

**USI A-46 RELAY EVALUATION REPORT
FOR MILLSTONE UNIT 2**

IN RESPONSE TO:

NRC GENERIC LETTER 87-02/USI A-46

**VERIFICATION OF SEISMIC ADEQUACY OF MECHANICAL AND ELECTRICAL
EQUIPMENT IN OPERATING REACTORS**

PREPARED FOR:

**NORTHEAST NUCLEAR ENERGY COMPANY
P.O. BOX 128
WATERFORD, CT 06385-0128**

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**USI A-46 RELAY EVALUATION REPORT
FOR MILLSTONE UNIT 2**

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**USI A-46 RELAY EVALUATION REPORT
FOR MILLSTONE UNIT 2**

1.0 INTRODUCTION

Seismic qualification of equipment in operating nuclear plants was identified as a potential safety concern in USNRC Unresolved Safety Issue (USI) A-46, "Seismic Qualification of Equipment in Operating Nuclear Power Plants". The specific NRC plan for demonstrating the seismic adequacy of equipment in operating nuclear plants is presented in NRC Generic Letter 87-02.

As part of the resolution of GL 87-02, it is necessary to perform a relay seismic functionality review. The purpose of this review is to determine if the plant's safe shutdown systems could be adversely affected by relay malfunction in the event of a Safe Shutdown Earthquake (SSE).

Basic technical guidance for this effort was obtained from the Generic Implementation Procedure (GIP) (ref. 5.1) and from the Electric Power Research Institute (EPRI) report EPRI NP-7148-SL (ref. 5.2). The terminology used in this report is the terminology used in the GIP. The methodology used to perform the relay evaluation is specified in VECTRA Project Instructions (refs. 5.3 and 5.4).

2.0 SCOPE/METHOD

The relay screening process begins with obtaining a list of electrically operating USI A-46 components that require relay reviews from the Safe Shutdown Equipment List (SSEL) database. This list must not only include equipment that must change position or start to perform a safe shutdown function, it also must consider equipment whose inadvertent actuation due to contact chatter may compromise a safe shutdown function or provide misleading indications in the Control Room. This list of equipment will be a subset of the SSEL obtained by sorting the database using the "Evaluation Required" field. Components coded BR, SR and R will be included on the relay review list. The relay review SSEL is included as Attachment A. The subsequent steps are described in the following paragraphs.

Identify and obtain the associated electrical schematics and/or any other applicable drawings that will be required to identify relays associated with the selected electrical component. Then, review the circuit to identify those portions of the circuit which will affect the operation of the component. In completing the process of identifying associated relays, it may be necessary to review other schematics which contain other relays and contacts which may affect the subject component.

Evaluate the associated relays for each electrically operated component. Identify contacts that are inherently rugged or solid state which are considered not vulnerable to contact chatter and mark an "NV" in the Satisfactory (SAT) column on the relay tabulation sheet. Also identify the normal and required states of the component as indicated on the Relay Review List, and consider the required state of the component for a safe shutdown. Screen those relays whose contact chatter are acceptable; that is, relay chatter does not result in an unacceptable consequence or prevent the affected system from carrying out its required function. These relays are identified with a "CA" in the SAT column. Determine, along with Systems Engineers and Plant Operations, if operator action is an acceptable way of screening out the relay and mark an "OA" in the SAT column. Add a note to the Relay Tabulation Sheets which will describe what operation action is to be taken (Note: currently no relays have been screened using Operator Action). Relays whose SAT column remains blank after this evaluation are classified as "essential" and will have their seismic capacity compared to their seismic demand.

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For essential relays, identify relay manufacturer, type and model number and also determine if the relay contact is normally open or normally closed, while de-energized, and if the relay coil is energized or not, by using the associated electrical schematics. Compare the essential relay's manufacturer, type and model number found with those identified in Appendix E of Document EPRI NP-7148-SL. Determine if there are any Seismically Sensitive Relays ("Low Ruggedness Relays").

Identify the main and control power supplies and electrical distribution equipment for active electrically operated components so that this equipment can be included on the SSEL. When Component relay reviews are complete, identify and highlight electrical distribution equipment on single line diagrams by tracing back from the electrical scheme power source to the preferred power supply.

Using the list of essential relays and associated data, the Seismic Capacity Engineers compare the capacity for the relays to the seismic demand. The methods used for this step are in accordance with the instructions of reference 5.4 which requires compliance with Section 6 of the GIP and the referenced EPRI relay reports.

The summaries of the seismic capacity evaluations are tabulated in Attachment F of this report. Detailed documentation of capacity versus demand comparisons are contained in Attachment H.

3.0 ASSUMPTIONS/LIMITATIONS

In accordance with the relay evaluation methodology outlined in the GIP (ref. 5.1) and in EPRI NP-7148-SL (ref. 5.2), the following assumptions were made.

1. Relays/contact devices will be exposed to a 30-second earthquake..
2. Relays/contact devices will not be permanently damaged, with the exception of two specific models; the GE IJD (non IE) and the English Electric YCG, as listed in Appendix E of EPRI NP-7148-SL (ref. 5.2).
3. "Chatter" is the inadvertent opening or closing of a contact with a sustained output of 2 milliseconds (ref. 5.2).
4. Relay/contact device failure modes are: a) contact chatter causes inadvertent and undesired equipment actuation, and b) contact chatter causes failure of equipment to actuate as described.

4.0 RESULTS

The results of various steps identified in section 2.0 are documented as attachments to this report. These results are presented in terms of individual contacts where each relay may have several associated contacts.

A total of 1682 contacts were identified as associated relays for Millstone Unit 2 and are listed in Attachment B. The relays are sorted by System, Equipment ID and Contact Device.

A total of 479 contacts were identified as essential relays for Millstone Unit 2 and are listed in Attachment C. The relays are sorted by System, Equipment ID and Contact Device.

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FOR MILLSTONE UNIT 2**

A total of 6 contacts were identified as seismically sensitive relays ("Low Ruggedness Relays") for Millstone Unit 2 and are listed in Attachment D. Note that these relays are "Low Ruggedness" ONLY if they are procured Non 1E.

All essential relays with known make and model and available capacities based on GERS or other acceptable methods were evaluated. The results of these comparisons are included as Attachment F.

Each unique relay make and model within a particular cabinet is documented on a Relay Functional Review Sheet; contacts with identical make and model are then summarized as acceptable without an individual Relay Functional Review Sheet for each contact (since the Relay Functional Review Sheet will be identical). The summary is included in Attachment F and the Relay Functional Review Sheets are included in Attachment H.

A listing and description of outliers is provided in Attachment G. Currently, these include the seismically sensitive relays listed in Attachment D and relays with unknown make and models or with unknown seismic capacities. Note that relays contained in cabinets with potential interaction concerns are not being tracked as outliers; cabinets/panels which house these relays are tracked as outliers in the seismic report.

The majority of the outliers are associated with the Medium Voltage Switchgears, which may be resolved by Operator Action. Discussions have been initiated with the MP2 operation department to evaluate the possibility of crediting Operator Action; preliminary assessments indicate that this may be acceptable. However, further reviews are required to determine if any procedural change is necessary. Other options are also available and further discussed in the comment section of the OSVS.

5.0 REFERENCES

- 5.1 "Generic Implementation Procedure (GIP) for Seismic Qualification of Nuclear Plant Equipment", Revision 2, Corrected February 1992.
- 5.2 EPRI NP-7148-SL, "Project 2925-8 Final Report", December, 1990 "Procedure for Evaluating Nuclear Power Plant Relay Seismic Functionality"
- 5.3 VECTRA (Formerly ABB Impell) Project Instruction 0240-099-002, "Identification of USI A-46 Safe Shutdown Equipment Relays", latest revision.
- 5.4 VECTRA (Formerly ABB Impell) Project Instruction 0240-099-005, "Verification of Seismic Adequacy of Mechanical and Electrical Equipment at Millstone 1 & 2 Plants", latest revision.
- 5.5 VECTRA (Formerly ABB Impell) Document No. 03-0240-1367, "Preferred Safe Shutdown Paths for Millstone 2.", Rev. 2
- 5.6 VECTRA (Formerly ABB Impell) Document No. 0240-099-003, "A-46 Relay Screening and Evaluation Relay Tabulation for Millstone Point Unit 2.", Rev. 1

USI A-46 RELAY EVALUATION REPORT
FOR MILLSTONE UNIT 2

ATTACHMENT A

MILLSTONE UNIT 2
RELAY REVIEW SAFE SHUTDOWN EQUIPMENT COMPONENT LIST

(22 Pages)

**USI A-46 RELAY EVALUATION REPORT
FOR MILLSTONE UNIT 2**

ATTACHMENT B

**MILLSTONE UNIT 2
USI A-46 RELAY SCREENING AND EVALUATION TABULATION
"ASSOCIATED RELAYS"**

(274 Pages)

System: CVCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 1

Equipment ID No. : 2-CH-192

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	43X			32009 SH. 53	C01R	CB	36'6"	CA
	# 63XA/LC227			32009 SH. 53	C02R	CB	36'6"	CA
	HS2192/O			32009 SH. 53	C02R	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

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System: RCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 2

Equipment ID No. : 2-CH-198

DATE 12/12/95
REV. 0

		ENERG							
Rev.	Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
1			33/AC/ZS198			32009 SH 30	LOCAL	EB	-5'6" NV
1			33/AC/ZS505			32009 SH 30	2-CH-505	EB	-5'6" NV
	GE-HFA	12HFA151A2H	43X			32009 SH 30	C02R	CB	36'6" CA
			# CIAS-K505A			39047 SH 9	RC02B	CB	36'6" CA
			# HS2505			32009 SH 30	C02	CB	36'6" NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

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System: CVCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 3

Equipment ID No. : 2-CH-210X

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
#	63X (Note 9)			32009 SH. 21	C02R	CB	36'6"	CA
	63X/FQIS-210X (Note 9)			32009 SH. 22	C05R	CB	36'6"	CA
	63XA/LC226 (Note 9)			32009 SH. 22	C02R	CB	36'6"	CA
#	94 (Note 9)			32009 SH. 22	C02R	CB	36'6"	CA
#	HS210			32009 SH. 22	C04	CB	36'6"	NV
#	HS2512			32009 SH. 21	C04	CB	36'6"	NV

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CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

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System: CVCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 4

Equipment ID No. : 2-CH-429

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32009 SH. 38	B6117	AB	14'6"	
	42/O			32009 SH. 38	B6117	AB	14'6"	
	HS2524			32009 SH. 38	C02	CB	36'6"	NV
	HS2524A			32009 SH. 38	C10	TB	54'6"	NV
	HS2524B			32009 SH. 38	C10	TB	54'6"	NV

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NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

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System: CVCS

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PAGE 5

Equipment ID No. : 2-CH-501

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32009 SH. 6	B5145	AB	14'6"	
	42/O			32009 SH. 6	B5145	AB	14'6"	
	43X			32009 SH. 6	C02R	CB	36'6"	CA
	43Y			32009 SH. 6	C02	CB	36'6"	CA
	# 63XA/LC227			32009 SH. 6	C02R	CB	36'6"	CA
	HS2501			32009 SH. 6	C02	CB	36'6"	NV
	HS2501A			32009 SH. 6	C02	CB	36'6"	NV
	LC-227			28500 SH. 227	LOCAL	AB	-25'0"	CA
	SIA51			32009 SH. 6	RC02B	CB	36'6"	CA

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CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

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Equipment ID No. : 2-CH-504

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MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32009 SH. 7	B5158	AB	14'6"	
	42/O			32009 SH. 7	B5158	AB	14'6"	CA
	42X			32009 SH. 7	C02	CB	36'6"	CA
	63XA-1/LC227			32009 SH. 7	C02R	CB	36'6"	CA
	HS2504			32009 SH. 7	C02	CB	36'6"	NV

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CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

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Equipment ID No. : 2-CH-505

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			33/AC/ZS198			32009 SH. 30	2-CH-198	EB	-5'6"	NV
1			33/AC/ZS505			32009 SH. 30	LOCAL	EB	-5'6"	NV
	GE-HFA	12HFA151A2H	43X			32009 SH. 30	C02R	CB	36'6"	CA
			# CIAS-K505A			39047 SH. 9	RC02B	CB	36'6"	CA
			# HS2505			32009 SH. 30	C02	CB	36'6"	NV

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* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

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CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

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Equipment ID No. : 2-CH-506

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			33/AC/ZS506			32009 SH. 31	LOCAL	RB	-3'6"	NV
			43X			32009 SH. 31	C02R	CB	36'6"	CA
			CIAS2			32009 SH. 31	RC02C	CB	36'6"	CA
			HS2506			32009 SH. 31	C02	CB	36'6"	NV

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SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

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USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 9

Equipment ID No. : 2-CH-507

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Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		HS2507			32009 SH 32	C02	CB	36'6"	NV

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CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

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MILLSTONE POINT UNIT 2
DOCUMENT NO. M72-RELAY.RPT - ASSOCIATED RELAYS

PAGE 10

Equipment ID No. : 2-CH-508

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			42-C/A	NO	NO	32009 SH. 8	B5151	AB	14'6"	CA
1			42-O/A	NO	NO	32009 SH. 8	B5151	AB	14'6"	CA
1			42/C			32009 SH. 8	B5151	AB	14'6"	CA
1			42/O			32009 SH. 8	B5151	AB	14'6"	CA
1	GE-HFA	12HFA151A9H	43X	NO	NO	32009 SH. 8	C02R	CB	36'6"	CA
			HS2508			32009 SH. 8	C02	CB	36'6"	NV
			# RELAY SIAS (Note 7)							NA
			SIAS/K519B	NO	NO/NC	39047 SH. 7	RC02B	CB	36'6"	

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OA - Operator action.

Blank - Essential Contact.

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Equipment ID No. : 2-CH-509

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
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Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
		Y/N	NO/NC				
	42/C			32009 SH. 9	B5149	AB	14'6"
	42/O			32009 SH. 9	B5149	AB	14'6"
	43X			32009 SH. 9	C02	CB	36'6" CA
	HS2509			32009 SH. 9	C02	CB	36'6" NV
	SIAS1			32009 SH. 9	RC02B	CB	36'6" CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

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NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 12
DATE 12/12/95
REV. 0

Equipment ID No. : 2-CH-510

ENERG

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1			33/AC/ZS510			32009 SH 24	LOCAL			NV
1			42-c/a	NO	NO	32009 SH 10	B6142			CA
1			42-c/o	NO	NO	32009 SH 10	B6142			CA
1	GE-HFA	12HFA51A42H42	43X	NO	NO	32009 SH 24	C02	CB	36'6"	CA
			HS2510			32009 SH 24	C02	CB	36'6"	NV
			SIAS-2			32009 SH 24	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays)
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

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Equipment ID No. : 2-CH-511

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1			33/AC/ZS511			32009 SH 25	LOCAL			NV
1	GE-HFA	12HFA51A42H42	43X	NO	NO	32009 SH 25	C02	CB	36'6"	CA
			HS2511			32009 SH 25	C02	CB	36'6"	NV
			SIAS-2			32009 SH 25	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

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Equipment ID No. : 2-CH-512

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	43X (Note 10)			32009 SH. 21	C02R	CB	36'6"	CA
	43Y (Note 10)			32009 SH. 21	C04	CB	36'6"	CA
	# 63X (Note 10)			32009 SH. 23	C02R	CB	36'6"	CA
	63XA/LC-226 (Note 10)			32009 SH. 21	C02R	CB	36'6"	CA
	# 94 (Note 10)			32009 SH. 21	C02R	CB	36'6"	CA
	# HS210			32009 SH. 21	C04	CB	36'6"	NV
	# HS2512			32009 SH. 21	C04	CB	36'6"	NV
	HS2512A			32009 SH. 21	C04	CB	36'6"	NV
	LC-226			28500 SH. 226	LOCAL	AB	-5'6"	NV
	SIAS			32009 SH. 21	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

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Equipment ID No. : 2-CH-514

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			42-cla	NO	NO	32009 SH.10	B6142	AB	14'6"	CA
1			42-c/o	NO	NO	32009 SH.10	B6142	AB	14'6"	CA
1			42/C			32009 SH.10	B6142	AB	14'6"	CA
1			42/O			32009 SH.10	B6142	AB	14'6"	CA
1	GE-HFA	12HFA51A62H42	43X	NO	NO	32009 SH.10	C02R	CB	36'6"	CA
			HS2514			32009 SH.10	C02	CB	36'6"	NV
			SIAS-2/SEQ1			32009 SH.10	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

