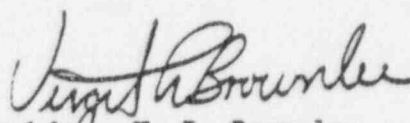


ENVIRONMENTAL QUALIFICATION OF SAFETY-RELATED  
ELECTRICAL EQUIPMENT  
IEB 79-01B

TECHNICAL EVALUATION REPORT  
DOCKET NO. 50-338  
PLANT: North Anna 1  
DATED: December 5, 1980

Licensee: Virginia Electric and Power Company

Type Reactor: Westinghouse PWR

  
Prepared by V. L. Brownlee  
12/8/80

Engineering Support Section  
Reactor Construction and Engineering  
Support Branch, RII

8105220338

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## 1. INTRODUCTION

### 1.1 General

The NRC Office of Inspection and Enforcement (I/E) issued Bulletin 79-01B, "Environmental Qualification of Class 1E Equipment" in January 1980. This bulletin required the licensee to perform a detailed evaluation of the environmental qualification on Class 1E electrical equipment required to function under postulated accident conditions and to submit a report on this action.

This document is a report on the evaluation of the licensee's response to this bulletin.

## 2. BACKGROUND AND DISCUSSION

### 2.1 General

The evaluation of the licensee's response was accomplished by performing an on-site inspection of selected class 1E equipment and by examining the licensee's reports for completeness and technical accuracy. The licensee's reports used in this evaluation are dated November 1 and December 1, 1980. The November 1 and December 1, 1980 reports include the responses to the bulletin supplements with the exception of IE Supplement 3 issued on October 24, 1980.

## 2.2 On-Site Inspections

The on-site inspection, made on selected LE equipment, verified proper installation of equipment, overall interface integrity, location with respect to flood level for equipment inside the containment, and manufacturers nameplate data. The manufacturer and model number from the nameplate data was compared to information given in the Component Evaluation Work Sheets (CES) of the licensee's report.

Components that were examined during the field inspection are identified by an asterisk (\*) in Attachment 1. If any discrepancies were noted between the installed equipment and the correspondent equipment addressed in the licensee's report, they are discussed in Section 4 of this report. The site inspection is documented by report number 50-338/80-36. The inspection was performed during the week of October 20, 1980.

## 2.3 Evaluation of Licensee's Report

Each component as addressed on the Component Evaluation Work Sheets (CES) of the licensee's reports was examined for completeness and accuracy to the criteria given in the bulletin. This examination assumed qualification documents (analysis, test reports, etc.) referenced by the licensee in their submittal are acceptable.

The results of this examination are documented in Attachment 1. The CES page numbers in column 1 of Attachment 1 is the same CES page found in the licensee's report.



### 3. GENERAL INFORMATION

#### 3.1 Identification Of Class 1E Electrical Equipment

The licensee's list of systems was compared to the systems listed on Attachment 2. This list is considered to be a standard list for Westinghouse, NSSS, PWR reactors.

It is recognized that there are differences in nomenclature of systems because of plant vintage and engineering design, therefore, many of these systems may not exist for North Anna 1 plant or the function of these systems for the North Anna 1 plant may be performed by comparable systems with different names. In any case, all the systems of Attachment 2 were not addressed or listed in the licensee's report. The systems described in the licensee's report are denoted by a check(✓) next to the systems listed on Attachment 2. The systems that were not addressed in the licensee's report are denoted by an asterisk (\*). The licensee's representative informs IE:II that the asterisked (\*) systems on Attachment 2 will be addressed in the VEPCO response due February 1, 1981.

#### 3.2 Service Conditions

The service condition accident environment, HELB/LOCA inside containment and HELB outside containment are indicated or discussed in the licensee's report and are based on the FSAR accident analysis.

### 3.3 Qualification Documentation

Attachment 3 is list of documents (test reports, analysis, letters, etc.) used by the licensee in determining the environmental qualification of plant equipment for North Anna 1. These references have been tabulated and are indicated on the applicable CES of their report.

## 4. EQUIPMENT DATA REVIEW

4.1 Equipment that is considered to meet IEB 79-01B requirements are categorized as 1 in the last column of Attachment 1.

4.2 Equipment whose qualified life (Aging) is less than the life of the plant is categorized as 2 in the last column of Attachment 1.

4.3 The licensee has identified specific equipment which has been or is being replaced, modified or relocated as a result of their IEB 79-01B efforts. This equipment is categorized as 3 in the last column of Attachment 1.

4.4. Equipment whose qualification is unresolved (such as, a qualification record search is still in process, tests are scheduled to determine qualification, additional information is needed by the NRC reviewer to satisfy him that equipment is qualified, etc.) is categorized as 4 or 6 in the last column of Attachment 1.

- 4.5 Equipment that the licensee has identified as not being qualified required an LER with justification for continued plant operation.

The following LER was received in Region II:

Subject: Gem Sensor Division -

Containment Level Signal Processes

- 4.6 Equipment whose qualification (Aging exempted to a certain degree - see DOR guideline Section 4) is unresolved, as identified by the licensee is listed in Attachment 4 as Outstanding Items.

The licensee has provided justification for continued plant operation for many, if not all, of these outstanding items in their report. In many cases, this is provided on their CES or in a special section of the report. In some cases the licensee states that this justification is by Engineering Analysis that are available at their office.

- 4.7 There were no major differences between the data obtained during the on-site inspection and the data tested on the CES of the licensee's reports. Asterisked (\*) items in Attachment 1 are components examined during the on-site inspections.

## 5. CONCLUSIONS

Due to the time constraints imposed by the Commission Memo and Order of 5/28/80 this evaluation is based on the licensee submittal dated November 1

and December 1, 1980. This licensee's report does not address all items that may be pertinent to North Anna 1 plant as a result of a bulletin supplement issued on 9/30/80 and 10/24/80 respectively. Specifically, information on cold shutdown and TMI Lessons Learned related equipment which is received subsequent to 11/1/80 will be evaluated by the EQB of NRR.

The licensee's actions meet the requirements of the Commission Memo and Order of 5/23/80 and justification for continued plant operation with many of the components that have unresolved qualification items is indicated in Section 4.6. Based on the information available, the Region II reviewer considers that the justification is commensurate for the areas identified, that the proposed corrective action meets requirements of the Commission Memo and Order of 5/23/80 and, therefore, plant operation can continue until these items are resolved as committed to by the licensee.

This evaluation is based on the on-site inspections, the information supplied by the licensee in their submittals, telephone conversations with the licensee's representatives, their FSAR, and the assumption that the Qualification Documents (Test Reports, Analysis, Letter, etc.) are acceptable.

The results of this evaluation does not necessarily imply that the equipment is unreliable, unsafe or represents a significant safety issue; it does imply that additional information is required. This is indicated by the applicable categorization indicated in the last column of Attachment 1.

FACILITY

FOR IEH 79-018

PAGE

Code:

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQA for resolution

REVIEWER



CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
3	AM 115	TE	—	—	—	—	Deleted	—	—	—	—	—	—	—
4	AM 116	TE	—	—	—	—	deleted	—	—	—	—	—	—	—
5	AM 117A	TE	—	—	—	—	deleted	—	—	—	—	—	—	—
6	AM 117B	TE	—	—	—	—	deleted	—	—	—	—	—	—	—
7	AM 117C	TE	—	—	—	—	deleted	—	—	—	—	—	—	—
8	AM 117d	TE	—	—	—	—	deleted	—	—	—	—	—	—	—
8a	AM 100A	TE	—	—	—	6	—	—	✓	—	66	—	R	46
8b	AM 101A	TE	—	—	—	↓	—	—	↓	—	↓	—	↓	↓
8c	AM 102A	TE	—	—	—	↓	—	—	↓	—	↓	—	↓	↓
8d	AM 103A	TE	—	—	—	↓	—	—	↓	—	↓	—	↓	↓
8e	AM 104A	TE	—	—	—	↓	—	—	↓	—	↓	—	↓	↓
8f	AM 105A	TE	—	—	—	↓	—	—	↓	—	↓	—	↓	↓

Code:

- B = Indicates the item is below the flood level
- ✓ or S = Indicates the item is Satisfactory
- or N = Indicates the item is Not Applicable
- UL = Indicates the item is Unresolved, Licensee identified
- P = Proprietary
- L = Licensee identified
- R = Reviewer identified
- 1 = Equipment is qualified
- 2 = Aging is less than life of plant with licensee indicating periodic replacement

- 3 = Equipment requires modification (resolution, shielding, etc.)
- 4 = Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 = Equipment not qualified
- 6 = Item identified to EQB for resolution

REVIEWER M. D. Stewart DATE 1/24/88

FACILITY North Anna 1  
SYSTEM Amb Temp Monitor

ATTACHMENT I  
FOR IEB 79-018  
TER

PAGE 2 OF 2

GES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
8g	AM 106A	TE	-	-	-	6	L	-	L	-	6	-	R	6
8h	AM 107A	TE												
8i	AM 108A	TE												
8j	AM 109B	TE												
8k	AM 1013	TE												
8m	AM 102B	TE												
8n	AM 103B	TE												
8p	AM 104B	TE												
8q	AM 105B	TE												
8r	AM 106B	TE												
8s	AM 107B	TE												
8t	AM 108B	TF												

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  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 = Equipment not qualified
- 6 = Item identified to EQB for resolution

REVIEWER H. E. [Signature] DATE 1/24/80



FACILITY North Anna 1  
SYSTEM Casing Cooling

ATTACHMENT 1  
FOR IEB 79-01B  
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PAGE 1 OF 2

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
* 9	RS 100A	MOV	L	4C	-	L	4C	-	-	-	-	-	-	1
* 10	RS 100B	MOV	L	4C	-	L	4C	-	-	-	-	-	-	1
* 11	RS 101A	MOV	L	4C	-	L	4C	-	-	-	-	-	-	1
* 12	RS 101B	MOV	L	4C	-	L	4C	-	-	-	-	-	L	4C
13														

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- 4 - Qualification of equipment unresolved
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  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER M. D. Hunt DATE 11/24/80

# Facility North Anna 1 SYSTEM Chemical & Volume Control

ATTACHMENT 1  
 FOR IEB 79-018  
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PAGE 1 OF 4

CES Page No.	Equip. I. D.	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
13	P-1A	MTR	✓	4A	-	4C	4A	-	-	-	-	-	L	4A,c
14	P-1B	MTR	✓	4A	-	4C	4A	-	-	-	-	-	L	4A,c
15	P-1C	MTR	✓	4A	-	4C	4A	-	-	-	-	-	L	4A,c
16	HCV 1200A SW	Limit	✓	11A	✓	4C	4A	-	-	-	-	-	R	4A
17	HCV 1200B SW	Limit	✓	4A	✓	4C	4A	-	-	-	-	-	R	4A
18	HCV 1200C SW	Limit	✓	11A	✓	4C	4A	-	-	-	-	-	R	4A
19	1115B	MOV	✓	4C	-	✓	4C	-	-	-	-	-	L	4C
20	1115C	MOV	✓	4C	-	✓	4C	-	-	-	-	-	L	4C
21	1115D	MOV	✓	4C	-	✓	4C	-	-	-	-	-	L	4C
22	1115E	MOV	✓	4C	-	✓	4C	-	-	-	-	-	L	4C
23	1275A	MOV	✓	11A	-	✓	11A	-	-	-	-	-	R	11A
24	1275B	MOV	✓	11A	-	✓	11A	-	-	-	-	-	R	11A

see PG 4-7

Dec 1

Dec 1

Dec 1

- 3 - Equipment requires modification (resolution, shielding, etc.)  
 4 - Qualification of equipment unresolved  
 a) Testing schedule but not complete  
 b) Reviewer needs additional information  
 c) Qual. Record search still in process  
 5 - Equipment not qualified  
 6 - Item identified to EQB for resolution

