105	2VUCM11A	Reliance	Qualified
254.	83	B106	2VUCM11B	Reliance	Qualified
255.	78	B094	2VUCM1A	Reliance	Qualified
256.	78	B095	2VUCM1B	Reliance	Qualified
257.	77	B096	2VUCM1C	Reliance	Qualified
258.	77	B097	2VUCM1D	Reliance	Qualified

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
259.	77	B098	2VUCM1E	Reliance	Qualified
260.	77	B099	2VUCM1F	Reliance	Qualified
261.	79	B100	2VUCM6A	Reliance	Qualified
262.	79	B101	2VUCM6B	Reliance	Qualified
263.	80	B102	2VUCM7A	Reliance	Qualified
264.	81	B103	2VUCM7B	Reliance	Qualified
265.	82	B104	2VUCM7C	Reliance	Qualified
266.	113	B026	2ZS1010-1	Namco	Qualified <sup>(3)</sup>
267.	113	B035	2ZS1060-2	Namco	Qualified <sup>(3)</sup>
268.	118	B047	2ZS1403-1	Microswitch	Qualified by 2R4 <sup>(1)</sup>
269.	109	B112	2ZS2061-2	Namco	Qualified by 2R4 <sup>(1)</sup>
270.	Not Stated	B114	2ZS2201-2	Namco	Qualified by 2R4 <sup>(1)</sup>
271.	Not Stated	B124B	2ZS4847	Masonelian	Qualified by 2R4 <sup>(1)</sup>
272.	107	A098	2ZS8203-1	Allen Bradley	Qualified by 2R3
273.	107	A099	2ZS8204-1	Allen Bradley	Qualified by 2R3
274.	107	A100	2ZS8209-1	Allen Bradley	Qualified by 2R3
275.	107	A101	2ZS8210-1	Allen Bradley	Qualified by 2R3
276.	107	A102	2ZS8216-2	Allen Bradley	Qualified by 2R3
277.	107	A103	2ZS8217-2	Allen Bradley	Qualified by 2R3
278.	107	A104	2ZS8222-2	Allen Bradley	Qualified by 2R3
279.	107	A105	2ZS8223-2	Allen Bradley	Qualified by 2R3
280.	116	B195	2ZS8863-1	Namco	Qualified
281.	116	B197	2ZS8866-2	Namco	Qualified
282.	Not Stated	None	2B52 (MCC)	ITE	Qualified
283.	Not Stated	None	2B62 (MCC)	ITE	Qualified

<u>No.</u>	<u>FRC Item</u>	<u>Scew</u>	<u>Tag No.</u>	<u>Manufacturer</u>	<u>Remarks</u>
284.	Not Stated	None	GENXXXX	G.E.	Qualified
			(Terminal Blks)		
285.	Not Stated	None	GENXXXX	Buchannon	Qualified
			(Terminal Blks)		

- (1) AP&L is requesting an extension to the qualification deadline for this item.
- (2) This item is currently being tested. If the test fails, qualified replacements will be obtained; however, an extension to the qualification deadline to 2R4 would be necessary.
- (3) These items are considered qualified but may require additional efforts to address Aging. The necessary Aging requirements will be met by 2R3.
- (4) An extension to the qualification deadline is not needed for this item based on current delivery schedules; however, any delays which may occur could preclude their installation during the 2R3 outage in which case, an extension to 2R4 will be requested.