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Equipment ID No. : 2-CH-515

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *	
		Y/N	NO/NC					
1	33/AC/ZS515			32009 SH. 33	LOCAL	RB	-3'6"	NV
	43X			32009 SH. 33	C02R	CB	36'6"	CA
	63X/TC221			32009 SH. 33	C02	CB	36'6"	CA
	HS2515			32009 SH. 33	C02	CB	36'6"	NV
	SIAS1			32009 SH. 33	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

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Equipment ID No. : 2-CH-516

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1	33/AC/ZS516			32009 SH. 34	LOCAL	RB	-3'6"	NV
	43X			32009 SH. 34	C02	CB	36'6"	CA
	CIAS2			32009 SH. 34	RC02C	CB	36'6"	CA
	HS2516			32009 SH. 34	C02	CB	36'6"	NV
	TS516			32009 SH. 34	LOCAL	RB	-3'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

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System: CVCS

USI A-48 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-CH-517

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact #	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
GE-HGA	12HGA11J52G	# 94	NO	NO	32009 SH. 35	C02R	CB	36'6"	
		HS2517			32009 SH. 35	C02	CB	36'6"	NV
		HS2517A			32009 SH. 35	C10	TB	54'6"	NV
		HS2517B			32009 SH. 35	C10	TB	54'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

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Equipment ID No. : 2-CH-518

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

ENERG

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	GE-HGA	12HGA11J52	# 94	NO	NO	32009 SH. 36	C02R	CB	36'6"	
			HS2518			32009 SH. 36	C02	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-CH-519

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact #	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
GE-HGA	12HGA11J52	# 94	NO	NO	32009 SH. 37	C02R	CB	36'6"	
		HS2519			32009 SH. 37	C02R	CB	36'6"	NV
		HS2519A			32009 SH. 37	C10	TB	54'6"	NV
		HS2519B			32009 SH. 37	C10	TB	54'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

Equipment ID No. : 2-CH-910

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	43Y-2			32009 SH. 60	C04	CB	36'6"	CA
	HS2910			32009 SH. 60	C04	CB	36'6"	NV
	SIAS2			32009 SH. 60	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-CHW-11

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	# 43Y/2			32023 SH. 47	C80	CB	36'6"	CA
	HS8847			32023 SH. 47	C80	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

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Equipment ID No. : 2-CHW-12

MILLSTONE POINT UNIT 2

DATE 12/12/95
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DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	# 43Y/2			32023 SH. 48	C80	CB	36'6"	CA
	# HS8854			32023 SH. 48	C80	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

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System: HVAC

Equipment ID No. : 2-CHW-13

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
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Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	#	43Y/2			32023 SH. 47	C80	CB	36'6"	CA
		HS8850			32023 SH. 47	C80	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-CHW-14

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	# 43Y/2			32023 SH. 48	C80	CB	36'6"	CA
	# HS8855			32023 SH. 48	C80	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-CHW-3

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
	#	43Y/2			32023 SH. 47	C80	CB	36'6"	CA
	#	HS8846			32023 SH. 47	C80	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-CHW-33

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	#	43Y/2			32023 SH. 48	C80	CB	36'6"	CA
	#	HS8853			32023 SH. 48	C80	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: COND

Equipment ID No. : 2-CN-241

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	LC5280C			32012 SH. 30	LOCAL	EB	14'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HPSI

Equipment ID No. : 2-CS-13.1A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	42/C			32008 SH. 27	B5124	AB	14'6"	
	42/O			32008 SH. 27	B5124	AB	14'6"	CA
	HS3010			32008 SH. 27	C01	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HPSI

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 30

Equipment ID No. : 2-CS-13.1B

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	42/C			32008 SH. 28	B6125	AB	14'6"	
	42/O			32008 SH. 28	B6125	AB	14'6"	CA
	HS3011			32008 SH. 28	C01	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CS

Equipment ID No. : 2-CS-4.1A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 31

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bidg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32008 SH. 29	B5150	AB	14'6"	CA
	42/O			32008 SH. 29	B5150	AB	14'6"	
	43X			32008 SH. 29	C01	CB	36'6"	CA
	CSAS-K510A	NO	NO	39047 SH. 10	RC02B	CB	36'6"	
	HS3021			32008 SH. 29	C01	CB	36'6"	NV
	# RELAY CSAS (Note 6)							NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 32
DATE 12/12/95
REV. 0

Equipment ID No. : 2-CS-4.1B

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32008 SH. 30	B6124	AB	14'6"	CA
	42/O			32008 SH. 30	B6124	AB	14'6"	
	43X			32008 SH. 30	C01	CB	36'6"	CA
	CSAS-K610A	NO	NC	39047 SH. 14	RC02C	CB	36'6"	
	HS3022			32008 SH. 30	C01	CB	36'6"	NV
	# RELAY CSAS (Note 6)							NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: DG

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 33

Equipment ID No.: 2-DG-27A

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
			# 4(DG-A)			32041 SH. 3 & 4	T040	AB	14'6"	
	GE-HEA	12HEA63C238	# 43-1(DG-A)	Y/N	NO/NC	32041 SH. 3 & 4	C38	AB	14'6"	
			# 43-MSS(DG-A)			32041 SH. 3	C08	CB	36'6"	NV
			# 43-MSS3(DG-A)			32041 SH. 3	C38	AB	14'6"	NV
			# 43-MSSX(DG-A)			32041 SH. 4	C38	AB	14'6"	
			# DGH7A			32041 SH. 3	C08	CB	36'6"	NV
	ITE		# HSR(DG-A)	NO	NO	32041 SH. 3 & 4	T040	AB	14'6"	
			# LP1/K530A			32041 SH. 3	RC02B	CB	36'6"	
	ITE		# LSR(DG-A)			32041 SH. 3 & 4	T040	AB	14'6"	
			# OPS(DG-A)			32041 SH. 4	T040	AB	14'6"	
			# PB1(DG-A)			32041 SH. 4	T040	AB	14'6"	NV
			# PB100(DG-A)			32041 SH. 3	C38	AB	14'6"	NV
			# PB15(DG-A)			32041 SH. 3	C38	AB	14'6"	NV
			# PB3(DG-A)			32041 SH. 5	T040	AB	14'6"	NV
	ITE		# SDR (A) (Note 1)	NO	NO	32041 SH. 3 & 4	T040	AB	14'6"	
	ITE		# SFR(DG-A)			32041 SH. 3	T040	AB	14'6"	
			# SSW (250)(DG-A)			32041 SH. 4	T040	AB	14'6"	
			# SSW (810)(DG-A)			32041 SH. 4	T040	AB	14'6"	
	AGASTAT	E7022PD002	# TD1(DG-A)	Y/N	NO/NC	32041 SH. 7	T040	AB	14'6"	
	AGASTAT	2422DB	# TD3(DG-A)	Y/N	NO	32041 SH. 3 & 4	C38	AB	14'6"	
	AGASTAT	2422PB	# TD4(DG-A)	Y/N	NO	32041 SH. 3 & 4	C38	AB	14'6"	
	AGASTAT	E7022PB004	# TD7(DG-A)	Y/N	NO	32041 SH. 7	T040	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: DG

Equipment ID No. : 2-DG-27B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 34

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
			# 4(DG-B)			32041 SH. 16	T041	AB	14'6"	
GE-HEA	12HEA63C238		# 43-1(DG-B)	Y/N	NO/NC	32041 SH. 15 & 16	C39	AB	14'6"	
			# 43-MSS(DG-B)			32041 SH. 15	C08	CB	36'6"	NV
			# 43-MSS3(DG-B)			32041 SH. 15 & 16	C39	AB	14'6"	NV
			# 43-MSSX(DG-B)			32041 SH. 16	C39	AB	14'6"	
			# DGH7B			32041 SH. 15	C08	CB	36'6"	NV
			# HSR(DG-B)	NO	NO	32041 SH. 15 & 16	T041	AB	14'6"	
			# LPII/K630A			32041 SH. 15, 32047 SH. 15	RC02C	CB	36'6"	
			# LSR(DG-B)			32041 SH. 15 & 16	T041	AB	14'6"	
			# OPS(DG-B)			32041 SH. 16	T041	AB	14'6"	
			# PB1(DG-B)			32041 SH. 16	T041	AB	14'6"	NV
			# PB100(DG-B)			32041 SH. 15	C39	AB	14'6"	NV
			# PB15(DG-B)			32041 SH. 15	C39	AB	14'6"	NV
			# PB3(DG-B)			32041 SH. 17	T041	AB	14'6"	NV
			# SDR (B) (Note 2)	NO	NO	32041 SH. 15 & 16	T041	AB	14'6"	
			# SFR(DG-B)			32041 SH. 15	T041	AB	14'6"	
			# SSW (250)(DG-B)			32041 SH. 16	T041	AB	14'6"	
			# SSW (810)(DG-B)			32041 SH. 16	T041	AB	14'6"	
AGASTAT	2422PC		# TD1(DG-B)	Y/N	NO/NC	32041 SH. 19	T041	AB	14'6"	
AGASTAT	2422PB		# TD3(DG-B)	Y/N	NO	32041 SH. 15 & 16	C39	AB	14'6"	
AGASTAT	E7022PC002		# TD4(DG-B)	Y/N	NO	32041 SH. 15 & 16	C39	AB	14'6"	
			# TD7(DG-B)	Y/N	NO	32041 SH. 19	T041	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: DG

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 35

Equipment ID No. : 2-DG-95A

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
		# 4(DG-A)			32041 SH 3 & 4	T040	AB	14'6"	
GE-HEA	12HEA63C238	# 43-1(DG-A)	Y/N	NO/NC	32041 SH 3 & 4	C38	AB	14'6"	
		# 43-MSS(DG-A)			32041 SH 3	C08	CB	36'6"	NV
		# 43-MSS3(DG-A)			32041 SH 3	C38	AB	14'6"	NV
		# 43-MSSX(DG-A)			32041 SH 4	C38	AB	14'6"	
		# DGH7A			32041 SH 3	C08	CB	36'6"	NV
ITE		# HSR(DG-A)	NO	NO	32041 SH 3 & 4	T040	AB	14'6"	
		# LP1/K530A			32041 SH 3	RC02B	CB	36'6"	
ITE		# LSR(DG-A)			32041 SH 3 & 4	T040	AB	14'6"	
		# OPS(DG-A)			32041 SH 4	T040	AB	14'6"	
		# PB1(DG-A)			32041 SH 4	T040	AB	14'6"	NV
		# PB100(DG-A)			32041 SH 3	C38	AB	14'6"	NV
		# PB15(DG-A)			32041 SH 3	C38	AB	14'6"	NV
		# PB3(DG-A)			32041 SH 5	T040	AB	14'6"	NV
ITE		# SDR (A) (Note 1)	NO	NO	32041 SH 3 & 4	T040	AB	14'6"	
ITE		# SFR(DG-A)			32041 SH 3	T040	AB	14'6"	
		# SSW (250)(DG-A)			32041 SH 4	T040	AB	14'6"	
		# SSW (810)(DG-A)			32041 SH 4	T040	AB	14'6"	
AGASTAT	E7022PD002	# TD1(DG-A)	Y/N	NO/NC	32041 SH 7	T040	AB	14'6"	
AGASTAT	2422DB	# TD3(DG-A)	Y/N	NO	32041 SH 3 & 4	C38	AB	14'6"	
AGASTAT	2422PB	# TD4(DG-A)	Y/N	NO	32041 SH 3 & 4	C38	AB	14'6"	
AGASTAT	E7022PB004	# TD7(DG-A)	Y/N	NO	32041 SH 7	T040	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: DG

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 36

Equipment ID No. : 2-DG-95B

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
			# 4(DG-B)			32041 SH. 16	T041	AB	14'6"	
GE-HEA	12HEA63C238		# 43-1(DG-B)	Y/N	NO/NC	32041 SH. 16	C39	AB	14'6"	
			# 43-MSS(DG-B)			32041 SH. 15	C08	CB	36'6"	NV
			# 43-MSS3(DG-B)			32041 SH. 16	C39	AB	14'6"	NV
			# 43-MSSX(DG-B)			32041 SH. 16	C39	AB	14'6"	
			# DGH7B			32041 SH. 15	C08	CB	36'6"	NV
			# HSR(DG-B)	NO	NO	32041 SH. 16	T041	AB	14'6"	
			# LP11/K630A			32041 SH. 15	RC02C	CB	36'6"	
			# LSR(DG-B)			32041 SH. 16	T041	AB	14'6"	
			# OPS(DG-B)			32041 SH. 16	T041	AB	14'6"	
			# PB1(DG-B)			32041 SH. 16	T041	AB	14'6"	NV
			# PB100(DG-B)			32041 SH. 15	C39	AB	14'6"	NV
			# PB15(DG-B)			32041 SH. 15	C39	AB	14'6"	NV
			# PB3(DG-B)			32041 SH. 17	T041	AB	14'6"	NV
			# SDR (B) (Note 2)	NO	NO	32041 SH. 16	T041	AB	14'6"	
			# SFR(DG-B)			32041 SH. 15	T041	AB	14'6"	
			# SSW (250)(DG-B)			32041 SH. 16	T041	AB	14'6"	
			# SSW (810)(DG-B)			32041 SH. 16	T041	AB	14'6"	
AGASTAT	2422PC		# TD1(DG-B)	Y/N	NO/NC	32041 SH. 19	T041	AB	14'6"	
AGASTAT	2422PB		# TD3(DG-B)	Y/N	NO	32041 SH. 15, 16	C39	AB	14'6"	
AGASTAT	E7022PC002		# TD4(DG-B)	Y/N	NO	32041 SH. 16	C39	AB	14'6"	
			# TD7(DG-B)	Y/N	NO	32041 SH. 19	T041	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: DG

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 37

Equipment ID No. : 2-DG-96A

DATE 12/12/95
REV. 0

		ENERG							
Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
			# 4(DG-A)			32041 SH. 3	T040	AB	14'6"
GE-HEA	12HEA63C238		# 43-1(DG-A)	Y/N	NO/NC	32041 SH. 3	C38	AB	14'6"
			# 43-MSS(DG-A)			32041 SH. 3	C08	CB	36'6" NV
			# 43-MSS3(DG-A)			32041 SH. 3 & 4	C38	AB	14'6" NV
			# DGH7A			32041 SH. 3	C08	CB	36'6" NV
ITE			# HSR(DG-A)	NO	NO	32041 SH. 3 & 4	T040	AB	14'6"
			# LP1/K530A			32041 SH. 3	RC02B	CB	36'6"
ITE			# LSR(DG-A)			32041 SH. 3 & 4	T040	AB	14'6"
			# OPS(DG-A)			32041 SH. 4	T040	AB	14'6"
			# PB1(DG-A)			32041 SH. 4	T040	AB	14'6" NV
			# PB100(DG-A)			32041 SH. 3	C38	AB	14'6" NV
			# PB15(DG-A)			32041 SH. 3	C38	AB	14'6" NV
			# PB3(DG-A)			32041 SH. 5	T040	AB	14'6" NV
ITE			# SDR (A) (Note 1)	NO	NO	32041 SH. 3 & 4	T040	AB	14'6"
ITE			# SFR(DG-A)			32041 SH. 3 & 7	T040	AB	14'6"
			# SSW (250)(DG-A)			32041 SH. 4	T040	AB	14'6"
			# SSW (810)(DG-A)			32041 SH. 4	T040	AB	14'6"
AGASTAT	E7022PD002		# TD1(DG-A)	Y/N	NO/NC	32041 SH. 7	T040	AB	14'6"
AGASTAT	2422DB		# TD3(DG-A)	Y/N	NO	32041 SH. 3	C38	AB	14'6"
AGASTAT	2422PB		# TD4(DG-A)	Y/N	NO	32041 SH. 3	C38	AB	14'6"
AGASTAT	E7022PB004		# TD7(DG-A)	Y/N	NO	32041 SH. 7	T040	AB	14'6"

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: DG

Equipment ID No. : 2-DG-96B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 38