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 P - Proprietary  
 L - Licensee identified  
 R - Reviewer identified  
 1 - Equipment is qualified  
 2 - Aging is less than life of plant with licensee indicating periodic replacement

REVIEWER K. D. Humphreys DATE 1/24/80

FACILITY N A 1  
SYSTEM CVC

ATTACHMENT 1  
FOR IEB 79-018  
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PAGE 2 OF 4

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
25	1275C	MOV	L	4b	-	L	2b	-	-	-	-	-	+	1
26	1286A	MOV	L	4c	-	4c	4c	-	-	-	-	-	L	4c
27	1286B	MOV	L	4c	-	4c	4c	-	-	-	-	-	L	4c
28	1286C	MOV	L	L	-	L	L	-	-	-	-	-	-	1
29	1287A	MOV	L	L	-	L	L	-	-	-	-	-	-	1
30	1287B	MOV	L	L	-	L	L	-	-	-	-	-	-	1
31	1287C	MOV	L	L	-	L	L	-	-	-	-	-	-	1
32	1289A	MOV	L	L	-	L	L	-	-	-	-	-	-	1
33	1289B	MOV	L	L	-	L	L	-	-	-	-	-	-	1
34	135D	MOV	L	L	-	L	L	-	-	-	-	-	-	1
35	1373	MOV	L	L	-	L	L	-	-	-	-	-	-	1
36	1381	MOV	L	L	-	L	L	-	-	-	-	-	-	1

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REVIEWER M. D. [Signature] DATE 11/26/80

FACILITY N A ISYSTEM CVCATTACHMENT 1  
FOR IEB 79-01B  
TERPAGE 3 OF 4

CES. Page No.	Equip. I. D.	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
37	1867A	MOV	L	L	-	L	L	-	-	-	-	-	-	1
38	1867B	MOV	L	L	-	L	L	-	-	-	-	-	-	1
39	1867C	MOV	L	L	-	L	L	-	-	-	-	-	-	1
40	1867D	MOV	L	L	-	L	L	-	-	-	-	-	-	1
41	1200 A-2	SV									yes		L	3
42	1200 B-2	SV									yes		L	3
43	1200 C-2	SV									yes		L	3
44	1204	SV									yes		L	3
45	1460A	SV									yes		L	3
46	1460B	SV									yes		L	3
47	1370	MOV	L	L	-	L	L	-	-	-	-	-	-	1
47a	1200 A-1	SV									yes		L	3

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P - Proprietary

L - Licensee identified

R - Reviewer identified

i - Equipment is qualified

2 - Aging is less than life of plant with licensee

Indicating periodic replacement

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EQB for resolution

REVIEWED 4/28/80 DATE 12/1/80

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SYSTEM

ATTACHMENT I  
FOR 1EB 79-01B  
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REVIEWER W. H. Bennett DATE 12/1/80



# FACILITY North Anna 1 SYSTEM Common Elect Equip

ATTACHMENT 1  
FOR IEB 79-015  
TER

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CES. Page No.	Equip. I. D.	Generic Name	Accid. Profile	Qual. Profile	Regulation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subs.	Licensee Action		Outstanding Items identified by	Category of Items
					Inside	Outside					Replace	Relocate		
48	Spec 21 IA1	EPA	✓	✓	✓	✓	4B	✓	✓	✓	✓	✓	R	4B
49	Spec 21 IB	EPA	✓	✓	✓	✓	4B	✓	✓	✓	✓	✓	R	4B
50	Spec 21 IC	EPA	✓	✓	✓	✓	4B	✓	✓	✓	✓	✓	R	4B
51	Spec 21 IIA	EPA	✓	✓	✓	✓	4B	✓	✓	✓	✓	✓	R	4B
52	Spec 21 IIB	EPA	✓	✓	✓	✓	4B	✓	✓	✓	✓	✓	R	4B
53	Spec 21 IIC	EPA	✓	✓	✓	✓	4B	✓	✓	✓	✓	✓	R	4B
54	Spec 21 IID	EPA	✓	✓	✓	✓	4B	✓	✓	✓	✓	✓	R	4B
55	Spec 21 IIE	EPA	✓	✓	✓	✓	4B	✓	✓	✓	✓	✓	R	4B
56	Spec 21 III	EPA	✓	✓	✓	✓	4B	✓	✓	✓	✓	✓	R	4B
57	Spec 21 IV	EPA	✓	✓	✓	✓	4B	✓	✓	✓	✓	✓	R	4B
58	T-95	TAPE	✓	✓	✓	✓	4B	✓	✓	✓	✓	✓	R	4B
59	35	TAPE	✓	✓	✓	✓	4B	✓	✓	✓	✓	✓	R	4B

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EQB for resolution

8 - Indicates the item is below the flood level

✓ or S - Indicates the item is Satisfactory

- or N - Indicates the item is Not Applicable

UL - Indicates the item is Unresolved, Licensee identified

P - Proprietary

L - Licensee identified

R - Reviewer identified

1 - Equipment is qualified

2 - Aging is less than life of plant with licensee indicating periodic replacement

REVIEWER Walt H. H. H. DATE 12/1/88

FACILITY North Anna 1  
SYSTEM Common Elect Equip

ATTACHMENT 1  
FOR IEB 79-01B  
TEN

PAGE 2 OF 8

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
60	CONNec- TREN	TB	✓	✓	✓	—	4b	✓	—	—	—	—	R	4b
61	WCSF- N	splicing MTR1	✓	✓	✓	—	4b	✓	—	—	—	—	R	4b
62	CONAX	splicing MTR1	✓	✓	✓	✓	✓	✓	—	—	—	—	—	1 doc.1
63	HVT HVMC	TAC	✓	✓	—	✓	4b	—	—	—	—	—	R	4b
64	MALB THAN	TB	✓	✓	—	✓	4b	—	—	—	—	—	R	4b
65	NSE-3 NSS-3 PSU	TB	✓	✓	—	✓	4b	—	—	—	—	—	R	4b
66	Thermo Elect No 3225	TB	✓	✓	—	✓	4b	—	—	—	—	—	R	4b
67	GEN Elect	TB	✓	✓	—	✓	4b	—	—	—	—	—	R	4b
68	(W)	TB	✓	✓	—	✓	4b	—	—	—	—	—	R	4b
68a	Spec N109 NCA3	cable	✓	✓	—	✓	4b	—	—	—	—	—	R	4b
69	Spec N109 NCA4	cable	✓	✓	—	✓	4b	—	—	—	—	—	R	4b
70	Spec. N109 NCA5	cable	✓	✓	—	✓	4b	—	—	—	—	—	R	4b

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  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER M. P. Hunt DATE 12/1/80



# FACILITY North Annex 1 SYSTEM Common Elect. Equip

ATTACHMENT 1  
FOR IEB 79-018  
TER

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CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subs.	Licenses Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
71	Spec 108 NGA6	cable	✓	✓	-	✓	4V	-	-	-	-	-	R	4V
72	Spec 109 NGA9	cable	✓	✓	-	✓	4V	-	-	-	-	-	R	4V
73	Spec 108 NGA10	cable	✓	✓	-	✓	4V	-	-	-	-	-	R	4V
74	Spec 108 NGA12	cable	✓	✓	-	✓	4V	-	-	-	-	-	R	4V
75	Spec 108 NGA13	cable	✓	✓	-	✓	4V	-	-	-	-	-	R	4V
76	Spec 114 NGB5	cable	✓	✓	✓	✓	4V	✓	-	-	-	-	R	4V
77	Spec 116 NGD-7	cable	✓	✓	✓	✓	4V	✓	-	-	-	-	R	4V
78	Spec 114 NGB-11	cable	✓	✓	✓	✓	4V	✓	-	-	-	-	R	4V
79	Spec 114 NGB-12	cable	✓	✓	✓	✓	4V	✓	-	-	-	-	R	4V
80	Spec 116-A NGA20	cable	✓	✓	✓	✓	4V	✓	-	-	-	-	R	4V
81	Spec 116-M NGA-21	cable	✓	✓	✓	✓	4V	✓	-	-	-	-	R	4V
82	Spec 116-M NGB-15	cable	✓	✓	✓	✓	4V	✓	-	-	-	-	R	4V

3 - Equipment requires modification (resolution, bhtolding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Items identified to EQB for resolution

8 - Indicates the item is below the flood level

✓ or S - Indicates the item is Satisfactory

- or N - Indicates the item is Not Applicable

UL - Indicates the item is Unresolved, Licenses identified

P - Proprietary

L - License identified

R - Reviewer identified

1 - Equipment is qualified

2 - Aging is less than life of plant with licensee

Indicating periodic replacement

REVIEWER W.D. Bennett DATE 12/1/80

FACILITY North Anna 1  
SYSTEM Common Elect Equip.

ATTACHMENT I  
FOR IEB 79-01B  
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PAGE 4 OF 8

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
83	Spec # 116A NGB-16	cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
84	Spec # 116A NGB-17	cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
85	Spec # 116A NGB-18	cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
86	Spec # 116A NGB-19	cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
87	Spec # 120 NGA-17	cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
88	Spec # 120 NGA-34	cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
89	Spec # 120 NGA-35	cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
90	Spec # 120 NGA-36	cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
91	Spec # 120 NGA-37	cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
92	Spec # 120 NGA-38	cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
93	Spec # 120 NGA-39	cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
94	Spec # 120 NGA-40	cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b

Code:

- B - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or N - Indicates the item is Not Applicable
- UL - Indicates the item is Unresolved, Licensee identified
- P - Proprietary
- L - Licensee identified
- R - Reviewer identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER Maxwell DATE 12/1/80

# ATTACHMENT 1 FOR IEB 79-018 TER

PAGE 5 OF 8

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
95	Spec # 120 NSA-44	Cable	✓	✓	✓	✓	46	✓	-	-	-	-	R	46
96	Spec # 120 NSA-45	Cable	✓	✓	✓	✓	46	✓	-	-	-	-	R	46
97	Spec # 120 NSA-47	Cable	✓	✓	✓	✓	46	✓	-	-	-	-	R	46
98	Spec # 120 NSA-47	Cable	✓	✓	✓	✓	46	✓	-	-	-	-	R	46
99	Spec # 120 NSA-57		✓	✓	✓	✓	46	✓	-	-	-	-	R	46
100	Spec # 120 NSA-77		✓	✓	✓	✓	46	✓	-	-	-	-	R	46
101	Spec # 120 NSA-43		✓	✓	✓	✓	46	✓	-	-	-	-	R	46
101a	Spec # 120 NSA-44		✓	✓	✓	✓	46	✓	-	-	-	-	R	46
101b	Spec # 120 NSA-45		✓	✓	✓	✓	46	✓	-	-	-	-	R	46
102	Spec # 122 NSA-15		✓	✓	✓	✓	46	✓	-	-	-	-	R	46
103	Spec # 128 NSA-47		✓	✓	✓	✓	46	✓	-	-	-	-	R	46
104	Spec # 128 NSA-48		✓	✓	✓	✓	46	✓	-	-	-	-	R	46

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EQB for resolution

8 - Indicates the item is below the flood level

✓ or S - Indicates the item is Satisfactory

- or N - Indicates the item is Not Applicable

UL - Indicates the item is Unresolved, Licensee identified

P - Proprietary

L - Licensee identified

R - Reviewer identified

1 - Equipment is qualified

2 - Aging is less than life of plant with licensee

indicating periodic replacement

REVIEWER: *[Signature]* DATE: 12/1/80

# FACILITY: North Annex 1 SYSTEM: Common Elect Equip

ATTACHMENT 1  
 FOR IEB 79-018  
 TER

PAGE 4 OF 8

CES Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subs.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
105	Spec # 128	NEA 67 cable	✓	✓	✓	✓	46	✓	—	—	—	—	R	46
106	Spec # 128	NEA 70 cable	✓	✓	✓	✓	46	✓	—	—	—	—	R	46
107	Spec # 128	NEA 35 cable	✓	✓	✓	✓	46	✓	—	—	—	—	R	46
108	Spec # 128	NEA 39	✓	✓	✓	✓	46	✓	—	—	—	—	R	46
109	Spec # 128	NEA 40	✓	✓	✓	✓	46	✓	—	—	—	—	R	46
110	Spec # 128	NEA 55	✓	✓	✓	✓	46	✓	—	—	—	—	R	46
111	Spec # 428	NEA 3	✓	✓	—	✓	46	—	—	—	—	—	R	46
112	Spec # 428	NEA 4	✓	✓	—	✓	46	—	—	—	—	—	R	46
113	Spec # 428	NEA 13	✓	✓	—	✓	46	—	—	—	—	—	R	46
114	Spec # 428	NEA 24	✓	✓	—	✓	46	—	—	—	—	—	R	46
115	Spec # 428	NEA 5	✓	✓	✓	✓	46	✓	—	—	—	—	R	46
116	Spec # 428	NEA 7	✓	✓	✓	✓	46	✓	—	—	—	—	R	46

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EQB for resolution

8 - Indicates the item is below the flood level

✓ or S - Indicates the item is Satisfactory

- or N - Indicates the item is Not Applicable

UL - Indicates the item is Unresolved, Licensee Identified

P - Proprietary

L - Licensee Identified

R - Reviewer Identified

1 - Equipment is qualified

2 - Aging is less than life of plant with licensee indicating periodic replacement

REVIEWER: W.D. [Signature] DATE: 12/1/80



# FACILITY North Anna 7 SYSTEM Common Electric Equip

ATTACHMENT 1  
FOR IEB 79-01B  
TER

PAGE 7 OF 8

CES. Page No.	Equip. I. B. #	Genetic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subs.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
117	Spec # 429		✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
118	NEB-11 Spec # 429	Cable	✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
119	Spec # 430		✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
120	NEA-47 Spec # 430		✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
121	NEA-48 Spec # 430		✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
122	NEA-70 Spec # 430		✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
123	NEB-35 Spec # 430		✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
124	NEB-37 Spec # 431		✓	✓	✓	✓	4b	✓	-	-	-	-	R	4b
125	MC-19	MCC	✓	✓	-	✓	✓	-	-	-	-	-	-	1
126	MC-20		✓	✓	-	✓	✓	-	-	-	-	-	-	1
127	MC-21		✓	✓	-	✓	✓	-	-	-	-	-	-	1
128	MC-22		✓	✓	-	✓	✓	-	-	-	-	-	-	1

Code: 3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EQB for resolution

B - Indicates the item is below the flood level

✓ or S - Indicates the item is Satisfactory

- or N - Indicates the item is Not Applicable

UL - Indicates the item is Unresolved, Licensee identified

P - Proprietary

L - Licensee identified

R - Reviewer identified

1 - Equipment is qualified

2 - Aging is less than life of plant with licensee

indicating periodic replacement

REVIEWER M. D. Hunt DATE 12/1/80

# FACILITY North Anna 1 SYSTEM Common Elect. Equip

ATTACHMENT I  
FOR IEB 79-018  
TER

PAGE 8 OF 8

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile #	Radiation Gupl. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
129	55-03	56	✓	✓	—	4c	4b	—	—	—	—	—	2, R	4c4b
130	55-04	56	✓	✓	—	4c	4b	—	—	—	—	—	2, R	4c4b
131	5T 01	TRANS.	✓	✓	—	4c	4b	—	—	—	—	—	2, R	4c4b
132	5T 02	TRANS.	✓	✓	—	4c	4b	—	—	—	—	—	R	4b
132a	MC 19	MCC	✓	✓	—	✓	4b	—	—	—	—	—	R	4b
132b	MC 20	MCC	✓	✓	—	✓	4b	—	—	—	—	—	R	4b
132c	MC 22	MCC	✓	✓	—	✓	4b	—	—	—	—	—	R	4b

Code:

- 8 - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or N - Indicates the item is Not Applicable
- UL - Indicates the item is Unresolved, Licensee Identified
- P - Proprietary
- L - Licensee Identified
- R - Reviewer Identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensees indicating periodic replacement
- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER M. B. B. B. DATE 12/1/80

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
133	100A	SV									yes		L	3
134	100B	SV									yes		L	3
135	100C	SV									yes		L	3
136	101A	SV									yes		L	3
137	101B	SV	✓	✓	6	—	4r	6	—	—	—	—	R	6, 4r
138	102A	SV									yes		L	3
139	102B	SV	✓	✓	6	—	4r	6	—	—	—	—	R	6, 4r
140	102C	SV									yes		L	3
141	102D	SV	✓	✓	6	—	4r	6	—	—	—	—	R	6, 4r
142	102E	SV									yes		L	3
143	102F	SV	✓	✓	✓	—	4r	6	—	—	—	—	R	4r, 6
144	103A	SV									yes		L	3

Code:

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- L - Licensee identified
- R - Reviewer identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER W. H. H. H. DATE 12/1/80



FACILITY NORTH ANNE 1  
SYSTEM Component Cooling

ATTACHMENT 1  
FOR IEM 79-018  
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PAGE 2 OF 2

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Quali. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
145	103B	SV									yes		L	3
146	104A-1	SV									yes		L	3
147	104A-2	SV									yes		L	3
148	104B-1	SV									yes		L	3
149	104B-2	SV									yes		L	3
150	104C-1	SV									yes		L	3
151	104C-2	SV									yes		L	3
152	105A	SV	✓	✓	6	-	46	6	-	-	-	-	R	46,6
153	105B	SV	✓	✓	6	-	46	6	-	-	-	-	R	46,6
154	105C	SV	✓	✓	6	-	46	6	-	-	-	-	R	46,6

Code:

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- P - Proprietary
- L - Licensee identified
- R - Reviewer identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

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Dec 1  
Dec 1  
Dec 1

REVIEWER Midwest DATE 12/1/80

FACILITY North Anna 1  
SYSTEM Containment Purge

ATTACHMENT 1  
FOR IEB 79-018  
TER

PAGE 1 OF 1

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
<del>155</del>	<del>100A</del>	<del>MOV</del>												
<del>156</del>	<del>100B</del>	<del>MOV</del>												
<del>157</del>	<del>100C</del>	<del>MOV</del>												
<del>158</del>	<del>100D</del>	<del>MOV</del>												
<del>159</del>	<del>101</del>	<del>MOV</del>												
* 160	130A	SV									YES		L	3
* 161	150B	SV									YES		L	3
* 162	150C	SV									YES		L	3
* 163	150D	SV									YES		L	3
164	150H	LT									YES			3
165	150I	LT									YES			3

Code:

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- UL - Indicates the item is Unresolved, Licensee identified
- P - Proprietary
- L - Licensee identified
- R - Reviewer identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQN for resolution

REVIEWER M. D. Hunt DATE 12/1/80

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FACILITY North Anna 1  
SYSTEM Feedwater

ATTACHMENT I  
FOR IEN 79-01B  
TER

PAGE 1 OF 1

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
164	1479	LT	1								yes		L	3
165	1475	LT									yes		L	3
166	1476	LT									yes		L	3
167	1484	LT									yes		L	3
168	1485	LT									yes		L	3
169	1486	LT									yes		L	3
170	1494	LT									yes		L	3
171	1495	LT									yes		L	3
172	1496	LT									yes		L	3

pg  
413

Code:

- B - Indicates the item is below the flood level
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- P - Proprietary
- L - Licensee identified
- R - Reviewer identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER M. D. Hunt DATE 12/4/80

FACILITY North Anna 1  
SYSTEM HVAC/Control Room

ATTACHMENT 1  
FOR IEB 79-018  
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PAGE 1 OF     

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensed Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replaces	Relocates		
173	E 4A	A/FILL SHILLER	✓	6	—	—	6	—	—	—	—	—	R	6
174	E 4B	↓	✓	6	—	—	6	—	—	—	—	—	R	6
175	E 4C	↓	✓	6	—	—	6	—	—	—	—	—	R	6
176	F 24	MTR	✓	6	—	—	6	—	—	—	—	—	R	6
177	HV P-20A	MTR	✓	6	—	—	6	—	—	—	—	—	R	6
178	HV P-20B	MTR	✓	6	—	—	6	—	—	—	—	—	R	6
179	HV P-20C	MTR	✓	6	—	—	6	—	—	—	—	—	R	6
180	HV P-22A	MTR	✓	6	—	—	6	—	—	—	—	—	R	6
181	HV-P 22B	MTR	✓	6	—	—	6	—	—	—	—	—	R	6
182	HV-P -22C	MTR	✓	6	—	—	6	—	—	—	—	—	R	6
183	HV-S 1A	STRN	✓	6	—	—	6	—	—	—	—	—	R	6
184	HV-S 1B	STRN	✓	6	—	—	6	—	—	—	—	—	R	6

Code:

8 - Indicates the item is below the flood level

✓ or S - Indicates the item is Satisfactory

- or N - Indicates the item is Not Applicable

UL - Indicates the item is Unresolved, licensee identified

P - Proprietary

L - Licensee identified

R - Reviewer identified

1 - Equipment is qualified

2 - Aging is less than life of plant with licensee  
indicating periodic replacement