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
		# 4(DG-B)			32041 SH. 15	T041	AB	14'6"	
GE-HEA	12HEA63C238	# 43-1(DG-B)	Y/N	NO/NC	32041 SH. 15	C39	AB	14'6"	
		# 43-MSS(DG-B)			32041 SH. 15	C08	CB	36'6"	NV
		# 43-MSS3(DG-B)			32041 SH. 15	C39	AB	14'6"	NV
		# DGH7B			32041 SH. 15	C08	CB	36'6"	NV
		# HSR(DG-B)	NO	NO	32041 SH. 15	T041	AB	14'6"	
		# LP11/K630A			32041 SH. 15	RC02C	CB	36'6"	
		# LSR(DG-B)			32041 SH. 15	T041	AB	14'6"	
		# OPS(DG-B)			32041 SH. 16	T041	AB	14'6"	
		# PB1(DG-B)			32041 SH. 16	T041	AB	14'6"	NV
		# PB100(DG-B)			32041 SH. 15	C39	AB	14'6"	NV
		# PB15(DG-B)			32041 SH. 15	C39	AB	14'6"	NV
		# PB3(DG-B)			32041 SH. 17	T041	AB	14'6"	NV
		# SDR (B) (Note 2)	NO	NO	32041 SH. 15	T041	AB	14'6"	
		# SFR(DG-B)			32041 SH. 15	T041	AB	14'6"	
		# SSW (250)(DG-B)			32041 SH. 16	T041	AB	14'6"	
		# SSW (810)(DG-B)			32041 SH. 16	T041	AB	14'6"	
AGASTAT	2422PC	# TD1(DG-B)	Y/N	NO/NC	32041 SH. 19	T041	AB	14'6"	
AGASTAT	2422PB	# TD3(DG-B)	Y/N	NO	32041 SH. 15	C39	AB	14'6"	
AGASTAT	E7022PC002	# TD4(DG-B)	Y/N	NO	32041 SH. 15	C39	AB	14'6"	
		# TD7(DG-B)	Y/N	NO	32041 SH. 19	T041	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: AFW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 39

Equipment ID No. : 2-FW-12A

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		HS5421			32012 SH. 27	C05	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: AFW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 40

Equipment ID No. : 2-FW-12B

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS5422			32012 SH. 28	C05	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: AFW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

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Equipment ID No. : 2-FW-43A

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
	GE-HFA	12HFA151A2H	20X/Z1	NO	NO	32012 SH. 21	C05F	CB	36'6"	
1	GE-HFA	12HFA151A9H	# 86Z1A	NO	NC	32012 SH. 21 & 44	C05F	CB	36'6"	CA
1	GE-HFA	12HFA151A9H	# 86Z2B	NO	NC	32012 SH. 21 & 45	C05	CB	36'6"	CA
			# HS4188C			32012 SH. 44	C21	AB	38'6"	NV
			HS4188E			32012 SH. 44	C05	CB	36'6"	NV
			HS5276A			32012 SH. 21	C05	CB	36'6"	NV
			HS5276B			32012 SH. 21	C21	AB	38'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: AFW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 42

Equipment ID No. : 2-FW-43B

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
	GE-HFA	12HFA151A2H	20X/Z2	NO	NO	32012 SH. 22	C05F	CB	36'6"	
			62BD55			32012 SH. 45	C05	CB	36'6"	CA
			62Z2			32012 SH. 45	C05	CB	36'6"	CA
			86Z1B			32012 SH. 22	C05	CB	36'6"	CA
1	GE-HFA	12HFA151A9H	# 86Z2A	NO	NO/NC	32012 SH. 22 & 45	C05	CB	36'6"	CA
			# 86Z2B			32012 SH. 45	C05	CB	36'6"	CA
			# HS4188D			32012 SH. 45	C21	AB	38'6"	NV
			HS4188F			32012 SH. 45	C05	CB	36'6"	NV
			HS5279A			32012 SH. 22	C05	CB	36'6"	NV
			HS5279B			32012 SH. 22	C21	AB	38'6"	NV
			HS5279C			32012 SH. 22	C10	TB	54'6"	NV
			HS5279D			32012 SH. 22	C10	TB	54'6"	NV
			JY-010			32012 SH. 45	RC30B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: AFW

Equipment ID No. : 2-FW-44

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 43

DATE 12/12/95

REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	42/C			32012 SH. 13	B6203	AB	36'6"	
	42/O			32012 SH. 13	B6203	AB	36'6"	CA
	HS5275A			32012 SH. 13	C05	CB	36'6"	NV
	HS5275B			32012 SH. 13	C21	AB	38'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: AFW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 44

Equipment ID No. : 2-FW-5A

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS5419			32012 SH. 25	C05	CB	36'6"	NV
	MSI-K526B			39047 SH. 10	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: AFW

Equipment ID No. : 2-FW-5B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 45

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		HS5420			32012 SH. 26	C05	CB	36'6"	NV
		MSI-K626B			39047 SH. 14	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

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Equipment ID No. : 2-HV-203A

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

ENERG

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1			33/AC (Note 18)			32023 SH. 1	LOCAL	AB	36'6"	NV
1			33/BO (Note 18)			32023 SH. 1	LOCAL	AB	36'6"	NV
	TEL	CLASS T	# 3X-1/J10 (Note 18)			32023 SH. 37	C25A	CB	36'6"	CA
	TEL	CLASS T	# 3X/J10 (Note 18)			32023 SH. 1, 37	C25A	CB	36'6"	CA
			# 42 (Note 18)			32023 SH. 1	B5214	AB	38'6"	CA
			# 45X/J10			32023 SH. 37	C25A	CB	36'6"	CA
			# 49 (Note 18)			32023 SH. 1	B5214	AB	38'6"	CA
	PYROTONIC SYS	ZIU-6 PCB	# AS8362 (Note 18)			32023 SH. 37	C26	CB	36'6"	CA
			# HS8004A			32023 SH. 37	C25A	CB	36'6"	NV
			# HS8009			32023 SH. 1	C25A	CB	36'6"	NV
			# SEQ. 0/K534B			32023 SH. 1, 39047 SH. 11	RC02B	CB	36'6"	CA
			SEQ. 4/K534H			32023 SH. 1, 39047 SH. 11	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-203B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 47

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			33/AC (Note 18)			32023 SH. 2	LOCAL	AB	36'6"	NV
1			33/BO (Note 18)			32023 SH. 2	LOCAL	AB	36'6"	NV
			# 3X-1/J10 (Note 18)			32023 SH. 2, 39A	C25B	CB	36'6"	CA
	TEL	J10	# 3X/J10 (Note 18)			32023 SH. 2, 39A	C25B	CB	36'6"	CA
			42A (Note 18)			32023 SH. 2	B6234	AB	36'6"	CA
			# 45X			32023 SH. 39	C25B	CB	36'6"	CA
			# 49 (Note 18)			32023 SH. 2	B6234	AB	36'6"	CA
	PYROTONIC SYS	ZIU-6 PCB	# AS8358 (Note 18)			32023 SH. 2	C26	CB	36'6"	CA
			# HS8010			32023 SH. 2	C25B	CB	36'6"	NV
			# SEQ. 0/K634B (Note 18)			32023 SH. 2, 39047 SH. 15	RC02C	CB	36'6"	CA
			# SEQ. 4/K634H (Note 18)			32023 SH. 2, 39047 SH. 15	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-206A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 48

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bidg.	Elev.	SAT. *
				Y/N	NO/NC					
1			33/AC			32023 SH. 3	LOCAL	AB	36'6"	NV
1			33/BO			32023 SH. 3	LOCAL	AB	36'6"	NV
			# 42			32023 SH. 3	B5211	AB	38'6"	CA
			# 49			32023 SH. 3	B5211	AB	38'6"	CA
			# HS8001			32023 SH. 3	C25A	CB	36'6"	NV
1			# SEQ. 0/K534C	NO	NC	32023 SH. 3, 39047 SH. 11	RC02B	CB	36'6"	CA
			# SEQ. 4/K534G			32023 SH. 3, 39047 SH. 11	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-206B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 49

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			33/AC			32023 SH. 4	LOCAL	AB	36'6"	NV
1			33/BO			32023 SH. 4	LOCAL	AB	36'6"	NV
		#	42			32023 SH. 4	B6228	AB	36'6"	CA
		#	49			32023 SH. 4	B6228	AB	36'6"	CA
		#	HS8000			32023 SH. 4	C25B	CB	36'6"	NV
1		#	SEQ. 0/K634C	NO	NC	32023 SH. 4, 39047 SH. 15	RC02C	CB	36'6"	CA
		#	SEQ. 4/K634G			32023 SH. 4, 39047 SH. 15	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-209

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 50

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS8359			29132 SH. 50B	C25B	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-214A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 51

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
			# 42/MF21A			32023 SH. 1, 53	B5214	AB	38'6"	CA
			# HS9779			32023 SH 53	X42A	AB	58'6"	NV
1			# M1	NO	NO	32023 SH 53	C25A	CB	36'6"	CA
1			# TS9779			32023 SH 53	LOCAL	AB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-214B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 52

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
			# 42/MΓ 21A			32023 SH. 1, 53	B5214	AB	38'6"	CA
			# HS9779			32023 SH. 53	X42A	AB	36'6"	NV
1			# M1	NO	NO	32023 SH. 53	C25A	CB	36'6"	CA
1			# TS9779			32023 SH. 53	LOCAL	AB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-HV-215A

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
			# 42/MF21B			32023 SH 2, 54	B6234	AB	36'6"	CA
			# HS9780			32023 SH 54	X42B	AB	36'6"	NV
1			# M1	NO	NO	32023 SH 54	C25B	CB	36'6"	CA
1			# TS9780			32023 SH 54	LOCAL	AB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-215B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 54

DATE 12/12/95
REV. 0

		ENERG							
Rev.	Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
		#	42/MF21B			32023 SH. 2. 54	B6234	AB	36'6" CA
		#	HS9780			32023 SH. 54	X42B	AB	36'6" NV
1		#	M1	NO	NO	32023 SH. 54	C25B	CB	36'6" CA
1		#	TS9780			32023 SH. 54	LOCAL	AB	36'6" CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-253B

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Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		HS8014			32023 SH. 32	NHV8014	AB	14'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-255A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

MILLSTONE POINT UNIT 2

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DATE 12/12/95

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ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
	42 (Note 3)			32023 SH. 7	B5140	AB	14'6"

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-255B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
	42 (Note 4)			32023 SH. 8	B6147	AB	14'6"

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-274

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
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Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			33/AC			32023 SH. 43	HV8843	TB	56'6"	NV
1			33/BO			32023 SH. 43	HV8843	TB	56'6"	NV
			42			32023 SH. 43	B6154	AB	14'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-509

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
		# 42				32023 SH 58	B5235	AB	38'6"	CA
		# 42				32023 SH 44	B5224	AB	38'6"	CA
		# 49				32023 SH 58	B5235	AB	38'6"	CA
1		# HPC				32023 SH 58, 29136 SH 44	X169A	TB	14'6"	CA
		# HS8845				32023 SH 44	C80	CB	36'6"	NV
		# HS9855				32023 SH 58	X169A	TB	14'6"	NV
1		# LTC(X169A)				32023 SH 58, 29136 SH 44	X169A	TB	14'6"	CA
1		# MP		YES	NO	32023 SH 58, 29136 SH 44	X169A	TB	14'6"	CA
1		# OPC(X169A)				32023 SH 58, 29136 SH 44	X169A	TB	14'6"	CA
1		# TC				32023 SH 58, 29136 SH 44	X169A	TB	14'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : 2-HV-510

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
		# 42				32023 SH. 45	B6238	AB	36'6"	CA
		# 42				32023 SH. 59	B6241	AB	36'6"	CA
		# 49				32023 SH. 59	B6241	AB	36'6"	CA
1		# HPC				32023 SH. 59, 31057 SH. 5	X169B	TB	14'6"	CA
		# HS8852				32023 SH. 45	C80	CB	36'6"	NV
		# HS9856				32023 SH. 59	X169B	TB	14'6"	NV
1		# LTC(X169B)				32023 SH. 59, 31057 SH. 5	X169BC	TB	14'6"	CA
1		# MP		YES NO		32023 SH. 59, 31057 SH. 5	X169B	TB	14'6"	CA
1		# OPC(X169B)				32023 SH. 59, 31057 SH. 5	X169B	TB	14'6"	CA
1		# TC				32023 SH. 59, 31057 SH. 5	X169B	TB	14'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

Equipment ID No. : 2-MS-190A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
	GE-HFA	12HFA151A2H	# 1X/UV4165	NO	NO	32020 SH. 61	C05R	CB	36'6"	
	GE-HGA	12HGA11J52G	# 63X-1/4224	NO	NO	32020 SH. 61	C05R	CB	36'6"	
1		SB SWITCH	# 94TG-1/0/15G-2U	NO	NO	32020 SH. 43	C07R	CB	36'6"	NV
1		SB SWITCH	# 94TG-2/0/15G-2U	NO	NO	32020 SH. 43	C07R	CB	36'6"	NV
	GE-HFA	12HFA151A2H	# 94TGX6/UV4165	NO	NO	32020 SH. 61	C05R	CB	36'6"	
			# HS-100-10			32020 SH. 61, 39107 SH. 12	C04	CB	36'6"	NV
			HS4223A			32020 SH. 61	C70A	AB	36'6"	NV
			# HS4224			32020 SH. 61	C05	CB	36'6"	NV
			# TS-8/15G-2U			32020 SH. 43	C07R	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

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Equipment ID No. : 2-MS-190B

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
	GE-HFA	12HFA151A2H	# 1X/UV4165	NO	NO	32020 SH. 61	C05R	CB	36'6"	
	GE-HGA	12HGA11J52G	# 63X-1/4224	NO	NO	32020 SH. 61	C05R	CB	36'6"	
1		SB SWITCH	# 94TG-1/0/15G-2U	NO	NO	32020 SH. 43	C07R	CB	36'6"	NV
1		SB SWITCH	# 94TG-2/0/15G-2U	NO	NO	32020 SH. 43	C07R	CB	36'6"	NV
	GE-HFA	12HFA151A2H	# 94TGX6/UV4165	NO	NO	32020 SH. 61	C05R	CB	36'6"	
			# HS-100-10			32020 SH. 61, 39107 SH. 12	C04	CB	36'6"	NV
			# HS4224			32020 SH. 61	C05	CB	36'6"	NV
			HS4224A			32020 SH. 61	C70B	AB	36'6"	NV
			# TS-8/15G-2U			32020 SH. 43	C07R	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

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Equipment ID No. : 2-MS-201

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32020 SH. 8	B5202	AB	38'6"	
	42/O			32020 SH. 8	B5202	AB	38'6"	
	HS4191A			32020 SH. 8	C05	CB	36'6"	NV
	HS4191B			32020 SH. 8	C21	AB	38'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

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MILLSTONE POINT UNIT 2
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Equipment ID No. : 2-MS-202

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32020 SH. 7	B6202	AB	36'6"	
	42/O			32020 SH. 7	B6202	AB	36'6"	CA
	HS4189A			32020 SH. 7	C05	CB	36'6"	NV
	HS4189B			32020 SH. 7	C21	AB	38'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

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Equipment ID No. : 2-MS-220A

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	43X			32020 SH. 14	C06X	CB	36'6"	CA
	CIAS-K503A			39047 SH. 9	RC02B	CB	36'6"	CA
	HS4246			32020 SH. 14	C05	CB	36'6"	NV
	HS4246A			32020 SH. 14	C70A	AB	36'6"	NV
	RIS4262			32020 SH. 14	RC14A	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

Equipment ID No. : 2-MS-220B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	43X			32020 SH. 15	C06X	CB	36'6"	CA
	CIAS-K603A			39047 SH. 13	RC02C	CB	36'6"	CA
	HS4248			32020 SH. 15	C05	CB	36'6"	NV
	HS4248A			32020 SH. 15	C70B	AB	36'6"	NV
	RIS4262			32020 SH. 15	RC14B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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Equipment ID No. : 2-MS-289

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
GE-HGA	12HGA11J52G	# 20X1	NO	NO	32020 SH. 47	C06R	CB	36'6"	
		HS4213/C			32020 SH. 47	C07	CB	36'6"	NV
		HS4213/O			32020 SH. 47	C07	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-4c RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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Equipment ID No. : 2-MS-294

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
	GE-HGA	12HGA11J52G	# 20X1	NO	NO	32020 SH 48	C06R	CB	36'6"	
			HS4219/C			32020 SH 48	C07	CB	36'6"	NV
			HS4219/O			32020 SH 48	C07	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-MS-64A (Z1)

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1	GE-HFA	12HFA151A2H	# 3-1	NO	NO	32020 SH.18	C05R	CB	36'6"	CA
1	GE-HFA	12HFA151A2H	# 3-2	NO	NO	32020 SH.18	C05R	CB	36'6"	CA
1	GE-HFA	12HFA51A42H42	43X	NO	NO	32020 SH.18	C06X	CB	36'6"	CA
			HS4217A			32020 SH.18	C05	CB	36'6"	NV
			HS4217C			32020 SH.18	C70A	AB	36'6"	NV
			HS4217T3			32020 SH.18	C05R	CB	36'6"	NV
			# MSI-K525A			39047 SH.10	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

Equipment ID No. : 2-MS-64A (Z2)