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EJM for resolution

REVIEWER M. D. Hunt DATE 12/1/80



FACILITY NORTH AREA 2

SYSTEM HVAC

ATTACHMENT 1  
FOR FEB 79-01B  
TER

PAGE 1 OF 2

LES Page No.	Equip. I.D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Cham. Spray	Accur.	Subm.	Licensee Action		Outstanding Issues Identified by	Category of Items
					Inside	Outside					Replace	Re-evaluate		
185	115-1	MOV	✓	6	-	-	6	-	-	-	-	-	R	6
186	115-2	MOV	✓	6	-	-	6	-	-	-	-	-	R	6
187	116-1	MOV	✓	6	-	-	6	-	-	-	-	-	R	6
188	116-2	MOV	✓	6	-	-	6	-	-	-	-	-	R	6
189	F-8A	MTR	4C	4C	-	-	4C	-	-	-	-	-	L	4C
190	F-8B	MTR	4C	4C	-	-	4C	-	-	-	-	-	L	4C
191	F-8C	MTR	4C	4C	-	-	4C	-	-	-	-	-	L	4C
192	HV 143A	MDD		4C							yes		L	3
193	HV 143B	MDD									yes		L	3
194	HV 143C	MDD									yes		L	3
195	HV 123D	TS									Modify		L	3
196	F 71A	MTR									yes		L	3

P8  
6-12

3 - Equipment requires modification (resolution, shielding, etc.)  
4 - Qualification of equipment unresolved  
a) Testing schedule but not complete  
b) Reviser needs additional information  
c) Qual. Record search still in process  
5 - Equipment not qualified  
6 - Item identified to EQB for resolution

8 - Indicates the item is below the flood level  
9 - Indicates the item is satisfactory  
10 - Indicates the item is not applicable  
11 - Indicates the item is unresolved, licensee identified  
P - Proprietary  
L - Licensee identified  
R - Reviewer identified  
I - Equipment is qualified  
2 - Aging is less than life of plant with licensee indicating periodic replacement

REVIEWER W. H. Hunt DATE 12/1/80



FACILITY North Plaza 1  
SYSTEM Hydrogen Recombiner

ATTACHMENT 1  
FOR 1EB 79-01B  
TER

PAGE 1 OF 1

[illegible]

Code:

- B - Indicates the item is below the flood level

- ✓ or S = Indicates the item is Satisfactory

- or N = Indicates the item is Not Applicable

- UL - Indicates the item is Unresolved, Licensee Identified

- P = Proprietary

- L = Licensee identified

- R = Reviewer Identified

- 1 = Equipment is qualified

- 2 = Aging is less than life of plant with licensee indicating periodic replacement

- 3 = Equipment requires modification (resolution, shielding, etc.)

- 4 = Qualification of equipment unresolved

- a) Testing schedule but not complete

- b) Reviewer needs additional information

- c) Qual. Record search still in process

- 5 = Equipment not qualified

- 6 - Item identified to EQB for resolution

REVIEWER M. S. [unclear] DATE 12/2/81



# Facility North Anna 1 System Inside Reactor Spray

ATTACHMENT 1  
FOR IEB 79-01B  
TER

PAGE 1 OF 1

CES Page No.	Equip. I. D.	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Cham. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
202	P-1A	MTR	✓	✓	✓	—	✓	✓	—	—	—	—	—	1
203	P-1B	MTR	✓	✓	✓	—	✓	✓	—	—	—	—	—	1
204	RS-151A	LT	✓	✓	✓	—	✓	✓	—	—	—	—	R	4/6
205	RS-151B	LT	✓	✓	✓	—	✓	✓	—	—	—	—	R	4/6
206	RS-151A	LIT										yes	L	3
207	RS-151B	LIT										yes	L	3

44-23

Code:

B - Indicates the item is below the flood level  
3 - Equipment requires modification (resolution, shielding, etc.)

or S - Indicates the item is Satisfactory  
4 - Qualification of equipment unresolved

- or R - Indicates the item is Not Applicable  
a) Testing schedule but not complete

UL - Indicates the item is Unresolved, Licensee Identified  
b) Reviewer needs additional information

P - Proprietary  
c) Qual. Record search still in process

L - Licensee Identified  
5 - Equipment not qualified

R - Reviewer Identified  
6 - Item identified to EQB for resolution

I - Equipment is qualified

Z - Aging is less than life of plant with licensee

indicating periodic replacement

REVIEWER *M. Othman* DATE *12/1/83*

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
209	101B	SV	✓	6	-	Defect							R	6
210	102A	SV	✓	6	-	6	6	✓						6
211	102B	SV	✓	6	-	6	6							6
206	101A	SV	✓	✓	✓	Defect							R	45

Code:

- B - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or N - Indicates the item is Not Applicable
- UL - Indicates the item is Unresolved, licensee identified
- P - Proprietary
- L - Licensee identified
- R - Reviewer identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER M. D. Hunt DATE 12/1/80

ES. Page No.	Equip. I. D.	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
212	100A	PT	✓	✓	—	✓	✓	—	—	—	—	—	—	1
213	100B	PT	✓	✓	—	✓	✓	—	—	—	—	—	—	1
214	100C	PT	✓	✓	—	✓	✓	—	—	—	—	—	—	1
215	100D	PT	✓	✓	—	✓	✓	—	—	—	—	—	—	1
216	100A	SV									yes		L	3
217	100B	SV									yes		L	3
218	100C	SV									yes		L	3
219	100D	SV									yes		L	3
220	100E	SV									yes		L	3
221	100F	SV									yes		L	3
222	100G	SV									yes		L	3
223	100H	SV									yes		L	3

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EQB for resolution

B - Indicates the item is below the flood level

S - Indicates the item is Satisfactory

N - Indicates the item is Not Applicable

U - Indicates the item is Unresolved, Licensee Identified

P - Proprietary

L - Licensee Identified

R - Reviewer Identified

1 - Equipment is qualified

2 - Aging is less than life of plant with Licensee

Indicating periodic replacement

FACILITY: North Anna 1  
SYSTEM: Leakage Monitoring

ATTACHMENT 1  
FOR IED 79-01B  
TER

PAGE 2 OF 2

[illegible]

Code:

- B - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or R - Indicates the item is Not Applicable
- UL - Indicates the item is Unresolved, Licensee Identified
- P - Proprietary
- L - Licensee Identified
- R - Reviewer Identified
- I - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER: M. H. Hunt DATE 12/1/80

# Facility North Anna System Main Steam

ATTACHMENT 1  
FOR IEB 79-01B  
TER

PAGE 1 OF 3

CES Page No.	Equip. I. D.	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
228	1474	FT									yes		L	3
229	1475	FT									yes		L	3
230	1484	FT									yes		L	3
231	1485	FT									yes		L	3
232	1494	FT									yes		L	3
233	1495	FT									yes		L	3
234	1474	PT									yes		L	3
235	1475	PT									yes		L	3
236	1476	PT									yes		L	3
237	1484	PT									yes		L	3
238	1485	PT									yes		L	3
239	1486	PT									yes		L	3

3 - Equipment requires modification (resolution, shielding, etc.)  
4 - Qualification of equipment unresolved  
a) Testing schedule but not complete  
b) Reviewer needs additional information  
c) Qual. Record search still in process  
5 - Equipment not qualified  
6 - Item identified to EQB for resolution

B - Indicates the item is below the flood level  
or S - Indicates the item is Satisfactory  
or N - Indicates the item is Not Applicable  
or U - Indicates the item is Unresolved, Licensee Identified  
P - Proprietary  
L - Licensee Identified  
R - Reviewer Identified  
1 - Equipment is qualified  
2 - Aging is less than life of plant with licensee indicating periodic replacement

REVIEWER *W. E. E. E. E.* DATE 12/1/80



# Facility North Anna 1 System Main Steam

ATTACHMENT 1  
FOR IER 79-016  
TER

PAGE 2 OF 3

CES Page No.	Equip. I. D.	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
240	1494	PT									yes		L	3
241	1495	PT									yes		L	3
242	1496	PT									yes		L	3
243	10A-1	SV									yes		L	3
244	10A-2	SV									yes		L	3
245	10A-4	SV									yes		L	3
246	10A-2	SV									yes		L	3
247	10B-1	SV									yes		L	3
248	10B-2	SV									yes		L	3
249	10B-4	SV									yes		L	3
250	10B-5	SV									yes		L	3
251	10C-1	SV									yes		L	3

pg 6-12

3 - Equipment requires modification (replacement, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EQB for resolution

R - Indicates the item is below the flood level

S - Indicates the item is Satisfactory

N - Indicates the item is Not Applicable

UL - Indicates the item is Unresolved, Licensee Identified

P - Proprietary

L - Licensee Identified

R - Reviewer Identified

1 - Equipment is qualified

2 - Aging is less than life of plant with license

Indicating periodic replacement

REVIEWER M. C. Eland DATE 12/1/80

FACILITY North Anna 4  
SYSTEM Main Steam

ATTACHMENT 1  
FOR IEB 79-01B  
TER

PAGE 3 OF 3

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
252	101C-2	SV									yes	1	L	3
254	101C-5	SV									yes		L	3
255	109A	SV									yes		L	3
256	109B	SV									yes		L	3
257	111A	SV									yes		L	3
258	111B	SV									yes		L	3
259	113A-1	SV									yes		L	3
260	113A-2	SV									yes		L	3
261	113B-1	SV									yes		L	3
261a	113B-2	SV									yes		L	3
262	113C-1	SV									yes		L	3
263	113C-2	SV									yes		L	3

Code:

- B - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or N - Indicates the item is Not Applicable
- UL - Indicates the item is Unresolved, licensee Identified
- P - Proprietary
- L - Licensee Identified
- R - Reviewer Identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER W. J. Bennett DATE 12/1/80

# Facility North Annex SYSTEM Outside Rescue Spray

ATTACHMENT 1  
FOR IEB 79-01B  
TER

PAGE 1 OF 1

CES. Page No.	Equip. I. D.	Generic Name	Accid. Profile	Qual. Profile	Qualification Qual.		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
* 244	P-2A	MTR	✓	4C	✓	4C	46	✓	✓	✓	✓	✓	L R	46, c
* 245	P-2B	MTR	✓	4C	✓	4C	46	✓	✓	✓	✓	✓	L R	46, c
* 246	155A	MDV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
* 247	155B	MDV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
248	156A	MDV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
249	156B	MDV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

P. 8  
G. 6

- Code:
- B - Indicates the item is below the flood level
  - ✓ or S - Indicates the item is satisfactory
  - or N - Indicates the item is Not Applicable
  - UL - Indicates the item is Unresolved, Licensee identified
  - P - Proprietary
  - L - Licensee identified
  - R - Reviewer identified
  - 1 - Equipment is qualified
  - 2 - Aging is less than life of plant with license
  - Indicating periodic replacement
  - 3 - Equipment requires modification (resolution, shielding, etc.)
  - 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
  - 5 - Equipment not qualified
  - 6 - Item identified to EQB for resolution

REVIEWER *Matthew* DATE *12/1/88*

FACILITY North Anne 1  
SYSTEM PL, PLT Vent & Drains

ATTACHMENT I  
FOR IEB 79-01B  
TER

PAGE 1 OF 1

[illegible]

Code:

- B - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or N - Indicates the item is Not Applicable
- UI - Indicates the item is Unresolved, Licensee identified
- P - Proprietary
- L - Licensee identified
- R - Reviewer identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER M. O'Brien DATE 12/2/80

FACILITY North Anna 1  
SYSTEM Quench Spray

ATTACHMENT 1  
FOR 1EB 79-01B  
TER

PAGE 1 OF 1

[illegible]

Code:

- B - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or N - Indicates the item is Not Applicable
- UL - Indicates the item is Unresolved, licensee identified
- P - Proprietary
- L - Licensee identified
- R - Reviewer identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER M. Delmont DATE 12/2/80



Facility North Anna 2  
System Radiation Monitoring

A. TACHMENT I  
FOR IEB 79-01B  
TEK

PAGE 1 OF 1

[illegible]

Code:

- B - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or N - indicates the item is Not Applicable
- UL - Indicates the item is Unresolved, Licensee identified
- F - Proprietary
- L - Licensee identified
- R - Reviewer identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER MA Bennett DATE 12/2/80

FACILITY North Anna 4  
SYSTEM RCP Seal Water

ATTACHMENT 1  
FOR 1EB 79-01B  
TER

PAGE 1 OF 1

[illegible]

Code:

- B - Indicates the item is below the flood level

- ✓ or S = Indicates the item is Satisfactory

- or N = indicates the item is Not Applicable \*

- UL - Indicates the item is Unresolved, Licensee identified

- P = Proprietary

- L = Licensee Identified

- R = Reviewer Identified

- 1 = Equipment is qualified

- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)

- 4 - Qualification of equipment unresolved

- a) Testing schedule but not complete

- b) Reviewer needs additional information

- c) Qual. Record search still in process

- 5 = Equipment not qualified

- 6 - item identified to EQB for resolution

REVIEWER not used DATE 12/2/83

# Facility North Anna 1 System Reactor Coolant

ATTACHMENT 1  
FOR IEB 79-01B  
TER

PAGE 1 OF 3

CES Page No.	Equip. I. D.	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Confirmation		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
284	1414	FT					Delet							
285	1415	FT					Delet							
286	1416	FT					Delet							
287	1421	FT					Delet							
288	1425	FT					Delet							
289	1426	FT					Delet							
290	1429	FT					Delet							
291	1435	FT					Delet							
292	1436	FT					Delet							
293	1459	LT									yes		L	3
294	1460	LT									yes		L	3
295	1461	LT									yes		L	3

Page 6-14

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved  
a) Testing schedule but not complete  
b) Reviewer needs additional information  
c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EQB for resolution

8 - Indicate the item is below the flood level

9 - Indicate the item is satisfactory

10 - Indicate the item is not applicable

11 - Indicate the item is unresolved, licensee identified

P - Proprietary

L - Licensee identified

R - Reviewer identified

1 - Equipment is qualified

2 - Aging is less than life of plant with licensee

Indicating periodic replacement

REVIEWER *[Signature]* DATE 12/2/81

# FACILITY North Anna 1 SYSTEM Reactor Coolant

ATTACHMENT 1  
 FOR FEB 79-01B  
 TWR

PAGE 2 OF 3

CLS Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Contamination		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
296	1455	PT									yes		L	3
297	1456	PT									yes		L	3
298	1457	PT									yes		L	3
299	1519	SV									yes		L	3
300	1410	TE									yes		L	2
301	1412B	TE									yes		L	2
302	1412D	TE									yes		L	2
303	1413	TE									yes		L	2
304	1420	TE									yes		L	2
305	1422B	TE									yes		L	2
306	1422D	TE									yes		L	2
307	1423	TE									yes		L	2

3 - Equipment requires modification (resolution, shielding, etc.)  
 4 - Qualification of equipment unresolved  
 a) Testing schedule but not complete  
 b) Reviewer needs additional information  
 c) Qual. Record search still in process  
 5 - Equipment not qualified  
 6 - Item identified to EOP for resolution

B - Indicates the item is below the flood level  
 S - Indicates the item is Satisfactory  
 R - Indicates the item is Not Applicable  
 BL - Indicates the item is Unresolved, Licensee Identified  
 P - Proprietary  
 L - Licensee Identified  
 R - Reviewer Identified  
 I - Equipment is qualified  
 Z - Aging is less than life of plant with Licensee indicating periodic replacement

REVIEWER MS. Akant DATE 12/2/80





North Anne 1

SYSTEM Relay Room Sump Pump

A = EACH MINUTE.

FOR FILE 79-010

TEK

PAGE 1 OF 1

[illegible]

code:

- B - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or N - Indicates the item is Not Applicable
- U - Indicates the item is Unresolved, Licensee identified
- P - Proprietary
- L - Licensee identified
- R - Reviewer identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQH for resolution

REVIEWER W. B. Hunt DATE 12/2/89

# Facility North Anna 1 System Safety Inspection

ATTACHMENT 1  
FOR IEB 79-01B  
TIR

PAGE 1 OF 4

CES Page No.	Equip. I. D.	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
313	P-01A	MTR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
314	P-01B	MTR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
315	1940	FT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
316	1943	FT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
317	1267A	MOV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
318	1267B	MOV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
319	1269A	MOV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
320	1269B	MOV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
321	1270A	MOV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
322	1270B	MOV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
323	1836	MOV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
324	1860A	MOV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to LEP for resolution

B - Indicates the item is below the flood level

or 5 - Indicates the item is Satisfactory

or H - Indicates the item is Not Applicable

UL - Indicates the item is Unresolved, Licensee Identified

P - Proprietary

L - Licensee Identified

R - Reviewer Identified

1 - Equipment to qualified

2 - Aging is less than life of plant with Licensee

Indicating periodic replacement

REVIEWER *Michael* DATE *12/2/83*

FACILITY *North Anna 1*  
SYSTEM *Safety Injection*

ATTACHMENT I  
FOR IEB 79-01B  
TFR

PAGE *2* OF *4*

CES. Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
325	1860B	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1
326	1862A	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1
327	1862B	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1
328	1863A	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1
329	1863B	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1
330	1864A	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1
331	1864B	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1
332	1865A	MOV	—	—	—	—	—	—	—	—	—	—	—	—
333	1865B	MOV	—	—	—	—	—	—	—	—	—	—	—	—
334	1865C	MOV	—	—	—	—	—	—	—	—	—	—	—	—
335	1867A	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1
336	1867B	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1

Code:

- ✓ or B - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or N - Indicates the item is Not Applicable
- UL - Indicates the item is Unresolved, Licensee Identified
- P - Proprietary
- L - Licensee Identified
- R - Reviewer Identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER *W. R. Hunt* DATE *12/2/80*

# Facility North Anna 1 System Safety Inspection

ATTACHMENT 1  
FOR FEB 79-01B  
TER

PAGE 3 OF 4

CBS Page No.	Equip. I. D.	Generic Name	Acc'd. Profile	Qual. Profile	Radiation Qual. Cont. at Mach		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
337	1885A	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1
338	1885B	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1
339	1885C	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1
340	1885D	MOV	✓	✓	—	✓	✓	—	—	—	—	—	—	1
341	1890A	MOV	✓	4C	—	✓	4C	—	—	—	—	—	L	4C
342	1890B	MOV	✓	4C	—	✓	4C	—	—	—	—	—	L	4C
343	1890C	MOV	✓	4C	—	✓	4C	—	—	—	—	—	L	4C
344	1890D	MOV	✓	4C	—	✓	4C	—	—	—	—	—	L	4C
345	100A	SV		✓							yes		L	3
346	100B	SV									yes		L	3
347	101	SV									yes		L	3
348	1936	SV									yes		L	3

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EQB for resolution

H - Indicates the item is below the flood level

S - Indicates the item is satisfactory

N - Indicates the item is not applicable

UL - Indicates the item is unresolved, Licensee Identified

P - Proprietary

L - Licensee Identified

R - Reviewer Identified

1 - Equipment is qualified

2 - Aging is less than life of plant with Licensee

Indicating periodic replacement

REVIEWER MAH... DATE 12/1/80

AP 6-22

[illegible]

Code:

- B - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or R - Indicates the item is Not Applicable
- DL - Indicates the item is Unresolved, Licensee Identified
- P - Proprietary
- L - Licensee Identified
- R - Reviewer Identified
- i - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER A. E. Galt DATE 12/2/80



# Facility North Anna System Sampling

ATTACHMENT 1  
FOR IEB 79-01B  
TER

PAGE 1 OF 2

UES. Page No.	Equip. I. D.	Generic Name	Accid. Profile	Qual. Profile	Radiation (Qual.)		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
356	100A	SV	✓	✓	6	---	6	6	---	---	---	---	---	---
357	100B	SV	✓	6	---	6	6	---	---	---	---	---	---	---
358	101A	SV	✓	✓	6	---	6	6	---	---	---	---	R	6
359	101B	SV	✓	6	---	6	6	---	---	---	---	---	R	6
360	102A	SV	✓	✓	6	---	6	6	---	---	---	---	R	6
361	102B	SV	✓	6	---	6	6	---	---	---	---	---	---	---
362	103A	SV	✓	✓	6	---	6	6	---	---	---	---	---	---
363	103B	SV	✓	6	---	6	6	---	---	---	---	---	R	6
364	104A	SV	✓	6	6	---	6	6	---	---	---	---	R	6
365	104B	SV	✓	6	---	6	6	---	---	---	---	---	R	6
366	106A	SV	✓	6	---	6	6	---	---	---	---	---	---	---
367	106B	SV	✓	6	---	6	6	---	---	---	---	---	R	6

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EQB for resolution

B - Indicates the item is below the flood level

✓ or S - Indicates the item is satisfactory

- or R - Indicates the item is not applicable

UB - Indicates the item is unresolved, Licensee identified

P - Proprietary

L - Licensee identified

R - Reviewer identified

1 - Equipment is qualified

2 - Aging is less than life of plant with licensee

Indicating periodic replacement

REVIEWER M.A. Quinn DATE 12/2/83

SYSTEM Sampling

ATTACHMENT 1  
FOR FEB 79-01B  
TER

PAGE 2 OF 2

[illegible]

Code:

- B - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or N - Indicates the item is Not Applicable
- DI - Indicates the item is Unresolved, licensee identified
- F - Proprietary
- L - Licensee identified
- R - Reviewer identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER M. O. Hunt DATE 12/2/80

# Facility North Anna System Service Water

ATTACHMENT 1  
FOR IEB 79-01B  
TIR

PAGE 1 OF 11

IEB Page No.	Equip. I.D.	Generic Name	Accid. Profile	Qual. Profile	Radiation (Qual. Contaminant)		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
372	P-5	MTR									yes		L	3
373	P-6	MTR									yes		L	3
374	P-7	MTR									yes		L	3
375	P-8	MTR									yes		L	3
376	101A	MOV	✓	4C	—	4C	4C	—	—	—	—	—	L	4C
377	101B	MOV	✓	4C	—	4C	4C	—	—	—	—	—	L	4C
378	101C	MOV	✓	4C	—	4C	4C	—	—	—	—	—	L	4C
379	101D	MOV	✓	4C	—	4C	4C	—	—	—	—	—	L	4C
380	103A	MOV	✓	V	—	V	V	—	—	—	—	—	—	1
381	103B	MOV	✓	V	—	V	V	—	—	—	—	—	—	1
382	103C	MOV	✓	V	—	V	V	—	—	—	—	—	—	1
383	103D	MOV	✓	V	—	V	V	—	—	—	—	—	—	1