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1	GE-HFA	12HFA151A2H	# 3-1	NO	NO	32020 SH.19	C05R	CB	36'6"	CA
1	GE-HFA	12HFA151A2H	# 3-2	NO	NO	32020 SH.19	C05R	CB	36'6"	CA
1	GE-HFA	12HFA51A42H42	43X	NO	NO	32020 SH.19	C06X	CB	36'6"	CA
			HS4217B			32020 SH.19	C05	CB	36'6"	NV
			HS4217D			32020 SH.19	C70B	AB	36'6"	NV
			# MSI-K525A			39047 SH.10	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-MS-64B (Z1)

DATE 12/12/95
REV. 0

ENERG										
Rev.	Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1	GE-HFA	12HFA151A2H	3-1 "AAD"	NO	NO	32020 SH 21	C05R	CB	36'6"	CA
1	GE-HFA	12HFA151A2H	3-2 "AAC"	NO	NO	32020 SH 21	C05R	CB	36'6"	CA
1	GE-HFA	12HFA51A42H42	43X	NO	NO	32020 SH, 21	C06X	CB	36'6"	CA
			HS4221B			32020 SH, 21	C05	CB	36'6"	NV
			HS4221C			32020 SH 21	C70A	AB	36'6"	NV
			MSI-K625A			39047 SH 14	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

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Equipment ID No. : 2-MS-64B (Z2)

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1	GE-HFA	12HFA151A2H	3-1 "AW"	NO	NO	32020 SH 20	C05R	CB	36'6"	CA
1	GE-HFA	12HFA151A2H	3-2 "AV"	NO	NO	32020 SH 20	C05R	CB	36'6"	CA
1	GE-HFA	12HFA51A42H42	43X	NO	NO	32020 SH 20	C06X	CB	36'6"	CA
			HS4221A			32020 SH 20	C05	CB	36'6"	NV
			HS4221D			32020 SH 20	C70B	AB	36'6"	NV
			HS4221T3			32020 SH 20	C05R	CB	36'6"	NV
			MSI-2			32020 SH 20	RC02C	CB	36'6"	CA

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CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

Equipment ID No. : 2-MS-65A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32020 SH. 1	B5207	AB	38'6"	CA
	42/O			32020 SH. 1	B5207	AB	38'6"	
	43X			32020 SH. 1	C06X	CB	36'6"	CA
	HS4218			32020 SH. 1	C05	CB	36'6"	NV
	MSI-K526A			39047 SH. 10	RC02B	CB	36'6"	CA

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NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

Equipment ID No. : 2-MS-65B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32020 SH. 2	B6208	AB	36'6"	CA
	42/O			32020 SH. 2	B6208	AB	36'6"	
	43X			32020 SH. 2	C06X	CB	36'6"	CA
	HS4222			32020 SH. 2	C05	CB	36'6"	NV
	MSI-K626A			39047 SH. 14	RC02C	CB	36'6"	CA

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CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

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OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-13.1A

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			33/BO/ZS6050			32015 SH. 10	LOCAL	AB	-45'6"	NV
	GE-HFA	12HFA51A42H42	43X			32015 SH. 10	C06X	CB	36'6"	CA
			HS6050			32015 SH. 10	C06	CB	36'6"	NV
			# RELAY SRAS (Note 8)							NA
			SRAS/K511A	NO	NO/NC	39047 SH. 10	RC02B	CB	36'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

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CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

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Equipment ID No. : 2-RB-13.1B

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			33/BO/ZS6055			32015 SH. 11	LOCAL	AB	-45'6"	NV
	GE-HFA	12HFA51A42H42	43X			32015 SH. 11	C06X	CB	36'6"	CA
			HS6055			32015 SH. 11	C06	CB	36'6"	NV
			# RELAY SRAS (Note 8)							NA
			SRAS/K611A	NO	NO	39047 SH. 14	RC02C	CB	36'6"	

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SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

Equipment ID No. : 2-RB-211A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		HS6002			32015 SH. 14	C06	CB	36'6"	NV

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SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-211B

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bidg.	Elev.	SAT. *
		HS6003			32015 SH. 15	C07R	CB	36'6"	NV

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NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-211C

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS6004			32015 SH. 35	C07R	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

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CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

Equipment ID No. : 2-RB-211D

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		HS6005			32015 SH. 41	C07R	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

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- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

Equipment ID No. : 2-RB-211E

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		HS6006			32015 SH. 40	C07R	CB	36'6"	NV

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NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

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Equipment ID No. : 2-RB-211F

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
	HS6007			32015 SH. 42	C07R	CB	36'6" NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

Equipment ID No. : 2-RB-240

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
		HS6118			32015 SH. 19	C07R	CB	36'6"	NV

A "≠" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

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SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-28.1A

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS6072			32015 SH. 26	CC1	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

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NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-28.1B

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	HS6073			32015 SH. 27	C01	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

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SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

Equipment ID No. : 2-RB-28.1C

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS6075			32015 SH 28	C01	CB	36'6"	NV

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NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-28.1D

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		HS6077			32015 SH. 29	C01	CB	36'6"	NV

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SWGR GERS - SWGR Screening based on EPRI-7148-SL

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CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

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Equipment ID No. : 2-RB-28.2A

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS6079			32015 SH 30	C01	CB	36'6"	NV

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NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-28.2B

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS6083			32015 SH. 32	C01	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-28.2C

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
		HS6087			32015 SH. 34	C01	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-28.2D

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	HS6091			32015 SH. 36	C01	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

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Equipment ID No. : 2-RB-28.3A

MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

ENERG

Rev.	Relay Mfg.& Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1			33/BO/ZS6080			32015 SH. 31	LOCAL	EB	-5'6"	NV
1	GE-HGA	12HGA11J52G	43X	NO	NO	32015 SH. 31	C01	CB	36'6"	CA
			HS6080			32015 SH. 31	C01	CB	36'6"	NV
			# RELAY CSAS (Note 6)							NA
			# RELAY SIAS (Note 7)							NA
1			SIAS/K524B	NO	NO/NC	39047 SH. 10	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-28.3B

DATE 12/12/95
REV. 0

		ENERG							
Rev.	Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
1			33/BO/ZS6034			32015 SH. 33	LOCAL	EB	-5'6" NV
#	GE-HGA	12HGA11J52G	43X	NO	NO	32015 SH. 33	C01	CB	36'6" CA
			HS6084			32015 SH. 33	C01	CB	36'6" NV
			# RELAY CSAS (Note 6)						NA
			# RELAY SIAS (Note 7)						NA
1			CS/K624B			39047 SH. 14	RC02C	CB	36'6" CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

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PAGE 94

Equipment ID No. : 2-RB-28.3C

MIL. STONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			33/BO/ZS6088			32015 SH. 35	LOCAL	EB	-5'6"	NV
1	GE-HGA	12HGA11J52G	43X	NO	NO	32015 SH. 35	C01	CB	36'6"	CA
			HS6088			32015 SH. 35	C01	CB	36'6"	NV
			# RELAY CSAS (Note 6)							NA
			# RELAY SIAS (Note 7)							NA
1			# SIAS/K524A	NO	NO/NC	39047 SH. 10	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No.: 2-RB-28.3D

DATE 12/12/95
REV. 0

		ENERG							
Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
1			33/BO/ZS6092			32015 SH. 37	LOCAL	EB	-5'6" NV
1	GE-HGA	12HGA11J52G	43λ	NO	NO	32015 SH. 37	C01	CB	36'6" CA
			HS6092			32015 SH. 37	C01	CB	36'6" NV
			# RELAY CSAS (Note 6)						NA
			# RELAY SIAS (Note 7)						NA
1			# SIAS/K624A	NO	NO	39047 SH. 14	RC02C	CB	36'6" CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

Equipment ID No. : 2-RB-30.1A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	42/C			32015 SH. 20	B5138	AB	14'6"	
	42/O			32015 SH. 20	B5138	AB	14'6"	CA
	HS6096			32015 SH. 20	C06	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

Equipment ID No. : 2-RB-30.1B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32015 SH 21	B6144	AB	14'6"	
	42/O			32015 SH 21	B6144	AB	14'6"	CA
	HS6095			32015 SH 21	C06	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

Equipment ID No. : 2-RB-37.2A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 98

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bidg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32015 SH. 24	B5137	AB	14'6"	
	42/O			32015 SH. 24	B5137	AB	14'6"	CA
	HS6108			32015 SH. 24	C06	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

Equipment ID No. : 2-RB-37.2B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32015 SH. 25	B6146	AB	14'6"	
	42/O			32015 SH. 25	B6146	AB	14'6"	CA
	HS6106			32015 SH. 25	C07	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

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CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

Equipment ID No. : 2-RB-4.1A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
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Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		HS6013			32015 SH. 16	C07R	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 101

Equipment ID No. : 2-RB-4.1B

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS6014			32015 SH. 17	C07R	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

Equipment ID No. : 2-RB-4.1C

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bidg.	Elev.	SAT. *
		HS6015			32015 SH. 43	C07R	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-4.1D

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		HS6016			32015 SH. 45	C07R	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-4.1E

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS6017			32015 SH. 44	C07R	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

Equipment ID No. : 2-RB-4.1F

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
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Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		HS6018			32015 SH. 46	C07R	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 106

Equipment ID No. : 2-RB-68.1A

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			33/BO/ZS6731			32015 SH. 8	LOCAL	AB	-45'6"	NV
	GE-HFA	12HFA51A42H42	43X			32015 SH. 8	C06X	CB	36'6"	CA
			HS6731			32015 SH. 8	C06	CB	36'6"	NV
			# RELAY CSAS (Note 6)							NA
			# RELAY SIAS (Note 7)							NA
			# SIAS/K524A	NO	NO/NC	39047 SH. 10	RC02B	CB	36'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RBCCW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-RB-68.1B

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bidg.	Elev.	SAT. *
1			33/BO/ZS6735			32015 SH. 9	LOCAL	AB	-45'6"	NV
	GE-HFA	12HFA51A42H42	43X			32015 SH. 9	C06X	CB	36'6"	CA
			HS6735			32015 SH. 9	C06	CB	36'6"	NV
			# RELAY CSAS (Note 6)							NA
			# RELAY SIAS (Note 7)							NA
			# SIAS/K624A	NO	NO	39047 SH. 14	RC02C	CB	36'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 108

Equipment ID No. : 2-RC-402

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bidg.	Elev.	SAT. *
				Y/N	NO/NC					
		CR106	42			32007 SH. 23	NPY402	AB	14'6"	
1	GE-HGA	12HGA11J52G	63XA	NO	NO	32007 SH. 24	C03R	CB	36'6"	
			HS1402A			32007 SH. 23	C70A	AB	36'6"	NV
			HS1402B			32007 SH. 23	C03F	CB	36'6"	NV
	GE-NGV	12NGV13A11A	# K	YES	NC	32007 SH. 24, 39069 SH. 22	RC05B	CB	36'6"	
			PL-103-1B			32007 SH. 23, 28500 SH. 75D	RC30A-1	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 109

Equipment ID No. : 2-RC-403

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32007 SH. 19	B5155	AB	14'6"	
	42/O			32007 SH. 19	B5155	AB	14'6"	
	HS1402			32007 SH. 19	C03	CB	36'6"	NV
	HS1403			32007 SH. 19	C03	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 110

Equipment ID No. : 2-RC-404

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
		CR106	42			32007 SH 24	NPY404	AB	14'6"	
1	GE-HFA	12HFA51A42H33	63XB	NO	NO	32007 SH 24	C03R	CB	36'6"	
			HS1404A			32007 SH 24	C70B	AB	36'6"	NV
			HS1404B			32007 SH 24	C03F	CB	36'6"	NV
	GE-NGV	12NGV13A11A	# K	YES	NC	32007 SH 24, 39069 SH 22	RC05B	CB	36'6"	
			PL-103B			32007 SH 24, 28500 SH 99D	RC30B-1	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

Equipment ID No. : 2-RC-405

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 111

DATE 12/12/95
REV. 0

Rev. Relay Mfg.& Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32007 SH. 20	B6120	AB	14'6"	
	42/O			32007 SH. 20	B6120	AB	14'6"	
	HS1404			32007 SH. 20	C03	CB	36'6"	NV
	HS1405			32007 SH. 20	C03	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 112

Equipment ID No. : 2-RC-406

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS406			32007 SH. 25	C03	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SI

Equipment ID No. : 2-SI-614

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 113

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		42/C			32008 SH. 12	B5111	AB	14'6"	CA
		42/O			32008 SH. 12	B5111	AB	14'6"	CA
GE-HFA	12HFA151A9H	43X			32008 SH. 12	C01	CB	36'6"	CA
		# 63X-1/P-103-1			32008 SH. 12	C03R	CB	36'6"	CA
		HS3614			32008 SH. 12	C01	CB	36'6"	NV
		HS3614-1			32008 SH. 12	C01	CB	36'6"	NV
		# RELAY SIAS (Note 7)							NA
1		SIAS1/K523B	NO	NO/NC	39C47 SH. 10	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: LPSI

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 114

Equipment ID No. : 2-SI-615

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	42/C			32008 SH 21	B5118	AB	14'6"	
	42/G			32008 SH 21	B5118	AB	14'6"	
	43X			32008 SH 21	C01R	CB	36'6"	CA
	HS3615			32008 SH 21	C01	CB	36'6"	NV
	SIAS			32008 SH 21	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CA - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SI

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 115

Equipment ID No. : 2-SI-624

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.		Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		42/C			32008 SH. 38	B5112	AB	14'6"	CA
		42/O			32008 SH. 38	B5112	AB	14'6"	CA
GE-HFA	12HFA151A9H	43X			32008 SH. 38	C01	CB	36'6"	CA
		# 63X-1/P-103-1			32008 SH. 38	C03R	CB	36'6"	CA
		HS3624			32008 SH. 38	C01	CB	36'6"	NV
		HS3624-1			32008 SH. 38	C01	CB	36'6"	NV
		# RELAY SIAS (Note 7)							NA
1		SIAS1/K523D	NO	NO/NC	32008 SH. 38, 39047 SH. 10	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: LPQI

Equipment ID No. : 2-SI-625

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 116

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32008 SH. 22	B5119	AB	14'6"	
	42/O			32008 SH. 22	B5119	AB	14'6"	
	43X			32008 SH. 22	C01R	CB	36'6"	CA
	HS3625			32008 SH. 22	C01	CB	36'6"	NV
	SIAS1			32008 SH. 22	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SI

Equipment ID No. : 2-SI-634

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 117

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
		42/C			32008 SH. 39	B6109	AB	14'6"	CA
		42/O			32008 SH. 39	B6109	AB	14'6"	CA
GE-HFA	12HFA151A9H	43X			32008 SH. 39	C01	CB	36'6"	CA
GE-HGA	12HGA11J70G	# 63X-1/P-103			32008 SH. 39	C03R	CB	36'6"	CA
		HS3634			32008 SH. 39	C01	CB	36'6"	NV
		HS3634-1			32008 SH. 39	C01	CB	36'6"	NV
		# RELAY SIAS (Note 7)							NA
1		SIAS2/K623B			39047 SH. 14, 32008 SH. 39	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: LPSI

Equipment ID No. : 2-SI-635

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 118

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32008 SH 23	B6116	AB	14'6"	
	42/O			32008 SH 23	B6116	AB	14'6"	
	43X			32008 SH 23	C01R	CB	36'6"	CA
	HS3635			32008 SH 23	C01	CB	36'6"	NV
	SIAS2			32008 SH 23	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SI

Equipment ID No. : 2-SI-644

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 119

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
		42/C			32008 SH. 40	B6110	AB	14'6"	CA
		42/O			32008 SH. 40	B6110	AB	14'6"	CA
GE-HFA	12HFA151A9H	43X			32008 SH. 40	C01	CB	36'6"	CA
GE-HGA	12HGA11J70G	# 63X-1/P-103			32008 SH. 40	C03R	CB	36'6"	CA
		HS3644			32008 SH. 40	C01	CB	36'6"	NV
		HS3644-1			32008 SH. 40	C01	CB	36'6"	NV
		# RELAY SIAS (Note 7)							NA
1		SIAS/K623C			32008 SH. 40, 39047 SH. 14	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: LPSI

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 120

Equipment ID No. : 2-SI-645

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32008 SH. 24	B6111	AB	14'6"	
	42/O			32008 SH. 24	B6111	AB	14'6"	
	43X			32008 SH. 24	C01R	CB	36'6"	CA
	HS3645			32008 SH. 24	C01	CB	36'6"	NV
	SIAS2			32008 SH. 24	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SI

Equipment ID No. : 2-SI-651

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 121

DATE 12/12/95

REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
		42/C			32008 SH. 11	B5110	AB	14'6"	CA
		42/O			32008 SH. 11	B5110	AB	14'6"	
GE-HGA	12HGA11J70G	# 63X-1/P-103-1			32008 SH. 11	C03R	CB	36'6"	CA
		HS3651			32008 SH. 11	C01	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SI

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 122

Equipment ID No. : 2-SI-652

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32008 SH. 33	B6119	AB	14'6"	CA
	42/O			32008 SH. 33	B6119	AB	14'6"	
	63X/P-103			32008 SH. 33	C03R	CB	36'6"	CA
	HS3652			32008 SH. 33	C01	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: LPSI

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 123

Equipment ID No. : 2-SI-657

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		HS3657			32008 SH 60	C01	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HPSI

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-SI-662

DATE 12/12/95
REV. 0

Rev. Relay Mfg.&Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42/C			32008 SH 10	B6118	AB	14'6"	CA
	42/O			32008 SH 10	B6118	AB	14'6"	
	HS3662			32008 SH 10	C01	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HPSI

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Equipment ID No. : 2-SI-663

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		42/C			32008 SH. 35	B5109	AB	14'6"	CA
		42/O			32008 SH. 35	B5109	AB	14'6"	
		HS3663			32008 SH. 35	C01	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

Equipment ID No. : 2-SW-102

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
# 43Y/1				32023 SH. 47	C80	CB	36'6"	CA
# 43Y/2				32023 SH. 47	C80	CB	36'6"	CA
# HS8846				32023 SH. 47	C80	CB	36'6"	NV
	HS8847			32023 SH. 47	C80	CB	36'6"	NV
	HS8848			32023 SH. 47	C80	CB	36'6"	NV
	HS8850			32023 SH. 47	C80	CB	36'6"	NV
	SIAS			32023 SH. 47	C80	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

Equipment ID No. : 2-SW-104

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 127

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
#	43Y/1			32023 SH. 48	C80	CB	36'6"	CA
#	43Y/2			32023 SH. 48	C80	CB	36'6"	CA
#	HS8853			32023 SH. 48	C80	CB	36'6"	NV
#	HS8854			32023 SH. 48	C80	CB	36'6"	NV
#	HS8855			32023 SH. 48	C80	CB	36'6"	NV
	HS8856			32023 SH. 48	C80	CB	36'6"	NV
	SIAS			32023 SH. 48	C80	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-SW-178A

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			33/AC			32023 SH 67	LOCAL	TB	31'6"	NV
1			33/BO/ZS6925			32023 SH 67	LOCAL	TB	31'5"	NV
			HS6925			32023 SH 67	C80	CB	36'6"	NV
			PS6925			32023 SH 67	LOCAL	TB	31'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 129

Equipment ID No. : 2-SW-178B

DATE 12/12/95
REV. 0

ENERG

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bidg.	Elev.	SAT. *
1			33/AC/ZS6927			32023 SH. 69	LOCAL	TB	54'6"	NV
1			33/BO/ZS6927			32023 SH. 69	LOCAL	TB	54'6"	NV
			HS6927			32023 SH. 69	C80	CB	36'6"	NV
			PS6927			32023 SH. 69	LOCAL	TB	54'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

Equipment ID No. : 2-SW-178C

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 130

DATE 12/12/95
REV. 0

Rev.#	Relay Mfg.&Type	Relay Model No.	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
1		33/AC/ZS6926			32023 SH 68	LOCAL	TB	54'6"	NV
1		33/BO/ZS6926			32023 SH 68	LOCAL	TB	54'6"	NV
		HS6926			32023 SH 68	C80	CB	36'6"	NV
		PS6926			32023 SH 68	LOCAL	TB	54'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

Equipment ID No. : 2-SW-231A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 131

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	HS6341			32013 SH 21	C06	CB	36'6"	NV
	# HSR(DG-A)			32013 SH 21	T040	AB	14'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-SW-231B

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	HS6342			32013 SH 22	C06	CB	36'6"	NV
	# HSR(DG-B)			32013 SH 22	T041	AB	14'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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Equipment ID No. : 2-SW-3.1A

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS6399			32013 SH. 10	C06	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

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Equipment ID No. : 2-SW-3.1B

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

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ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS6400			32013 SH. 18	C06	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

Equipment ID No. : 2-SW-3.2A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	43X			32013 SH. 20	C06X	CB	36'6"	CA
	HS6439			32013 SH. 20	C06	CB	36'6"	NV
	SIAS1			32013 SH. 20	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

Equipment ID No. : 2-SW-3.2B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	43X			32013 SH 19	C06X	CB	36'6"	CA
	HS6438			32013 SH 19	C06	CB	36'6"	NV
	SIAS2			32013 SH 19	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : 2-SW-8.1A

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
GE-HGA	12HGA111J2	43Y			32013 SH. 40	C06	CB	36'6"	CA
		# HS6307A/6308			32013 SH. 40	C06	CB	36'6"	NV
		SIAS/K523A			39047 SH. 10	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95
REV. 0 Reviewed by: JJB Date: 12/12/95
REV. 1 Prepared by: PC Date: 12/12/95
REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 138
DATE 12/12/95
REV. 0

Equipment ID No. : 2-SW-8.1B

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
GE-HGA	12HGA111J2	43Y			32013 SH. 41	C06	CB	36'6"	CA
GE-HGA	12HGA111J2	43Y			32013 SH. 43	C07R	CB	36'6"	CA
		# HS6306/6307B			32013 SH. 43	C07R	CB	36'6"	NV
		# HS6307A/6308			32013 SH. 41	C06	CB	36'6"	NV
		SIAS/K523D			39047 SH. 10	RC02B	CB	36'6"	CA
		SIAS/K623D			39047 SH. 14	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

Equipment ID No. : 2-SW-8.1C

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 139

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
GE-HGA	12HGA111J2	43Y			32013 SH. 42	C07R	CB	36'6"	CA
		# HS6306/6307B			32013 SH. 42	C07R	CB	36'6"	NV
		SIAS/K623A			39047 SH. 14	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

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Equipment ID No. : 2-SW-89A

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

Rev. Relay Mfg. Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bidg.	Elev.	SAT. *
		Y/N	NO/NC					
1	33/BC (Note 11)			32013 SH. 21	LOCAL	AB	14'6"	NV
	HS6389			32013 SH. 21	C06	CB	36'6"	NV
	# HSR(DG-A) (Note 11)			32013 SH. 21	T040	AB	14'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 141

Equipment ID No. : 2-SW-89B

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1		33/BC (Note 12)			32013 SH 22	LOCAL	AB	14'6"	NV
		HS6397			32013 SH 22	C06	CB	36'6"	NV
		# HSR(DG-B) (Note 12)			32013 SH 22	T041	AB	14'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

Equipment ID No. : 2-SW-90A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 142

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			2	NO	NO	32012 SH. 36	C58A	CW	14'6"	CA
			42			32013 SH. 36	C58A	CW	14'6"	CA
			49			32013 SH. 36	C58A	CW	14'6"	CA
			HSSS1			32013 SH. 36	C58A	CW	14'6"	NV
			PB1(DG-A)			32013 SH. 33	C58A	CW	14'6"	NV
1			PDC6475			32013 SH. 36	LOCAL	CW	14'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

Equipment ID No. : 2-SW-90B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 143

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
1	2	NO	NO	32013 SH. 38	C58B	CW	14'6"	CA
	42			32013 SH. 38	C58B	CW	14'6"	CA
	42/B5154			32013 SH. 39	B5154	AB	14'6"	CA
	42/B6136			32013 SH. 39	B6136	AB	14'6"	CA
	49			32013 SH. 38	C58B	CW	14'6"	CA
	# 52STA/24C-2T-2			32013 SH. 39	A305	TB	31'6"	NV
	# 52STA/24D-2T-2			32013 SH. 39	A408	TB	56'6"	NV
	HSSS2			32013 SH. 38	C58B	CW	14'6"	NV
	NL1B1			32013 SH. 39	B5154	AB	14'6"	NV
	NL1B2			32013 SH. 39	B6136	AB	14'6"	NV
	PB2			32013 SH. 38	C58B	CW	14'6"	NV
1	PDC6481			32013 SH. 38	PDC6481	CW	14'6"	CA
	TRIP PB			32013 SH. 39	NL1B1A	CW	14'6"	NV
	TRIP PB			32013 SH. 39	NL1B2A	CW	14'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

Equipment ID No. : 2-SW-90C

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
WILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 144

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1			2	NO	NO	32013 SH. 37	C58C	CW	14'6"	CA
			42			32013 SH. 37	C58C	CW	14'6"	CA
			49			32013 SH. 37	C58C	CW	14'6"	CA
			HSSS3			32013 SH. 37	C58C	CW	14'6"	NV
			PB3(DG-A)			32013 SH. 37	C58C	CW	14'6"	NV
1			PDC6488			32013 SH. 37	PDC6488	CW	14'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

Equipment ID No. : 2-SW-97A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 145

DATE 12/12/95
REV. 0

ENERG

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1			33/AC/ZS6489			32013 SH. 17	2-SW-97B	CW	14'6"	NV
	TEL	CLASS J	33X/HV6489			32013 SH. 16	C06R	CB	36'6"	CA
			HS6482			32013 SH. 16	C06	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: SW

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 146

Equipment ID No. : 2-SW-97B

DATE 12/12/95
REV. 0

ENERG

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1			33/AC/ZS6482			32013 SH. 16	2-SW-97A	CW	14'6"	NV
	TEL	CLASS J	33X/HV6482			32013 SH. 17	C06R	CB	36'6"	CA
			HS6489			32013 SH. 17	C06R	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	# 25CS			32002 SH. 1	C08	CB	36'6"	NV
	27/1-X1/24C(Note 17)			32002 SH. 1	A311A	TB	31'6"	CA
	27/1-X2/24C(Note 17)			32002 SH. 1	A311A	TB	31'6"	CA
	43			32002 SH. 1	A302	TB	31'6"	NV
	# 51(Note 17)			32002 SH. 1	A302	TB	31'6"	CA
	# 51GS(Note 17)			32002 SH. 1	A302	TB	31'6"	CA
	52b			32002 SH. 1	A302	TB	31'6"	CA
	52HH			32002 SH. 1	A302	TB	31'6"	NV
	# 52STA/24C-1T-2			32002 SH. 1	A304	TB	31'6"	NV
	# 52STA/2S3-24A-2			32002 SH. 1	A102	TB	31'6"	NV
1	52Y			30042 SH. A	A302	TB	31'6"	SWGR GERS
	62(Note 17)			32002 SH. 1	A302	TB	31'6"	CA
	83X/J13			32002 SH. 1	A302	TB	31'6"	CA
	83X1/15G-22S	NO	NO	32002 SH. 1	C07R	CB	36'6"	
	# 83XT			32002 SH. 1	C08R	CB	36'6"	CA
	83XT2/J13			32002 SH. 1	A302	TB	31'6"	CA
	86-1			32002 SH. 1	A304	TB	31'6"	CA
	86-2(Note 17)			32002 SH. 1	A302	TB	31'6"	CA
	86B-1X(Note 17)			32002 SH. 1	A302	TB	31'6"	CA
	CS-1			32002 SH. 1	A302	TB	31'6"	NV
	CS-2			32002 SH. 1	C08	CB	36'6"	NV
	K528A(Note 17)			32002 SH. 1	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 148

Equipment ID No. : A303

MILANSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bidg.	Elev.	SAT. *
				Y/N	NO/NC					
1	GE-HFA	12HFA151A2H	3	NO	NO	32002 SH 3	A303	TB	31'6"	SWGR GERS
1	GE-HFA	12HFA151A2H	3	NO	NC	32002 SH 3	A303	TB	31'6"	CA
1	GE-IAC	12IAC53B104A	50/51A	NO	NO	32002 SH 3	A303	TB	31'6"	
1	GE-IAC	12IAC53B104A	50/51B	NO	NO	32002 SH 3	A303	TB	31'6"	
1	GE-IAC	12IAC53B104A	50/51C	NO	NO	32002 SH 3	A303	TB	31'6"	
1	E-PJC	121PJC11AV1A	50GS	NO	NO	32002 SH 3	A303	TB	31'6"	
1			52/HH		NC	32002 SH 3	A303	TB	31'6"	NV
1			52Y	NO	NO/NC	30042 SH A	A303	TB	31'6"	CA
1			CS-1		NC	32002 SH 3	A303	TB	31'6"	NV
1			CS-2		NC	32002 SH 3	C08	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A304

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 149

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
	#	51(Note 17)			32002 SH.11	A304	TB	31'6"	CA
	#	51GS(Note 17)			32002 SH.11	A304	TB	31'6"	CA
		52b			32002 SH.11	A305	TB	31'6"	NV
		52HH			32002 SH.11	A304	TB	31'6"	NV
		52HH			32002 SH.11	A305	TB	31'6"	NV
	#	52STA/15G-12U-2			32002 SH.11	A312	TB	31'6"	NV
	#	52STA/21S3-24E-2			32002 SH.11	A505	TB	31'6"	NV
	#	52STA/22S3-24C-2			32002 SH.11	A302	TB	31'6"	NV
	#	52STA/23S3-24A-2			32002 SH.11	A102			NV
		83X			32002 SH.11	A304	TB	31'6"	CA
	#	86-1/22S3-24C-2(Note 17)			32002 SH.11	A302	TB	31'6"	CA
	#	86-2(Note 17)			32002 SH.11	A304	TB	31'6"	CA
		86/2S3-24A-2(Note 17)			32002 SH.11	A102			CA
		CS-1			32002 SH.11	A304	TB	31'6"	NV
		CC-2			32002 SH.11	C08	CB	36'6"	NV
		UV1C(Note 17)			32002 SH.11	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
	GE-PJC	121PJC11AV1A	# 50GS	NO	NO	32002 SH 15	A505	TB	31'6"	
1	GE-IAC	12IAC53A101A	# 51A	NO	NO	32002 SH 11	A304	TB	31'6"	
1	GE-IAC	12IAC53A101A	51A	NO	NO	32002 SH 13	A305	TB	31'6"	
1	GE-IAC	12IAC53A101A	# 51A	NO	NO	32002 SH 15	A505	TB	31'6"	
1	GE-IAC	12IAC53A101A	# 51B	NO	NO	32002 SH 11	A304	TB	31'6"	
1	GE-IAC	12IAC53A101A	51B	NO	NO	32002 SH 13	A305	TB	31'6"	
1	GE-IAC	12IAC53A101A	# 51B	NO	NO	32002 SH 15	A505	TB	31'6"	
1	GE-IAC	12IAC53A101A	# 51C	NO	NO	32002 SH 11	A304	TB	31'6"	
1	GE-IAC	12IAC53A101A	51C	NO	NO	32002 SH 13	A305	TB	31'6"	
1	GE-IAC	12IAC53A101A	# 51C	NO	NO	32002 SH 15	A505	TB	31'6"	
	GE-IAC	12IAC53A3A	# 51GS	NO	NO	32002 SH 11	A304	TB	31'6"	
	GE-IAC	12IAC53A3A	51GS	NO	NO	30044 SH 2	A305	TB	31'6"	
			52/HH			32002 SH 13	A305	TB	31'6"	NV
			# 52STA/15G-12U-2			32002 SH 13	A312	TB	31'6"	NV
			# 52STA/21S3-24E-2			32002 SH 13	A505	TB	31'6"	NV
			# 52STA/22S3-24C-2			32002 SH 13	A302	TB	31'6"	NV
			# 52STA/24C-1T-2			32002 SH 13	A304	TB	31'6"	NV
			# 52STA/24D-2T-2			32002 SH 13	A408	TB	56'6"	NV
1			52Y			30042 SH A	A305	TB	31'6"	SWGR GERS
1	TEL	CLASS J	83X	NO	NC	32002 SH 13	A305	TB	31'6"	SWGR GERS
1	GE-HFA	12HFA151A261	86	NO	NO	32002 SH 13	A305	TB	31'6"	SWGR GERS
1	GE-HFA	HFA51A	# 86-1/21S3-24E-2	NO	NO	32002 SH 13	A505	TB	31'6"	SWGR GERS
1	GE-HFA	12HFA151A2H	# 86-1/22S3-24C-2 (Note 13)	NO	NO	32002 SH 1	A302	TB	31'6"	SWGR GERS
1	GE-HFA	12HFA151A26	86-1/24C-1T-2	NO	NO	32002 SH 13	A304	TB	31'6"	SWGR GERS
	GE-HFA	12HFA151A26	# 86-2	NO	NO	32002 SH 11	A304	TB	31'6"	
	GE-HFA	HFA51A	# 86-2	NO	NO	32002 SH 15	A505	TB	31'6"	
1	GE-HEA	HEA61B	86/15G-12U-2 (Note 14)	NO	NO	32041 SH 1	A312	TB	31'6"	SWGR GERS