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EIB for resolution

B - Indicates the item is below the flood level

or 6 - Indicates the item is Satisfactory

- or R - Indicates the item is Not Applicable

Un - Indicates the item is Unresolved, Licensee Identified

P - Proprietary

L - Licensee Identified

R - Reviewer Identified

1 - Equipment to qualified

2 - Aging is less than life of plant with Licensee

indicating periodic replacement

REVIEWER MDH DATE 12/1/83

# Facility North Anna System Service Order

AVIATION 1  
FOR FEB 79-01B  
TER

PAGE 2 OF 4

CES Page No.	Equip. I. D.	Generic Name	Accid. Profile	Qual. Profile	Radiation Contamination		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
384	104A	MOV	✓	✓		✓								1
385	104B	MOV	✓											1
386	104C	MOV	✓											1
387	104D	MOV	✓			✓	✓							1
388	105A	MOV	✓	4C		✓	4C						L	4C
389	105B	MOV	✓	4C		✓	4C						L	4C
390	105C	MOV	✓	4C		✓	4C						L	4C
	105D	MOV	✓	4C		✓	4C						L	4C
392	106A	MOV	✓	4C		✓	4C						L	4C
393	106B	MOV	✓	4C		✓	4C						L	4C
394	108A	MOV	✓	✓		✓	✓							1
395	108B	MOV	✓	4C		✓	4C						L	4C

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EOP for resolution

B - Indicates the item is below the flood level

or S - Indicates the item is Satisfactory

- or N - Indicates the item is Not Applicable

UL - Indicates the item is Unresolved, Licensee Identified

P - Proprietary

L - Licensee Identified

R - Reviewer Identified

1 - Equipment is qualified

2 - Aging is less than life of plant with Licensee

Indicating periodic replacement

REVIEWER 11/11/80 DATE 12/2/80

Facility Norfolk Annex 1  
System Service Water

Attachment 1  
FOR IER 79-01B  
TER

PAGE 3 OF 4

CBS Page No.	Equip. I. D. #	Generic Name	Accid. Profile	Qual. Profile	Radiation Qual. Containment		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
396	113A	M2V	✓	4C	✓	✓	4C	—	—	—	—	—	L	4C
397	113B	M2V	✓	✓	—	✓	✓	—	—	—	—	—	—	1
397a	101A1	SV	✓	6	—	6	6	—	—	—	—	—	R	6
397b	101A2	SV	✓	6	—	6	6	—	—	—	—	—	R	6
397c	101A3	SV	✓	6	—	6	6	—	—	—	—	—	R	6
397d	101A4	SV	✓	6	—	6	6	—	—	—	—	—	R	6
397e	111A	M2V	✓	4C	—	4C	4C	—	—	—	—	—	L	4C
397f	114B	M2V	✓	4C	—	4C	4C	—	—	—	—	—	L	4C
397g	110A	M2V	✓	4C	—	4C	4C	—	—	—	—	—	L	4C
397h	110B	M2V	✓	4C	—	4C	4C	—	—	—	—	—	—	6
397i	210A	M2V	✓	4C	—	4C	4C	—	—	—	—	—	—	6
397j	210B	M2V	✓	4C	—	4C	4C	—	—	—	—	—	—	6

8 - Indicated the item is below the flood level  
3 - Equipment requires modification (resolution, shielding, etc.)  
✓ or 5 - Indicated the item is satisfactory  
4 - Qualification of equipment unresolved  
- or R - Indicated the item is not applicable  
a) Testing schedule but not complete  
b) Reviewer needs additional information  
bL - Indicated the item is unresolved, licensee identified  
c) Qual. Record search still in process  
P - Proprietary  
L - Licensee identified  
R - Reviewer identified  
1 - Equipment is qualified  
2 - Aging is less than life of plant with licensee  
Indicating periodic replacement  
5 - Equipment not qualified  
6 - Item identified to IQR for resolution

REVIEWER HPH DATE 12/2/01



[illegible]

Code:

- B - Indicates the item is below the flood level
- ✓ or S - Indicates the item is Satisfactory
- or N - Indicates the item is Not Applicable
- U - Indicates the item is Unresolved, licensee identified
- P - Proprietary
- L - Licensee Identified
- R - Reviewer Identified
- 1 - Equipment is qualified
- 2 - Aging is less than life of plant with licensee indicating periodic replacement

- 3 - Equipment requires modification (resolution, shielding, etc.)
- 4 - Qualification of equipment unresolved
  - a) Testing schedule but not complete
  - b) Reviewer needs additional information
  - c) Qual. Record search still in process
- 5 - Equipment not qualified
- 6 - Item identified to EQB for resolution

REVIEWER W. J. [illegible] DATE 1/2/51

DATE: Nov/14/2021

SYSTEM: STA GEN ELEC 1500

ATTACHMENT 1  
FOR IIR 79-01B  
TER

PAGE 1 OF 1

CES Page No.	Equip. I. B.	Generic Name	Accid. Profile	Qual. Profile	Radiation Containment		Qual. Method	Chem. Spray	Accur.	Subm.	License Action		Outstanding Items Identified by	Category of Items
					Inside	Outside					Replace	Relocate		
398	100A	SV									yes		L	3
399	100B	SV									yes		L	3
400	100C	SV									yes		L	3
401	100D	SV	✓								-		L	3
402	100E	SV									yes		L	3
403	100F	SV	✓								-		L	3
404	100G	SV	✓								-		L	3
405	100H	SV	✓								-		L	3
406	100J	SV	✓								-		L	3

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EQB for resolution

B - Indicates the item is below the flood level

✓ or S - Indicates the item is satisfactory

- or R - Indicates the item is not applicable

BL - Indicates the item is unresolved, Licensee Identified

P - Proprietary

L - Licensee Identified

R - Reviewer Identified

1 - Equipment is qualified

2 - Aging is less than life of plant with Licensee indicating periodic replacement

REVIEWER: M. K. Chaudhary DATE: 12/14/21

ATTACHMENT 2  
FUNCTIONS/SYSTEMS LIST  
(W) PWR  
Needed For Mitigation Of Consequences  
Of LOCA Or MSLB

- X 1. Reactor Protection
- \* 2. Safeguards Actuation
- \* 3. Containment Isolation
- ✓ 4. Main and Auxiliary Steam Isolation
- ✓ 5. Main and Auxiliary Feedwater Isolation
- ✓ 6. Feedwater Control
- ✓ 7. Containment Spray
- ✓ 8. Containment Air Purification/Cleanup
- ✓ 9. Containment Ventilation/Cooling
- ✓ 10. Containment Combustible Gas Control
- ✓ 11. High Pressure Injection
- 12. Low Pressure Injection
- \* 13. Accumulators
- \* 14. Residual Heat Removal
- ✓ 15. Chemical and Volume Control
- \* 16. Pressurizer Spray
- \* 17. Power Operated Relief Valves
- \* 18. Steam Dump
- ✓ 19. Containment Radiation/Monitoring
- ✓ 20. Containment Radiation/Sampling
- ✓ 21. Component Cooling Water
- ✓ 22. Service Water
- ✓ 23. Emergency Power
- \* 24. Containment Sump
- ✓ 25. Control Room Habitability
- ✓ 26. Safety Equipment Area Ventilation
- ✓ 27. Auxiliary Feedwater
- ✓ 28. Reactor Coolant
- ✓ 29. Air Removal To Containment
- ✓ 30. Containment Vacuum Control
- ✓ 31. Inertment Air
- ✓ 32. Steam Generator Blowdown

SECTION 5

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75. Learn, J.A., Boston Insulated Wire and Cable Company, to Kelly, P., Stone & Webster Engineering Corporation, subject: NUKAG-0588, Environmental Qualification, North Anna Unit 2, P.O. NA-1265, dated July 25, 1980.
76. Boston Insulated Wire and Cable Company, Autoclave Test: North Anna-LOCA Conditions, Test No. 8714, January 14, 1974.
77. Limitorque Corporation, Limitorque Valve Actuators for SWR Service, Nuclear Power Station Qualification Type Test Report, Project No. 600376A, May 13, 1976.
78. Philadelphia Gear Corporation, for Limitorque Corporation, Test of Limitorque Valve Operator to Meet General

79. Franklin Institute Research Laboratory, Qualification Test of Limitorque Valve Actuator in a Steam Environment, Final Report F-C3271, February 1972.
80. Drab, J.B., Limitorque Corporation, to Reilly, P., Stone & Webster Engineering Corporation, subject: Qualification Information, North Anna Power Plant Unit 2, VAPCO P.O. 43469-Limitorque O/N 3F1046, dated September 19, 1980.
81. Drab, J.B., Limitorque Corporation, to Reilly, P., Stone & Webster Engineering Corporation, subject: Qualification Information, North Anna Power Station Unit 2, VAPCO P.O. 43469 - Limitorque O/N 3F1046, dated October 21, 1980.
82. Drab, J.B., Limitorque Corporation, to Reilly, P., Stone & Webster Engineering Corporation, subject: Qualification Information, North Anna Power Station Unit 1, VAPCO P.O. 43469 - Limitorque O/N 3F2144, dated October 22, 1980.



## Attachment 4

## OUTSTANDING ITEMS

As Identified By

Licensee North Anne 1

C E S Page No.	ITEM (See Code)	DISPOSITION				Disposition Schedule, Notes
		Replace	Modify	Ongoing Analysis	Other	
1	SV	✓				1
2	SV	✓				1
12	MOV			✓		2
13	MTR			✓		2
14	MTR			✓		2
15	MTR			✓		2
19	MOV			✓		2
20	MOV			✓		2
21	MOV			✓		2
22	MOV			✓		2
26	MOV			✓		2
27	MOV			✓		2
41	SV	✓				1
42	SV	✓				1
43	SV	✓				1
44	SV	✓				1
47a	SV	✓				1

## Attachment 4

## OUTSTANDING ITEMS

As Identified By

Licensee *North Anna 1*

C E S Page No.	ITEM (See Code)	DISPOSITION				Disposition Schedule, Notes
		Replace	Modify	Ongoing Analysis	Other	
476	SV	✓				1
476	SV	✓				1
130	SG			✓		2
132	TRANSFORMER			✓		2
133	SV	✓				1
134	SV	✓				1
135	SV	✓				1
136	SV	✓				1
138	SV	✓				1
140	SV	✓				1
142	SV	✓				1
143	SV	✓				1
144	SV	✓				1
145	SV	✓				1
146	SV	✓				1
147	SV	✓				1
148	SV	✓				1

## Attachment 4

## OUTSTANDING ITEMS

As Identified By

Licensee *North Anne 1*

C E S Page No.	ITEM (See Code)	DISPOSITION				Disposition Schedule, Notes
		Replace	Modify	Ongoing Analysis	Other	
149	SV	✓				1
150	SV	✓				1
151	SV	✓				1
160	SV	✓				1
161	SV	✓				1
162	SV	✓				1
163	SV	✓				1
164	SV	✓				1
165	SV	✓				1
166	SV	✓				1
167	SV	✓				1
168	SV	✓				1
169	SV	✓				1
170	SV	✓				1
171	SV	✓				1
172	SV	✓				1
189	MTR			✓		2

## Attachment 4

## OUTSTANDING ITEMS

As Identified By

Licensee North Anna 1

C E S Page No.	ITEM (See Code)	DISPOSITION				Disposition Schedule, Notes
		Replace	Modify	Ongoing Analysis	Other	
190	MTR			✓		1
191	MTR			✓		1
192	MOD	✓				1
193	MOD	✓				1
194	MOD	✓				1
195	TS		✓			1
196	MTR	✓				1
197	MTR	✓				1
1972	SV	✓				1
1976	SV	✓				1
200	H <sub>2</sub> A	✓				1
201	H <sub>2</sub> A	✓				1
206	LIT	✓				1
207	LIT	✓				1
216	SV	✓				1
217	SV	✓				1
218	SV	✓				1

## Attachment 4

## OUTSTANDING ITEMS

As Identified By

Licensee *North Anna 1*

C E S Page No.	ITEM (See Code)	DISPOSITION				Disposition Schedule, Notes
		Replace	Modify	Ongoing Analysis	Other	
219	SV	✓				1
220		✓				
221		✓				
222		✓				
223		✓				
224		✓				
225		✓				
226		✓				
227	✓	✓				
228	FT	✓				
229	FT	✓				
230	FT	✓				
231	FT	✓				
232	FT	✓				
233	FT	✓				
234	PT	✓				
235	PT	✓				✓



## Attachment 4

## OUTSTANDING ITEMS

As Identified By

Licensee *NORTH AVON*

C E S Page No.	ITEM (See Code)	DISPOSITION				Disposition Schedule, Notes
		Replace	Modify	Ongoing Analysis	Other	
236	PT	✓				1
237		✓				
238		✓				
239		✓				
240		✓				
241		✓				
242	↓	✓				
243	SV	✓				
244	SV	✓				
245		✓				
246		✓				
247		✓				
248		✓				
249		✓				
250		✓				
251		✓				
252	✓	✓				✓

## Attachment 4

## OUTSTANDING ITEMS

As Identified By

Licensee

North Anna 1

C E S Page No.	ITEM (See Code)	DISPOSITION				Disposition Schedule, Notes
		Replace	Modify	Ongoing Analysis	Other	
253	SV	✓				1
254		✓				
255		✓				
256		✓				
257		✓				
258		✓				
259		✓				
260		✓				
261		✓				
<del>261a</del>		<del>✓</del>				
<del>262</del>		<del>✓</del>				
263	V	✓				✓
264	MTR			✓		2
265	MTR			✓		2
270	SV	✓				1
274	SV	✓				1
<del>280</del>	<del>SV</del>	<del>✓</del>				<del>1</del>
<del>281</del>	<del>SV</del>	<del>✓</del>				<del>1</del>
2822	MOV			✓		2

## Attachment 4

## OUTSTANDING ITEMS

As Identified By

Licensee North Anna 1

C E S Page No.	ITEM (See Code)	DISPOSITION				Disposition Schedule, Notes
		Replace	Modify	Ongoing Analysis	Other	
283	LT	✓				1
293	LT	✓				1
294	LT	✓				
295	LT	✓				
296	PT	✓				
297	PT	✓				
298	PT	✓				
299	SV	✓				✓
319	MOV			✓		2
341	MOV			✓		2
342	MOV			✓		2
343	MOV			✓		2
344	MOV			✓		2
345	SV	✓				1
346	SV	✓				1
347	SV	✓				
348	SV	✓				✓

## Attachment 4

## OUTSTANDING ITEMS

As Identified By

Licensee North Anne 1

C E S Page No.	ITEM (See Code)	DISPOSITION				Disposition Schedule, Notes
		Replace	Modify	Ongoing Analysis	Other	
349	SV	✓				1
350	SV	✓				
352	SV	✓				
353	SV	✓				
354	SV	✓				
372	MTR	✓				
373	MTR	✓				
374	MTR	✓				
375	MTR	✓				✓
376	MOV					2
377				✓		
378				✓		
379				✓		
388				✓		
389				✓		
390				✓		
391	✓			✓		✓

## Attachment 4

## OUTSTANDING ITEMS

As Identified By

Licensee *North Anna 1*

C E S Page No.	ITEM (See Code)	DISPOSITION				Disposition Schedule, Notes
		Replace	Modify	Ongoing Analysis	Other	
392	MOV			✓		2
393				✓		
395				✓		
396				✓		
397c				✓		
397f				✓		
397g				✓		
397h				✓		
397i				✓		
397j				✓		
397k				✓		
397m	✓			✓		✓
398	SV	✓				1
400	SV	✓				1
402	SV	✓				1



North Anna 1

Attachment 4 Notes

1. Item to be replaced; licensee identified; disposition schedule is identified on specific CES or Section 6, "Conclusion", and the Response to Supplement 2, 79-01B "Section 7", of the report.
2. Testing scheduled but not complete, or qualification record search is still in progress; licensee identified.

CODES:

SV - Solenoid Valve  
MOV - Motor Operated Valve  
MTR - Motor  
FT - Flow Transmitter  
MCC - Motor Control Center  
EPA - Electrical Penetration Assembly  
CBL - Cable  
LT - Level Transmitter  
TE - Temperature Element  
PT - Pressure Transmitter  
T&C - Terminations and Connectors  
SG - Switchgear  
STRN - Air Conditioning Self-Cleaning Strainers  
MOD - Motor Operated Damper  
H<sub>2</sub>RC - Hydrogen Recombiner  
H<sub>2</sub>A - Hydrogen Analyzer  
LIT - Level Indicating Transmitter

Cib. Loge No.	Equip. I. D.	Generic Name	Field Profile	Grade Profile	Boat Log Amount		Goals Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Item Identified by	Category of Item
					Inside	Outside					Replace	Relocate		
48	Spec 21	EPA	L	L	L	L	4/3	L	L	L	L	L	R	46
49	Spec 21	EPA	L	L	L	L	4/3	L	L	L	L	L	R	46
50	Spec 21	EPA	L	L	L	L	4/3	L	L	L	L	L	R	46
51	Spec 21	EPA	L	L	L	L	4/3	L	L	L	L	L	R	46
52	Spec 21	EPA	L	L	L	L	4/3	L	L	L	L	L	R	46
53	Spec 21	EPA	L	L	L	L	4/3	L	L	L	L	L	R	46
54	Spec 21	EPA	L	L	L	L	4/3	L	L	L	L	L	R	46
55	Spec 21	EPA	L	L	L	L	4/3	L	L	L	L	L	R	46
56	Spec 21	EPA	L	L	L	L	4/3	L	L	L	L	L	R	46
57	Spec 21	EPA	L	L	L	L	4/3	L	L	L	L	L	R	46
58	Spec 21	EPA	L	L	L	L	4/3	L	L	L	L	L	R	46
59	Spec 21	EPA	L	L	L	L	4/3	L	L	L	L	L	R	46

3) - Equipment requires modification (revolution, shelling, etc.)

4. Qualification of equipment involved:
  - a) Testing schedule but not complete
  - b) Feedback needs additional information
  - c) Goal, Record search still in process
5. Equipment not qualified:
  - a) Item identified to look for resolution

If  $\alpha$  indicates the item is below the flood level

or is - indication the item is satisfactory  
- on M - indicates the item is not satisfactory

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

1000  
900  
800  
700  
600  
500  
400  
300  
200  
100  
0

[illegible]W. R. V. Lee, *University of York*

$\mathbf{I} = \mathbf{I}_1 + \mathbf{I}_2 + \mathbf{I}_3 + \mathbf{I}_4 + \mathbf{I}_5 + \mathbf{I}_6 + \mathbf{I}_7 + \mathbf{I}_8 + \mathbf{I}_9 + \mathbf{I}_{10}$

[illegible][illegible]

REVIEWER *W. G. Land* DATE *12/1/88*

12

Class Tag No.	Equip I.D. #	Invent #	Qual. Profile	Qual. Profile	Inspection Code		Qual. Method	Chem. Spray	Accom.	Subm.	Licensee Action		Outstanding Item Identified by	Category of Item
					Inside	Outside					Replace	Relocate		
83	Spec # 116A	NGA 16 C36/c	✓	✓		✓	✓	✓	-	-	-	-	R	✓
84	Spec # 116A	NGA 17 C36/c	✓	✓		✓	✓	✓	-	-	-	-	R	✓
85	Spec # 116A	NGA 18 C36/c	✓	✓		✓	✓	✓	-	-	-	-	R	✓
86	Spec # 116A	NGA 19 C36/c	✓	✓		✓	✓	✓	-	-	-	-	R	✓
87	Spec # 120	NGA 17 C36/c	✓	✓	✓	✓	✓	✓	-	-	-	-	R	✓
88	Spec # 120	NGA 34 C36/c	✓	✓	✓	✓	✓	✓	-	-	-	-	R	✓
89	Spec # 120	NGA 35 C36/c	✓	✓	✓	✓	✓	✓	-	-	-	-	R	✓
90	Spec # 120	NGA 36 C36/c	✓	✓	✓	✓	✓	✓	-	-	-	-	R	✓
91	Spec # 120	NGA 37 C36/c	✓	✓	✓	✓	✓	✓	-	-	-	-	R	✓
92	Spec # 120	NGA 38 C36/c	✓	✓	✓	✓	✓	✓	-	-	-	-	R	✓
93	Spec # 120	NGA 39 C36/c	✓	✓	✓	✓	✓	✓	-	-	-	-	R	✓
94	Spec # 120	NGA 40 C36/c	✓	✓	✓	✓	✓	✓	-	-	-	-	R	✓

3 - Equipment requires modification (resolution, shielding, etc.)  
 4 - (Qualification of equipment unresolved)  
 a) Testing schedule but not complete  
 b) Reviewer needs additional information  
 c) Qual. Record search still in process  
 5 - Equipment not qualified  
 6 - Item identified to IJB for resolution

CLASSIFICATION DATA  
 CLASSIFICATION 51-11-1000

REVIEWED BY gsk DATE 12/1/80

8 - Indicates the item is below the cloud level  
 9 - Indicates the item is satisfactory  
 10 - Indicates the item is not applicable  
 11 - Indicates the item is unresolved, licensee identified  
 12 - Proprietary  
 13 - Licensee identified  
 14 - Reviewer identified  
 15 - Equipment is qualified  
 16 - Equipment is below the cloud level  
 17 - Indicates periodic replacement

B

10000 North DOWNS  
SOUTH COUNTY ELEC EQUIP

5-10-64  
4-15-64  
11-6

C.E. Page No.	Equip. I. E. #	Com. Lb. base	W. Lb. Profile	Qual. Profile	Project Information		Qual. Method	Chem. Spray	Accur.	Subm.	License Action		Outstanding Item Identified by	Category of Item
					Inade	Variable					Replace	Relocate		
95	Spec # 120 NGA-44	Cable	✓	✓	✓	✓	✓	✓	-	-	-	-	R	144
96	Spec # 120 NGA-45	Cable	✓	✓	✓	✓	✓	✓	-	-	-	-	R	144
97	Spec # 120 NGA-47	Cable	✓	✓	✓	✓	✓	✓	-	-	-	-	R	144
98	Spec # 120 NGA-49	Cable	✓	✓	✓	✓	✓	✓	-	-	-	-	R	144
99	Spec # 120 NGA-57		✓	✓	✓	✓	✓	✓	-	-	-	-	R	144
100	Spec # 120 NGA-77		✓	✓	✓	✓	✓	✓	-	-	-	-	R	144
101	Spec # 120 NGA-43		✓	✓	✓	✓	✓	✓	-	-	-	-	R	144
1013	Spec # 120 NGA-44		✓	✓	✓	✓	✓	✓	-	-	-	-	R	144
1016	Spec # 120 NGA-45		✓	✓	✓	✓	✓	✓	-	-	-	-	R	144
102	Spec # 120 NGA-15		✓	✓	✓	✓	✓	✓	-	-	-	-	R	144
103	Spec # 120 NGA-47		✓	✓	✓	✓	✓	✓	-	-	-	-	R	144
104	Spec # 120 NGA-48		✓	✓	✓	✓	✓	✓	-	-	-	-	R	144