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A305

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 151

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
GE-HGA	HGA11W	86X	NO	NO	32002 SH. 13	A305	TB	31'6"	
		CS-1			32002 SH. 13	A305	TB	31'6"	NV
		CS-2			32002 SH. 13	C08	CB	36'6"	NV
		CS-2/A304			32002 SH. 11	A304	TB	31'6"	NV
		# CS-2/A505			32002 SH. 15	A505	TB	31'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1	GE-HFA	12HFA151A2H	3	NO	NC	32013 SH. 5	A306	TB	31'6"	CA
1	GE-HFA	12HFA151A2H	3	NO	NC	32013 SH. 5	A306	TB	31'6"	SWGR GERS
1	GE-HFA	12HFA151A2H	3	NO	NO	32013 SH. 5	A306	TB	31'6"	SWGR GERS
1	GE-HFA	12HFA51A42H42	43X	NO	NC	32013 SH. 5	C06X	CB	36'6"	CA
1			43X	NO	NO	32013 SH. 5	C06X	CB	36'6"	CA
1	GE-IAC	12IAC66K8A	50/51A	NO	NO	32013 SH. 5	A306	TB	31'6"	
1	GE-IAC	12IAC66K8A	50/51B	NO	NO	32013 SH. 5	A306	TB	31'6"	
1	GE-IAC	12IAC66K8A	50/51C	NO	NO	32013 SH. 5	A306	TB	31'6"	
	GE-PJC	121PJC11AV1A	50GS	NO	NO	32013 SH. 5	A306	TB	31'6"	
1			52/HH		NC	32013 SH. 5	A306	TB	31'6"	NV
1			52Y	NO	NO/NC	30042 SH. A	A306	TB	31'6"	CA
1			CS-1		NO	32013 SH. 5	A306	TB	31'6"	NV
1			HS6477		NC	32013 SH. 5	C06	CB	36'6"	NV
			# LD SHED/K529A	NO	NO	39047 SH. 11	RC02B	CB	36'6"	
			SIAS1/SEQ.1/K515C	NO	NO	32013 SH. 5, 39047 SH. 9	RC02B	CB	36'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 153
DATE 12/12/95
REV. 0

Equipment ID No. : A307

ENERG

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1	GE-HFA	12HFA151A2H	3	NO	NC	32012 SH. 11	A307	TB	31'6"	CA
1	GE-HFA	12HFA151A2H	3	NO	NO	32012 SH. 11	A307	TB	31'6"	SWGR GERS
1	GE-HFA	12HFA151A2H	3	NO	NO	32012 SH. 11	A307	TB	31'6"	SWGR GERS
1	GE-IAC	12IAC66K8A	50/51A	NO	NO	30044 SH. 3	A307	TE	31'6"	
1	GE-IAC	12IAC66K8A	50/51B	NO	NO	30044 SH. 3	A307	TB	31'6"	
1	GE-IAC	12IAC66K8A	50/51C	NO	NO	30044 SH. 3	A307	TB	31'6"	
	GE-PJC	121PJC11AV1A	50GS	NO	NO	32012 SH. 11, 30044 SH. 3	A307	TB	31'6"	
			52/HH			32012 SH. 11	A307	TB	31'6"	NV
1			52Y			30042 SH. A	A307	TB	31'6"	SWGR GERS
		#	86Z1A			32012 SH. 11	C05	CB	36'6"	CA
			HS5287A			32012 SH. 11	C05	CB	36'6"	NV
			HS5287B			32012 SH. 11	C21	AB	38'6"	NV
			K534I	NO	NO	32012 SH. 11	RC02B	CB	36'6"	
			K534L	NO	NO	32012 SH. 11	RC02B	CB	36'6"	
			TS			32012 SH. 11	A307	TB	31'6"	NV
			UV1C/K529B	NO	NO	39047 SH. 11	RC02B	CB	36'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A308

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 154

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	3			32008 SH.1	A308	TB	31'6"	CA
	43X			32008 SH.1	C01	CB	36'6"	CA
	50/51			32008 SH.1	A308	TB	31'6"	CA
	50GS			32008 SH.1	A308	TB	31'6"	CA
	52/HH			32008 SH.1	A308	TB	31'6"	NV
	52X/22S3-24C-2			32008 SH.1	A302	TB	31'6"	CA
1	52Y			30041 SH.A	A308	TB	31'6"	SWGR GERS
	HS3014			32008 SH.1	C01	CB	36'6"	NV
	# RELAY CSAS (Note 6)							NA
	# RELAY SIAS (Note 7)							NA
	SIAS1/K514A	NO	NO	32008 SH.1	RC02B	CB	36'6"	
	TS			32008 SH.1	A308	TB	31'6"	NV
	UV1C			32008 SH.1	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A309

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
 MILLSTONE POINT UNIT 2
 DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 155

DATE 12/12/95
 REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *	
		Y/N	NO/NC						
GE-HFA 12HFA51A42H33	3			32008 SH. 4	A309	TB	31'6"	CA	
	43X			32008 SH. 4	C01	CB	36'6"	CA	
	43X-1			32008 SH. 4	A309	TB	31'6"	CA	
GE-IAC 12IAC66K8A	50/51			32008 SH. 4	A309	TB	31'6"	CA	
GE-PJC 121PJC11AV1A	50GS			32008 SH. 4	A309	TB	31'6"	CA	
	52-X/22S3-24C-2			39047 SH. 10	A302	TB	31'6"	CA	
	52/HH			30042 SH. A	A309	TB	31'6"	NV	
	52Y			30042 SH. A	A309	TB	31'6"	SWGR GERS	
	HS3017			32008 SH. 4	C01	CB	36'6"	NV	
# LD SHED/K529A		NO	NO	39047 SH. 5	RC023	CB	36'6"	CA	
# RELAY CSAS (Note 6)								NA	
# RELAY SIAS (Note 7)								NA	
	SIAS1/K517A		NO	NO	32008 SH. 4	RC02B	CB	36'6"	
1	SRAS1/K512A		NO	NO/NC	32008 SH. 4	RC02B	CB	36'6"	CA
	TS			39047 SH. 10	A309	TB	31'6"	NV	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A311

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 156

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
GE-HFA	HFA51A4233	3			32015 SH. 1	A311	TB	31'6"	CA
GE-HFA	12HFA51A42H42	43X			32015 SH. 1	C06X	CB	36'6"	CA
GE-IAC	12IAC66K8A	50/51			32015 SH. 1	A311	TB	31'6"	CA
GE-PJC	121PJC11AV1A	50GS			32015 SH. 1	A311	TB	31'6"	CA
		52/HH			30042 SH. A	A311	TB	31'6"	NV
1		52Y			30042 SH. A	A311	TB	31'6"	SWGR GERS
AGASTAT	7012PBW	63T/TDC			32015 SH. 1	A311	TB	31'6"	CA
		HS6119A			32015 SH. 1	C06	CB	36'6"	NV
1		# LD SHED/K529A	NO	NO	39047 SH. 3	RC02B	CB	36'6"	CA
		PS6119A			32015 SH. :	PS6119A	AB	-25'6"	CA
		SIAS1/SEQ. 2	NO	NO	32015 SH. 1	RC02B	CB	36'6"	
		TS			32015 SH. 1	A311	TB	31'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

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System: ELEC AC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : A312

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1	GE-IJS	IJS52D1A	25/SC	NO	NO	32041 SH. 1	A311A	TB	31'6"	SWGR GERS
			# 25CS			32041 SH. 1	C38	CB	36'6"	NV
			25NCS			32041 SH. 1	C38	AB	14'6"	NV
1	GE-IAV	12IAV55CIA	27/B	NO	NC	32041 SH. 1	A311A	TB	31'6"	SWGR GERS
1	GE-IAV	12IAV55CIA	27/L	NO	NO/NC	32041 SH. 1	A311A	TB	31'6"	SWGR GERS
1	GE-HFA	12HFA151A2H	3/OPERATE	NO	NO	32041 SH. 1	A312	TB	31'6"	CA
	GE-ICW	12ICW51A2A	32	NO	NO	32041 SH. 1	A312	TB	31'6"	
	GE-HEA	12HEA63C238	# 43-1(DG-A)	Y/N	NO/NC	32041 SH. 1	C38	AB	14'6"	
			# 43-MSS(DG-A)			32041 SH. 1	C08	CB	36'6"	NV
	GE-PJC	12PJC11X3A	50	NO	NO	32041 SH. 1	A311A	TB	31'6"	
	GE-PJC	12PJC11AV	50GS	NO	NO	32041 SH. 1	A312	TB	31'6"	
	GE-IAC	IAC53A	# 51	NO	NO	32002 SH. 1	A302	TB	31'6"	
	GE-IAC	IAC53A	# 51GS	NO	NO	32002 SH. 1	A302	TB	31'6"	
	GE-IJCV	12IJCV52A9A	51V	NO	NO	32041 SH. 1	A312	TB	31'6"	
1			52/AUX SW			30042 SH. A	A312	TB	31'6"	NV
			52/HH			32041 SH. 1	A312	TB	31'6"	NV
			# 52STA/21S3-24E-2			32041 SH. 1	A505	TB	31'6"	NV
			# 52STA/22S3-24C-2			32041 SH. 1	A302	TB	31'6"	NV
			# 52STA/24C-1T-2			32041 SH. 1	A304	TB	31'6"	NV
1			52Y			30042 SH. A, 39004 SH. 29	A312	TB	31'6"	SWGR GERS
	GE-NGV	12NGV22A1A	59	NO	NO	32041 SH. 1	C38	AB	14'6"	
	ITE		# 5X	NO	NO	32041 SH. 1	T040	AB	14'6"	
			75			39004 SH. 28	A312	TB	31'6"	NV
			75CS			39004 SH. 28	A312	TB	31'6"	NV
1	GE-CFF	12CFF12AG3A	81	NO	NO	32041 SH. 1	A312	TB	31'6"	SWGR GERS
1	GE-CFF	12CFF12AG3A	81/X	NO	NO	32041 SH. 1	A312	TB	31'6"	SWGR GERS
	GE-HEA	HEA61B	86	NO	NO	32041 SH. 1	A312	TB	31'6"	

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* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL.
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95
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 REV. 1 Prepared by: PC Date: 12/12/95
 REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A312

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 158

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
GE-HFA	12HFA151A2H	86-2/22S3-24C2	NO	NO	32041 SH. 1	A302	TB	31'6"	
		BUS A3 LD SHED	NO	NO	32041 SH. 1	RC02B	CB	36'6"	
		CS-1			32041 SH. 1	A312	TB	31'6"	NV
		CS-2			32041 SH. 1	C08	CB	36'6"	NV
		CS-3			32041 SH. 1	C38	AB	14'6"	NV
ITE	#	HSR(DG-A)	NO	NO	32041 SH. 1	T040	AB	14'6"	
	#	OPS(DG-A)			32041 SH. 4	T040	AB	14'6"	
	#	PB100(DG-A)			32041 SH. 1	C38	AB	14'6"	NV
ITE	#	SDR (A) (Note 1)	NO	NO	32041 SH. 1	T040	AB	14'6"	
	#	SSW (810)(DG-A)			32041 SH. 4	T040	AB	14'6"	
		TS			32041 SH. 1	A312	TB	31'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1	GE-IJS	12IJS52D1A	25/SC	NO	NO	32041 SH. 2	A401A	TB	56'6"	SWGR GERS
			# 25CS			32041 SH. 2	C08	CB	36'6"	NV
			25NCS			32041 SH. 2	C39	AB	14'6"	NV
1	GE-IJS	IJS52	27/B	NO	NO	32041 SH. 2	A401A	TB	56'6"	SWGR GERS
1	GE-IJS	IJS52	27/L	NO	NO	32041 SH. 2	A401A	TB	56'6"	SWGR GERS
1			3/OPERATE	NO	NO	32041 SH. 2	A401	TB	56'6"	CA
	GE-ICW	12ICW51A2A	32	NO	NO	32041 SH. 2	A401	TB	56'6"	
	GE-HEA	12HEA63C238	# 43-1(DG-B)	Y/N	NO/NC	32041 SH. 2	C39	AB	14'6"	
			# 43-MSS(DG-B)			32041 SH. 2	C08	CB	36'6"	NV
	GE-PJC	12PJC11X3A	50	NO	NO	32041 SH. 2	A401	TB	56'6"	
	GE-PJC	12PJC11AV1A	50GS	NO	NO	32041 SH. 2	A401	TB	56'6"	
	GE-IAC	12IAC53A101A	# 51	NO	NO	32002 SH. 2	A411	TB	56'6"	
	GE-IAC	IAC53A	# 51GS	NO	NO	32002 SH. 2	A411	TB	56'6"	
	GE-IJCV	12IJCV52A9A	51V	NO	NO	32041 SH. 2	A401	TB	56'6"	
1			52/AUX SW			32041 SH. 2	A401	TB	56'6"	NV
			52/HH			32041 SH. 2	A401	TB	56'6"	NV
			# 52STA/21S3-24E-2			32041 SH. 2	A505	TB	31'6"	NV
			# 52STA/22S3-24D-2			32041 SH. 2	A411	TB	56'6"	NV
			# 52STA/24D-1T-2			32041 SH. 2	A410	TB	56'6"	NV
1			52Y			30042 SH. A	A401	TB	56'6"	SWGR GERS
	GE-NGV	12NGV22A1A	59	NO	NO	32041 SH. 2	C39	AB	14'6"	
			# 5X	NO	NO	32041 SH. 2	T041	AB	14'6"	
1	GE-CFF	12CFF12A63A	81	NO	NO	32041 SH. 2	A401	TB	56'6"	SWGR GERS
1			81/X	NO	NO	32041 SH. 2	A401	TB	56'6"	SWGR GERS
	GE-HEA	HEA61B	86	NO	NO	30041 SH. 2	A401	TB	56'6"	
	GE-HFA	12HFA151A2H	86-2/22S3-24D-2	NO	NO	32041 SH. 2	A411	TB	56'6"	
			BUS A4 LD SHED	NO	NO	32041 SH. 2	RC02C	CB	36'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A401

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 160

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	CS-1			32041 SH 2	A401	TB	56'6"	NV
	CS-2			32041 SH 2	C08	CB	36'6"	NV
	CS-2/A411			32002 SH 2	C08	CB	36'6"	NV
	CS-3			32041 SH 2	C39	AB	14'6"	NV
	# HSR(DG-B)	NO	NO	32041 SH 2	T041	AB	14'6"	
	# OPS(DG-B)			32041 SH 2	T041	AB	14'6"	
	# PB100(DG-B)			32041 SH 2	C39	AB	14'6"	NV
	# SDR (B) (Note 2)	NO	NO	32041 SH 2	T041	AB	14'6"	
	# SSW (810)(DG-B)			32041 SH 2	T041	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

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Equipment ID No. : A402

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
	GE-HFA	12HFA151A2H	3			32015 SH. 3	A402	TB	56'6"	CA
	GE-HFA	12HFA51A42H42	43X			32015 SH. 3	C06X	CB	36'6"	CA
	GE-IAC	12IAC66K8A	50/51			32015 SH. 3	A402	TB	56'6"	CA
	GE-PJC	12PJC11AV1A	50GS			32015 SH. 3	A402	TB	56'6"	CA
			52/HH			32015 SH. 3	A402	TB	56'6"	NV
1			52Y			30042 SH. A	A402	TB	56'6"	SWGR GERS
	AGASTAT	7012C002	63T/TDC			32015 SH. 3	A402	TB	56'6"	CA
			HS6119C			32015 SH. 3	C06	CB	36'6"	NV
1		#	LD SHED/K629A	NO	NO	32015 SH. 3, 39047 SH. 15	RC02C	CB	36'6"	CA
			PS6119C			32015 SH. 3	PS6119C	AB	-25'6"	CA
			SIAS2/SEQ. 2	NO	NO	32015 SH. 3	RC02C	CB	36'6"	
			TS			32015 SH. 3	A402	TB	56'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A403