- 1 - Equipment requires modification (resolution, shielding, etc.)  
2 - Qualification of equipment unresolved  
3 - Testing schedule not complete  
4 - Equipment needs additional information  
5 - Qual. Record search still in process  
6 - Equipment not qualified  
7 - Item identified to EQB for resolution

REVIEWER: W. J. [Signature] DATE: 11-6-64

Northwood  
Engineering

3-10-00264-1  
Date: 11-17-79-010  
11R

V.L. Page No.	Equip. I.D. #	Schematic Name	Qual. Profile	Qual. Profile	Weight with Hood		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Item Identified by	Category of Item
					Inside	Outside					Replace	Relocate		
105	Spec # 128 N6A69	Cable	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	4K1
106	Spec # 128 N6A70	Cable	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	4K1
107	Spec # 128 N6A75	Cable	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	4K1
108	Spec # 128 N6A39	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	4K1
109	Spec # 128 N6A40	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	4K1
110	Spec # 128 N6A55	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	4K1
111	Spec # 128 N6A3	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	4K1
112	Spec # 128 N6A4	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	4K1
113	Spec # 128 N6A13	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	4K1
114	Spec # 128 N6A14	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	4K1
115	Spec # 128 N6A15	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	4K1
116	Spec # 128 N6A17	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	✓	4K1

3 - Equipment requires modification (resolution, shielding, etc.)  
4 - Qualification of equipment unresolved  
a) Testing schedule but not complete  
b) Reviewer needs additional information  
c) Qual. Record search still in process  
5 - Equipment not qualified  
6 - Item identified to EQB for resolution

5 - Indicates the item is below the flood level  
or 5 - Indicates the item is satisfactory  
or 6 - Indicates the item is not applicable  
or 11 - Indicates the item is unresolved, Licensee Identified  
P - Proprietary  
L - Licensee Identified  
B - Reviewer Identified  
1 - Equipment is qualified  
2 - Equip. is less than life of plant with Licensee  
working period replacement



NEWARK NORTH HAVEN

RECEIVED 11/10/79-01A  
THE

U.S. Page No.	Type, I. B. #	Source Item	Actual Profile	Qual. Profile	Earliest Use Date		Qual. Method	Chem. Spray	Accur.	Subm.	Licensee Action		Outstanding Item Identified by	Category of Item
					Inside	Outside					Replace	Relocate		
117	Spec # 429	Cable	✓	✓	✓	✓	4/8	✓	—	—	—	—	R	4/8
118	Spec # 429	USG 12	✓	✓	✓	✓	4/8	✓	—	—	—	—	R	4/8
119	Spec # 430	USG 47	✓	✓	✓	✓	4/8	✓	—	—	—	—	R	4/8
120	Spec # 430	USG 48	✓	✓	✓	✓	4/8	✓	—	—	—	—	R	4/8
121	Spec # 430	USG 70	✓	✓	✓	✓	4/8	✓	—	—	—	—	R	4/8
122	Spec # 430	USG 35	✓	✓	✓	✓	4/8	✓	—	—	—	—	R	4/8
123	Spec # 430	USG 37	✓	✓	✓	✓	4/8	✓	—	—	—	—	R	4/8
124	Spec # 431	USG 01	✓	✓	✓	✓	4/8	✓	—	—	—	—	R	4/8
125	MC 19	McC	✓	✓	✓	✓	✓	—	—	—	—	—	—	—
126	MC 20	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—	—
127	MC 21	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—	—
128	MC 22	✓	✓	✓	✓	✓	✓	—	—	—	—	—	—	—

3 - Equipment requires modification (resolution, shielding, etc.)

4 - Qualification of equipment unresolved

a) Testing schedule but not complete

b) Reviewer needs additional information

c) Qual. Record search still in process

5 - Equipment not qualified

6 - Item identified to EOP for resolution

1 - Indicated the item is below the flood level

2 - Indicated the item is satisfactory

3 - Indicated the item is not applicable

4 - Indicated the item is unresolved, Licensee Identified

5 - Proprietary

6 - Licensee Identified

7 - Reviewer Identified

8 - Equipment is qualified

9 - Aging is less than life of plant with licensee indicating periodic replacement

REVIEWER: M. Shumate DATE: 12/1/80





18

(

North Point  
Component Cooling

3-100-000-01  
Feb 11th 79-01B  
TTR

Circuit Page No.	Equip. I.D.	Access to Name	As ID Profile	Good Profile	Faulted Equipment		Qual. Method	Comm. Display	Accur.	Subm.	Licensee Action		Outstanding Items Identified by	Category of Items
					In-Id	Out-Id					Replace	Relocate		
1415	103B	SV									yes		L	3
1416	104A-1	SV									yes		L	3
1417	104A-2	SV									yes		L	3
1418	104F-1	SV									yes		L	3
1419	104B-2	SV									yes		L	3
150	104C-1	SV									yes		L	3
151	104C-2	SV									yes		L	3
152	105A	SV					145	6	-		-		R	3
153	105B	SV					145	6	-		-		R	40
154	105C	SV					145	6	-		-		R	40

pg 621

pg 621  
pg 621  
pg 621

- 1 - Equipment requires modification (resolution, shielding, etc.)
- 2 - Qualification of equipment unresolved
- 3 - Testing schedule but not complete
- 4 - Reviewer needs additional information
- 5 - Qual. Record search still in process
- 6 - Equipment not qualified
- 7 - Item identified to IQR for resolution

- B - Indicates the item is below the flood level
- S - Indicates the item is satisfactory
- on R - Indicates the item is not applicable
- RE - Indicates the item is unresolved, licensee identified
- 1 - Proprietary
- 2 - Licensee identified
- 3 - Reviewer identified
- 4 - Equipment is qualified
- 5 - Equipment is less than life of plant with licensee indicating periodic replacement

REVIEWER *W.E. Huns* DATE 12/1/80

121 / 101

17. 6. 1911

3. Equipment requires modification (resolution, shielding, etc.)
4. Qualification of equipment unresolved
5. Testing schedule but not complete
6. Reviewer needs additional information
7. Test Record month still in progress
8. Equipment not qualified
9. Item identified to RHP for resolution

R - Indicates the item is below the flood level  
 or S - Indicates the item is satisfactory  
 or K - Indicates the item is not applicable  
 th - Indicates the item is threatened, item is identified  
 P - Proprietary  
 I - Item is identified  
 R - Referred identified  
 I - Equipment is qualified  
 ? - Aging to less than life of plant with life span  
 indicating periodic replacement

REVIEWED *Attestant* DATE *12/1/88*



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PAGE 1 of 4

Log No.	Tag No.	Loc.	Ident.	Serial	Prod. Yr.	Prod. Mth.	Condition		Chm. Spray	Accur.	Sizing	License Action		Outstanding Items Identified by	Category of Items
							Inside	Outside				Replace	Relocate		
313	P	01A	MTR	✓			✓	✓	-	-	-	-	-	-	✓
314	P	01B	MTR	✓			✓	✓	-	-	-	-	-	-	✓
315		1943	FT												
316		1943	FT												
317		1267A	MOV	✓			✓	✓	-	-	-	-	-	✓	✓
318		1267B	MOV	✓			✓	✓	-	-	-	-	-	✓	✓
319		1269A	MOV	✓			✓	4C	-	-	-	-	-	✓	4C
320		1269F	MOV	✓			✓	✓	-	-	-	-	-	✓	✓
321		1270A	MOV	✓			✓	✓	-	-	-	-	-	✓	✓
322		1270B	MOV	✓			✓	✓	-	-	-	-	-	✓	✓
323		1836	MOV	✓			✓	✓	-	-	-	-	-	✓	✓
324		1860A	MOV	✓			✓	✓	-	-	-	-	-	✓	✓

1 - Equipment requires modification (resolution, shielding, etc.)

2 - Condition of equipment unresolved

3 - Testing scheduled but not complete

4 - Reviewer needs additional information

5 - Qual. Record needs still in process

6 - Equipment not qualified

7 - Item identified to log for resolution

P - Indicates the item is below the field level

or S - Indicates the item is satisfactory

or B - Indicates the item is not applicable

OR - Indicates the item is Out of Service, License Identified

P - Proprietary

L - License Identification

R - Reviewer Identified

I - Equipment is qualified

2 - Tagging is less than 10% of plant with license

Indicates tag for license replacement

REVIEWER: H. S. Ham / DATE: 12/2/80

REVISIONS: Rev 1  
 SYSTEM CHANGE: Rev 1

Approved by:  
 Date: 11/19/80

Code	Page No.	Equip. I.D.	Gen. base	Inst. Profile	Qual. Profile	Reaction, Qual. & condition		Qual. Method	Chm. Spray	Accur.	Solub.	License Action		Outstanding Items Identified by	Category of Items
						In-Use	Out-Use					Replace	Relocate		
60		Connec- 7001	TB	✓	✓	✓	—	✓	✓	—	—	—	—	R	144
61		WCSF 11	Splining MTR	✓	✓	✓	—	✓	✓	—	—	—	—	R	144
62		ACONX HVT	Splining MTR	✓	✓	✓	✓	✓	✓	—	—	—	—	—	1
63		4000C HVT	TAC	✓	✓	✓	✓	✓	—	—	—	—	—	R	144
64		4000C TMA	TB	✓	✓	✓	✓	✓	—	—	—	—	—	R	144
65		NSE 3 NCS 3 PSU	TB	✓	✓	✓	✓	✓	—	—	—	—	—	R	144
66		Therm NCS 3	TB	✓	✓	✓	✓	✓	—	—	—	—	—	R	144
67		GEN Flet	TB	✓	✓	✓	✓	✓	—	—	—	—	—	R	144
68		Spec NCS 3	TB	✓	✓	✓	✓	✓	—	—	—	—	—	R	144
69		Spec NCS 4	Cable	✓	✓	✓	✓	✓	—	—	—	—	—	R	144
70		Spec NCS 5	Cable	✓	✓	✓	✓	✓	—	—	—	—	—	R	144

8 - Indicates the item is below the flood level  
 9 - Indicates the item is satisfactory  
 10 - Indicates the item is not applicable  
 11 - Indicates the item is unresolved, Licensee Identified  
 12 - Projectary  
 13 - Licensee Identified  
 14 - Reviewer Identified  
 15 - Equipment is qualified  
 16 - Aging is less than life of plant with Licensee  
 17 - Indicating periodic replacement

REVIEWER: *M. J. J. J.*  
 DATE: 12/1/80