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 162

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	3			32008 SH 2	A403	TB	56'6"	CA
	43X			32008 SH 2	C01	CB	36'6"	CA
	50/51			32008 SH 2	A403	TB	56'6"	CA
	50GS			32008 SH 2	A403	TB	56'6"	CA
	52/HH			32008 SH 2	A403	TB	56'6"	NV
	# 52X/22S3-24D-2			32008 SH 2	A411	TB	56'6"	CA
1	52Y			30042 SH A	A403	TB	56'6"	SWGR GERS
	HS3016			32008 SH 2	C01	CB	36'6"	NV
	# RELAY CSAS (Note 6)							NA
	# RELAY SIAS (Note 7)							NA
	SIAS-2/K614A	NO	NO	32008 SH 2	RC02C	CB	36'6"	
	TS			32008 SH 2	A403	TB	56'6"	NV
	UV2C			32008 SH 2	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A404

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT ?
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 163

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	CAT. *
	GE-HFA	12HFA151A2H	3			32008 SH. 5	A404	TB	56'6"	CA
			43X			32008 SH. 5	C01	CB	36'6"	CA
			43X-1			32008 SH. 5	A404	TB	56'6"	CA
	GE-IAC	12IAC66K15A	50/51			32008 SH. 5	A404	TB	56'6"	CA
	GE-PJC	12PJC11AV1A	50GS			32008 SH. 5	A404	TB	56'6"	CA
			52/HH			32008 SH. 5	A404	TB	56'6"	NV
			# 52X/22S3-24D-2			32008 SH. 5	A411	TB	56'6"	CA
1			52Y			30042 SH. A	A404	TB	56'6"	SWGR GERS
			HS3018			32008 SH. 5	C01	CB	36'6"	NV
			# LD SHED/K629A			39047 SH. 15	RC02C	CB	36'6"	CA
			# RELAY CSAS (Note 6)							NA
			# RELAY SIAS (Note 7)							NA
			SIAS2/K634F	NO	NO/NC	39047 SH. 15	RC02C	CB	36'6"	
1			SRAS2/K617A	NO	NO	39047 SH. 13	RC02C	CB	36'6"	CA
			TS			32008 SH. 5	A404	TB	56'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A406

US! A-45 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 164

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.& Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT.*
				Y/N	NO/NC					
1	GE-HFA	12HFA151A2H	3	NO	NC	32012 SH. 12	A406	TB	56'6"	CA
1	GE-HFA	12HFA151A2H	3	NO	NC	32012 SH. 12	A406	TB	56'6"	SWGR GERS
1	GE-HFA	12HFA151A2H	3	NO	NO	32012 SH. 12	A406	TB	56'6"	SWGR GERS
1	GE-IAC	12IAC66K8A	50/51A	NO	NO	30044 SH. 8	A406	TB	56'6"	
1	GE-IAC	12IAC66K8A	50/51B	NO	NO	30044 SH. 8	A406	TB	56'6"	
1	GE-IAC	12IAC66K8A	50/51C	NO	NO	30044 SH. 8	A406	TB	56'6"	
	GE-PJC	12PJC11AV1A	50GS	NO	NO	32012 SH. 12, 30044 SH. 8	A406	TB	56'6"	
			52/HH			32012 SH. 12	A406	TB	56'6"	NV
1			52Y			30042 SH. A	A406	TB	56'6"	SWGR GERS
		#	86Z2A			32012 SH. 12	C05	CB	36'6"	CA
			HS5288A			32012 SH. 12	C05	CB	36'6"	NV
			HS5288B			32012 SH. 12	C21	AB	38'6"	NV
			K634L	NO	NO	32012 SH. 12	RC02C	CB	36'6"	
			K634M	NO	NO	32012 SH. 12	RC02C	CB	36'6"	
			TS			32012 SH. 12	A406	TB	56'6"	NV
			UV2C/K629B	NO	NO	32012 SH. 12, 39047 SH. 15	RC02C	CB	36'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 165

Equipment ID No. : A407

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1	GE-HFA	12HFA151A2H	3	NO	NC	32013 SH. 7	A407	TB	56'6"	CA
1	GE-HFA	12HFA151A2H	3	NO	NO	32013 SH. 7	A407	TB	56'6"	SWGR GERS
1	GE-HFA	12HFA151A2H	3	NO	NO	32013 SH. 7	A407	TB	56'6"	SWGR GERS
1	GE-HFA	12HFA51A42H42	43X	NO	NO/NC	32013 SH. 7	C06X	CB	36'6"	CA
1	GE-IAC	12IAC66K8A	50/51A	NO	NO	30044 SH. 8	A407	TB	56'6"	
1	GE-IAC	12IAC66K8A	50/51B	NO	NO	30044 SH. 8	A407	TB	56'6"	
1	GE-IAC	12IAC66K8A	50/51C	NO	NO	30044 SH. 8	A407	TB	56'6"	
	GE-PJC	12PJC11AV1A	50GS	NO	NO	30044 SH. 8	A407	TB	56'6"	
1			52/HH		NC	32013 SH. 7	A407	TB	56'6"	NV
1			52Y	NO	NO/NC	30044 SH. A	A407	TB	56'6"	CA
1			CS-1		NO	32013 SH. 7	A407	TB	56'6"	NV
1			HS6491		NC	32013 SH. 7	C06	CB	36'6"	NV
	#	LD SHED/K629A		NO	NO	39047 SH. 15	RC02C	CB	36'6"	
		SIAS2/SEQ.1/K615C		NO	NO	32013 SH. 7	RC02C	CB	36'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A408

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 166

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
	GE-PJC	121PJC11AV1A	# 50GS	NO	NO	32002 SH. 15	A505	TB	31'6"	
1	GE-IAC	12IAC53A101A	51A	NO	NO	32002 SH. 14	A408	TB	56'6"	
1	GE-IAC	12IAC53A101A	# 51A	NO	NO	32002 SH. 15	A505	TB	31'6"	
1	GE-IAC	12IAC53A101A	# 51A	NO	NO	32002 SH. 12	A410	TB	56'6"	
1	GE-IAC	12IAC53A101A	51B	NO	NO	32002 SH. 14	A408	TB	56'6"	
1	GE-IAC	12IAC53A101A	# 51B	NO	NO	32002 SH. 15	A505	TB	31'6"	
1	GE-IAC	12IAC53A101A	# 51B	NO	NO	32002 SH. 12	A410	TB	56'6"	
1	GE-IAC	12IAC53A101A	51C	NO	NO	32002 SH. 14	A408	TB	56'6"	
1	GE-IAC	12IAC53A101A	# 51C	NO	NO	32002 SH. 15	A505	TB	31'6"	
1	GE-IAC	12IAC53A101A	# 51C	NO	NO	32002 SH. 12	A410	TB	56'6"	
	GE-IAC	12IAC53A3A	51GS	NO	NO	30044 SH. 9	A408	TB	56'6"	
	GE-IAC	12IAC53A3A	# 51GS	NO	NO	32002 SH. 12	A410	TB	56'6"	
			52/HH			32002 SH. 14	A408	TB	56'6"	NV
			# 52STA/15G-13U-2			32002 SH. 14	A401	TB	56'6"	NV
			# 52STA/21S3-24E-2			32002 SH. 14	A505	TB	31'6"	NV
			# 52STA/22S3-24D-2			32002 SH. 14	A411	TB	56'6"	NV
			# 52STA/24C-2T-2			32002 SH. 14	A305	TB	31'6"	NV
			# 52STA/24D-1T-2			32002 SH. 14	A410	TB	56'6"	NV
1			52Y			30042 SH. A	A408	TB	56'6"	SWGR GERS
1	TEL	CLASS J	83X	NO	NC	32002 SH. 14	A408	TB	56'6"	SWGR GERS
	GE-HFA	12HFA151A2H	86	NO	NC	32002 SH. 14	A408	TB	56'6"	
	GE-HFA	HFA51A	# 86-1/21S3-24E-2	NO	NO	32002 SH. 15	A505	TB	31'6"	
	GE-HFA	12HFA151A2H	# 86-1/22S3-24D-2 (Note 16)	NO	NO	32002 SH. 2	A411	TB	56'6"	
	GE-HFA	12HFA151A2H	86-1/24D-1T-2	NO	NO	32002 SH. 12	A410	TB	56'6"	
	GE-HFA	HFA51A	# 86-2	NO	NC	32002 SH. 15	A505	TB	31'6"	
	GE-HFA	12HFA151A2H	# 86-2	NO	NO	32002 SH. 12	A410	TB	56'6"	
	GE-HEA	HEA61B	86/15G-13U-2 (Note 15)	NO	NO/NC	32041 SH. 2	A401	TB	56'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 167

Equipment ID No. : A408

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
GE-HGA	HGA11W	86X	NO	NO	32002 SH. 14	A408	TB	56'6"	
		CS-1			32002 SH. 14	A408	TB	56'6"	NV
		CS-2			32002 SH. 14	C08	CB	36'6"	NV
		CS-2/A410			32002 SH. 12	A410	TB	56'6"	NV
		# CS-2/A505			32002 SH. 15	A505	TB	31'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GLRS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A409

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 168

DATE 12/12/95
REV. 0

ENERG

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1	GE-HFA	12HFA151A2H	3	NO	NC	32002 SH. 10	A409	TB	56'6"	CA
1	GE-HFA	12HFA151A2H	3	YES	NO	32002 SH. 10	A409	TB	56'6"	SWGR GERS
1	GE-HFA	12HFA151A2H	3	YES	NO	32002 SH. 10	A409	TB	56'6"	SWGR GERS
1	GE-IAC	12IAC53B104A	50/51A	NO	NO	30044 SH. 9	A409	TB	56'6"	
1	GE-IAC	12IAC53B104A	50/51B	NO	NO	30044 SH. 9	A409	TB	56'6"	
1	GE-IAC	12IAC53B104A	50/51C	NO	NO	30044 SH. 9	A409	TB	56'6"	
	GE-PJC	12PJC11AV1A	50GS	NO	NO	30044 SH. 9	A409	TB	56'6"	
			52/HH			32002 SH. 10	A409	TB	56'6"	NV
1			52Y	NO	NO/NC	30042 SH. A	A409	TB	56'6"	CA
			CS-1			32002 SH. 10	A409	TB	56'6"	NV
			CS-2			32002 SH. 10	C08	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A410

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 169

DATE 12/12/95

REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
# 51(Note 17)				32002 SH.12	A410	TB	56'6"	CA
# 51GS(Note 17)				32002 SH.12	A410	TB	56'6"	CA
	52b			32002 SH.12	A408	TB	56'6"	NV
	52HH			32002 SH.12	A410	TB	56'6"	NV
	52HH			32002 SH.12	A408	TB	56'6"	NV
# 52STA/15G-13U-2				32002 SH.12	A401	TB	56'6"	NV
# 52STA/22S3-24D-2				32002 SH.12	A411	TB	56'6"	NV
# 52STA/2S3-24B-2				32002 SH.12	A206			NV
	83X			32002 SH.12	A410	TB	56'6"	CA
# 86-1/22S3-24D-1(Note 17)				32002 SH.12	A411	TB	56'6"	CA
# 86-2(Note 17)				32002 SH.12	A410	TB	56'6"	CA
	86/2S3-24B-2(Note 17)			32002 SH.12	A206			CA
	CS-1			32002 SH.12	A410	TB	56'6"	NV
	CS-2			32002 SH.12	C08	CB	36'6"	NV
	UV2C(Note 17)			32002 SH.12	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

		ENERG								
Rev.	Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			# 25CS			32002 SH. 2	C08	CB	36'6"	NV
	GE-HFA	HFA51A42	27/1-X1/24D(Note 17)			32002 SH. 12	A401A	TB	56'6"	CA
	GE-HFA	HFA51A42	27/1-X2/24D(Note 17)			32002 SH. 12	A401A	TB	56'6"	CA
			43	NO	NO	32002 SH. 2	A411	TB	56'6"	NV
	GE-IAC	12IAC53A101A	# 51(Note 17)			30044 SH. 10	A411	TB	56'6"	CA
	GE-IAC	IAC53A	# 51GS(Note 17)			30044 SH. 10	A411	TB	56'6"	CA
			52/HH			32002 SH. 2	A411	TB	56'6"	NV
			52b			32002 SH. 2	A411	TB	56'6"	NV
			# 52STA/24D-1T-2			32002 SH. 2	A410	TB	56'6"	NV
			# 52STA/2S3-24B-2			32002 SH. 2	A206	TB	56'6"	NV
1			52Y			30042 SH. A	A411	TB	56'6"	SWGR GERS
	AGASTAT	2422PA	62(Note 17)			32002 SH. 2	A411	TB	56'6"	CA
			83X/J13			32002 SH. 2	A411	TB	56'6"	CA
	GE-HLA	11B12A	83X2/15G-22S	NO	NO	32002 SH. 2	C07R	CB	36'6"	
			# 83XT			32002 SH. 2	C08R	CB	36'6"	CA
			83XT2/J13			32002 SH. 2	A411	TB	56'6"	CA
			86-1	NO	NC	32002 SH. 12	A410	TB	56'6"	CA
	GE-HFA	HFA51A42	86-2(Note 17)			32002 SH. 2	A411	TB	56'6"	CA
	GE-HGA	12HGA11J52	86B-2X			32002 SH. 2	A411	TB	56'6"	CA
			CS-1			32002 SH. 2	A411	TB	56'6"	NV
			CS-2			32002 SH. 2	C08	CB	36'6"	NV
			K628A(Note 17)			39047 SH. 15	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 171

Equipment ID No. : A502

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1	GE-HFA	HFA51A	3	NO	NC	32013 SH. 6	A502	TB	31'6"	CA
1	GE-HFA	HFA51A	3	NO	NO	32013 SH. 6	A502	TB	31'6"	SWGR GERS
1	GE-HFA	HFA51A	3	NO	NO	32013 SH. 6	A502	TB	31'6"	SWGR GERS
1	GE-HFA	12HFA51A42H42	43X	NO	NO/NC	32013 SH. 6	C06X	CB	36'6"	CA
1	GE-IAC	12IAC66K8A	50/51A	NO	NO	30044 SH. 11	A502	TB	31'6"	
1	GE-IAC	12IAC66K8A	50/51B	NO	NO	30044 SH. 11	A502	TB	31'6"	
1	GE-IAC	12IAC66K8A	50/51C	NO	NO	30044 SH. 11	A502	TB	31'6"	
	GE-PJC	121PJC11AV1A	50GS	NO	NO	32013 SH. 6	A502	TB	31'6"	
			52/HH			32013 SH. 6	A502	TB	31'6"	NV
1			52Y			30042 SH. A	A502	TB	31'6"	SWGR GERS
			CS			32013 SH. 6	A502	TB	31'6"	NV
			HS6484			32013 SH. 6	C06	CB	36'6"	NV
			KS651B	NO	NO	39047 SH. 25	RC02E	AB	36'6"	
			# LD SHED/KS631A	NO	NO	39047 SH. 16	RC02E	AB	36'6"	
			SIAS5/SEQ.1/K634D	NO	NO	39047 SH. 15	RC02E	AB	36'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : A503

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 172

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
GE-HFA	12HFA51A42H33	3	NO	NO/NC	32008 SH. 3	A503	TB	31'6"	CA
		43X			32008 SH. 3	C01	CB	36'6"	CA
GE-IAC	12IAC66K8A	50/51	NO	NO	30044 SH. 11	A503	TB	31'6"	CA
		50GS			32008 SH. 3	A503	TB	31'6"	CA
		52HH			32008 SH. 3	A503	TB	31'6"	NV
		52X/21S3-24E-2			32008 SH. 3	A505	TB	31'6"	CA
		52Y			30042 SH. A	A503	TB	31'6"	SWGR GERS
1		HS3015			32008 SH. 3	C01	CB	36'6"	NV
		# LD SHED/KS531A/KS631A			39047 SH. 8	RC02E	AB	36'6"	CA
		SIAS5/SEQ1/K514B	NO	NO	39047 SH. 9	RC02B	CB	36'6"	
		SIAS5/SEQ1/K614B	NO	NO	39047 SH. 13	RC02C	CB	36'6"	
		TS			32008 SH. 3	A503	TB	31'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
	GE-HFA	HFA51A42H33	3			32015 SH. 2	A504	TB	31'6"	CA
	GE-HFA	12HFA51A42H42	43X			32015 SH. 2	C06X	CB	36'6"	CA
	GE-IAC	12IAC3FK8A	50/51			30044 SH. 11	A504	TB	31'6"	CA
	GE-PJC	121PJC11AV1A	50GS			30044 SH. 11	A504	TB	31'6"	CA
			52/HH			32015 SH. 2	A504	TB	31'6"	NV
1			52Y			30042 SH. A	A504	TB	31'6"	SWGR GERS
	AGASTAT	7012PBW	63T/TDC			32015 SH. 2	A504	TB	31'6"	CA
			HS6119B			32015 SH. 2	C06	CB	36'6"	NV
1			LD SHED/K531A	NO	NO	39047 SH. 11	RC02B	CB	36'6"	CA
1			LD SHED/K631A	NO	NO	39047 SH. 15	RC02C	CB	36'6"	CA
1			# LD SHED/KS531A	NO	NO	39047 SH. 16	RC02E	AB	36'6"	CA
1			# LD SHED/KS631A	NO	NO	39047 SH. 16	RC02E	AB	36'6"	CA
			PS6119B			32015 SH. 2	PS6119B	AB	-25'6"	CA
			SIAS5/SEQ2/K516B	NO	NO	39047 SH. 9	RC02B	CB	36'6"	
			SIAS5/SEQ2/KS516B	NO	NO	39047 SH. 16	RC02E	AB	36'6"	
			TS			32015 SH. 2	A504	TB	31'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : B0502

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bidg.	Elev. SAT. *
		Y/N	NO/NC				
	52			32002 SH. B	B0502	AB	36'6"
	52b/24C1-2			32002 SH. 28	A303	TB	31'6" NV
	52HH/24C1-2			32002 SH. 28	A303	TB	31'6" NV
	CS-1			32002 SH. 28	B0502	AB	36'6" NV
	CS-2			32002 SH. 28	C08	CB	36'6" NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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Equipment ID No. : B0503

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	52			32003 SH 29	B0503	AB	36'6"	CA
	PB/T			32003 SH 29	B0503	AB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : B0504

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			52			32003 SH. B, 30052 SH. 2	B0504	AB	36"	CA
			52Y			32003 SH. B, 30052 SH. 2	B0504	AB	36"	CA
	GE-HGA	12HGA11J52	# 63X/LC-110XL			32007 SH. 57	C03R	CB	36"	CA
	GE-HGA	12HGA11J986	# 63X/LC-110YL			32007 SH. 57	C03R	CB	36"	CA
	GE-HFA	12HFA151A9H	63XA/LC110L			32007 SH. 5	C03R	CB	36"	CA
			HS-100-3			32007 SH. 57	C03F	CB	36"	NV
			HS100-1			32007 SH. 5	C03	CB	36"	NV
1			# LL-110X-1A			32007 SH. 57, 28500 SH. 69B	RC31A	CB	36"	CA
1			# LL-110Y-1A			32007 SH. 57, 28500 SH. 69B	RC31A	CB	36"	CA
			PB			32007 SH. 5	B0504	AB	36"	NV
			PB/CL			32007 SH. 5	B0504	AB	36"	NV
1			UV1C/LD SHED/K529B	NO	NO	32007 SH. 5, 39047 SH. 11	RC02B	CB	36"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : B0506

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
		Y/N	NO/NC				
	2HCR	NO	NO	32003 SH. 31	DC1	AB	14'6"
	52			32003 SH. B	B0506	AB	36'6"
	PB/T			32003 SH. 31	B0506	AB	36'6" NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : B0507

USI A-46 RELAY SCREEN'ING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	52			32003 SH. B	B0507	AB	36'6"	
	PB/T			32003 SH. 32	B0507	AB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

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Equipment ID No. : B0508

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	52			32003 SH 33	B0508	AB	36'6"	CA
	PB/T			32003 SH 33	B0508	AB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : B0510

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
	52			32003 SH 34	B0510	AB	36'6" CA
	PB/T			32003 SH 34	B0510	AB	36'6" NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : B0603

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	52			32003 SH 44	B0603	AB	36'6"	CA
	PB/T			32003 SH 44	B0603	AB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

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Equipment ID No. : B0605

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	52			32003 SH 43	B0605	AB	36'6"	CA
	PB/T			32003 SH 43	B0605	AB	36'6"	NV

A # indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : B0606

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	52			32003 SH B	B0606	AB	36'6"	
	PB/T			32003 SH 42	B0606	AB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : B0607

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	2HCR	NO	NO	32003 SH. 41	DC2	AB	14'6"	
	52			32003 SH. 8	B0607	AB	36'6"	
	PB/T			32003 SH. 41	B0607	AB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

Equipment ID No. : B0609

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			52			32003 SH. B, 30052 SH. 4	B0609	AB	36'6"	CA
			52Y			32003 SH. B, 30052 SH. 4	B0609	AB	36'6"	CA
	GE-HGA	12HGA11J52	# 63X/LC-110XL			32007 SH. 57	C03R	CB	36'6"	CA
	GE-HGA	12HGA11J986	# 63X/LC-110YL			32007 SH. 57	C03R	CB	36'6"	CA
	GE-HFA	12HFA151A2H	63XB/LC-110L			32007 SH. 10	C03R	CB	36'6"	CA
			HS100-2			32007 SH. 10	C03	CB	36'6"	NV
			HS100-3			32007 SH. 57	C03F	CB	36'6"	NV
1			# LL-110X-1A			28500 SH. 69B, 32007 SH. 57	RC31A	CB	36'6"	CA
1			# LL-110Y-1A			28500 SH. 69B, 32007 SH. 57	RC31B	CB	36'6"	CA
			PB			32007 SH. 10	B0609	AB	36'6"	NV
			PB/CL			32007 SH. 10	B0609	AB	36'6"	NV
1			UV2C/LD SHED/K629A	NO	NO	32007 SH. 10, 39047 SH. 15	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
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Equipment ID No. : B0610

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG			Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC	Ref. Drawings(s)				
	52			32003 SH. B	B0610	AB	36'6"	
	PB/T			32003 SH. 39	B0610	AB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: ELEC AC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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Equipment ID No. : B0611

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	52			32003 SH. B	B0611	AB	36'6"	
	52/B/24D7-2			32003 SH. 38	A409	TB	56'6"	NV
	52HH/24D7-2			32003 SH. 38	A409	TB	56'6"	NV
	CS-1			32003 SH. 38	B0611	AB	36'6"	NV
	CS-2			32003 SH. 38	C08	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : F112A

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42			32021 SH. 1	B5217	AB	38'6"	
	49			32021 SH. 1	B5217	AB	38'6"	
	HS8149			32021 SH. 1	LOCAL	AB	14'6"	NV
	SEQ. 0(A)			32021 SH. 1	RC02B	CB	36'6"	CA
	SEQ. 4(A)			32021 SH. 1	RC02B	CB	36'6"	CA
	SIAS1			32021 SH. 1	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : F112B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42			32021 SH 2	B6223	AB	36'6"	
	49			32021 SH 2	B6223	AB	36'6"	
	HS8148			32021 SH 2	LOCAL	AB	14'6"	NV
	SEQ. 0(B)			32021 SH 2	RC02C	CB	36'6"	CA
	SEQ. 4(B)			32021 SH 2	RC02C	CB	36'6"	CA
	SIAS2			32021 SH 2	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : F133

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 190

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
GE-HGA	12HGA11J98G	3X-2 (Note 18)			32023 SH. 70	C80	CB	36'6"	CA
		42 (Note 18)			32023 SH. 70	B6162	AB	14'6"	CA
		49 (Note 18)			32023 SH. 70	B6162	AB	14'6"	CA
		HS8844			32023 SH. 70	C80	CB	36'6"	NV
PYROTONIC SYS ZIU-6 PCB		O. SMOKE DET (Note 18)			32023 SH. 70	C26	CB	36'6"	CA
		SEQ. 4(A)			32023 SH. 70	RC02C	CB	36'6"	CA
		TS8844 (Note 18)			32023 SH. 70	LOCAL	TB	56'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : F134

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
GE-HGA 12HGA11J98G	# 3X-1 (Note 18)			32023 SH 71	C80	CB	36'6"	CA
	42 (Note 18)			32023 SH 71	B5163	AB	14'6"	CA
	49 (Note 18)			32023 SH 71	B5163	AB	14'6"	CA
	HS8849			32023 SH 71	C80	CB	36'6"	NV
PYROTONIC SYS ZIU-6 PCB	O.SMOKE DET (Note 18)			32023 SH 71	C26	CB	36'6"	CA
	SEQ. 4(B)			32023 SH 71	RC02B	CB	36'6"	CA
	TS8849 (Note 18)			32023 SH 71	LOCAL	CB	45'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : F142

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42 (Note 18)			32023 SH. 80	B6243	AB	36'6"	CA
	49 (Note 18)			32023 SH. 80	B6243	AB	36'6"	CA
GE-HGA 12HGA11J70G	# 5/MF52 (Note 18)			32023 SH. 80	C80	CB	36'6"	CA
	HS2142			32023 SH. 80	C80	CB	36'6"	NV
	SEQ. 0/K634I (Note 18)			39047 SH. 15	RC02C	CB	36'6"	CA
	TS8843 (Note 18)			32023 SH. 80	C80	CB	36'6"	CA
PYROTONIC SYS ZIU-6 PCB	ZONE 28 O-SMOKE (Note 18)			32023 SH. 43	C26	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : F15A

DATE 12/12/95
REV. 0

		ENERG						
Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
		3T1			32022 SH. 89	B5139	AB	14'6" CA
AGASTAT	7012AD	3T2	NO	NO	32022 SH. 17, 89	B5139	AB	14'6"
		42			32022 SH. 17	B5139	AB	14'6"
		42A			32022 SH. 89	B5139	AB	14'6" CA
AGASTAT	E7022AB002	42T/TDO	YES	NO	32022 SH. 17, 89	B5139	AB	14'6"
		43X			32022 SH. 17	C01	CB	36'6" CA
		49			32022 SH. 17	B5139	AB	14'6"
		49A			32022 SH. 89	B5139	AB	14'6"
		HS8314			32022 SH. 17	C01	CB	36'6" NV
		PB			32022 SH. 17	B5139	AB	14'6" NV
		SIAS1/SEQ4			32022 SH. 17	RC02B	CB	36'6" CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : F15B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT.*
		Y/N	NO/NC					
	3T1			32022 SH. 90	B6145	AB	14'6"	CA
AGASTAT 7012AD	3T2	NO	NO	32022 SH. 18, 90	E6145	AB	14'6"	
	42			32022 SH. 18	B6145	AB	14'6"	
	42A			32022 SH. 90	B6145	AB	14'6"	CA
AGASTAT E7022AB002	42T/TDO	YES	NO	32022 SH. 18, 90	B6145	AB	14'6"	
	43X			32022 SH. 18	C01	CB	36'6"	CA
	49			32022 SH. 18	B6145	AB	14'6"	
	49A			32022 SH. 90	B6145	AB	14'6"	
	HS8315			32022 SH. 18	C01	CB	36'6"	NV
	PB			32022 SH. 18	B6145A	AB	14'6"	NV
	SIAS2/SEQ.4			32022 SH. 18	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

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Equipment ID No. : F21A

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	# 3X-1/J10 (Note 18)			32023 SH. 37	C25A	CB	36'6"	CA
	# 3X/J10 (Note 18)			32023 SH. 1, 37	C25A	CB	36'6"	CA
	# 42 (Note 18)			32023 SH. 1	B5214	AB	38'6"	CA
	# 45X/J10			32023 SH. 37	C25A	CB	36'6"	CA
	# 49 (Note 18)			32023 SH. 1	B5214	AB	38'6"	CA
PYROTONIC SYS ZIU-6 PCB	# AS8362 (Note 18)			32023 SH. 37	C26	CB	36'6"	CA
	# HS8004A			32023 SH. 37	C25A	CB	36'6"	NV
	# HS8009			32023 SH. 1	C25A	CB	36'6"	NV
	SEQ. 0/K508C			39047 SH. 10	RC02B	CB	36'6"	CA
	SEQ. 4/K513C			39047 SH. 10	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

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Equipment ID No. : F21B

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	# 3X-1/J10 (Note 18)			32023 SH. 2, 39A	C25B	CB	36'6"	CA
	# 3X/J10 (Note 18)			32023 SH. 2, 39A	C25B	CB	36'6"	CA
	42 (Note 18)			32023 SH. 2	B6234	AB	36'6"	CA
	# 45X			32023 SH. 39A	C25B	CB	36'6"	CA
	# 49 (Note 18)			32023 SH. 2	B6234	AB	36'6"	CA
PYROTONIC SYS ZIU-6 PCB	# AS8358 (Note 18)			32023 SH. 2	C26	CB	36'6"	CA
	HS8004B			32023 SH. 39A	C25B	CB	36'6"	NV
	# HS8010			32023 SH. 2	C25B	CB	36'6"	NV
	# SEQ. 0/K634B (Note 18)			32023 SH. 2, 39047 SH. 15	RC02C	CB	36'6"	CA
	# SEQ. 4/K634H (Note 18)			32023 SH. 2, 39047 SH. 15	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
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DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID: F22A

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
			42			32023 SH. 53	B5218	AB	38'6"	CA
			# 42/MF21A			32023 SH. 1, 53	B5214	AB	38'6"	CA
			42/MF36A			32023 SH. 55	B5209	AB	38'6"	CA
			49			32023 SH. 53	B5218	AB	38'6"	CA
	GE-HGA	12HCA11J70G	# 90T			32023 SH. 53	X42A	AB	36'6"	CA
	GE	CR120A04022AA	# 90TX			32023 SH. 53	X42A	AB	36'6"	CA
			# HS9779			32023 SH. 53	X42A	AB	36'6"	NV
1			# M1	NO	NO	32023 SH. 53	C25A	CB	36'6"	CA
			MTR THERM			32023 SH. 53	LOCAL	AB	36'6"	CA
1			OPC(X169A)			32023 SH. 53	X42A	AB	36'6"	CA
1			RPC			32023 SH. 53	X42A	AB	36'6"	CA
1			# TS9779			32023 SH. 53	LOCAL	AB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : F22B

DATE 12/12/95
REV. 0

		ENERG							
Rev.	Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
			42			32023 SH. 54	X42B	AB	36'6" CA
			# 42/MF21B			32023 SH. 2	B6234	AB	36'6" CA
			42/MF36S			32023 SH. 56	B6232	AB	36'6" CA
			49			32023 SH. 54	X42P	AB	36'6" CA
	GE-HGA	12HGA11J70G	# 90T			32023 SH. 54	X42B	AB	36'6" CA
	GE	CR120A04022AA	# 90TX			32023 SH. 54	X42B	AB	36'6" CA
			# HS9780			32023 SH. 54	X42B	AB	36'6" NV
1			# M1	NO	NO	32023 SH. 54	C25B	CB	36'6" CA
			MTR THERM			32023 SH. 54	LOCAL	AB	36'6" CA
1			OPC(X169B)			32023 SH. 54	X42B	AB	36'6" CA
1			RPC			32023 SH. 54	X42B	AB	36'6" CA
1			# TS9780			32023 SH. 54	LOCAL	AB	36'6" CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : F31A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 199

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
# 42				32023 SH. 3	B5211	AB	38'6"	
# 49				32023 SH. 3	B5211	AB	38'6"	
# HS8001				32023 SH. 3	C25A	CB	36'6"	NV
# SEQ. 0/K534C		NO	NC	32023 SH. 3, 39047 SH. 11	RC02B	CB	36'6"	
# SEQ. 4/K534G				32023 SH. 3, 39047 SH. 11	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-S1.

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : F31B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
# 42				32023 SH. 4	B6228	AB	36'6"	
# 49				32023 SH. 4	B6228	AB	36'6"	
# HS8000				32023 SH. 4	C25B	CB	36'6"	NV
# SEQ. 0/K634C		NO	NC	32023 SH. 4, 39047 SH. 15	RC02C	CB	36'6"	
# SEQ. 4/K634G				32023 SH. 4, 39047 SH. 15	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

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Equipment ID No. : F36A

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			42			32023 SH. 2	B5209	AB	38'6"	CA
			# 42/MF21A			32023 SH. 1	B5214	AB	38'6"	CA
			49			32023 SH. 2	B5209	AB	38'6"	CA
	GE-HGA	12HGA11J70G	# 90T			32023 SH. 53	X42A	AB	36'6"	CA
	GE	CR120A04022AA	# 90TX			32023 SH. 2, 53	X42A	AB	36'6"	CA
			# HS9779			32023 SH. 53	X42A	AB	36'6"	NV
1			# M1	NO	NO	32023 SH. 53	C25A	CB	36'6"	CA
1			# TS9779			32023 SH. 53	LOCAL	AB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : F36B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

		ENERG							
Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
			42			32023 SH. 56	B6232	AB	36'6" CA
			# 42/MF21B			32023 SH. 2, 56	B6234	AB	36'6" CA
			49			32023 SH. 56	B6232	AB	36'6" CA
	GE-HGA	12HGA11J70G	# 90T			32023 SH. 54	X42B	AB	36'6" CA
	GE	CR120A04022AA	# 90TX			32023 SH. 54, 56	X42B	AB	36'6" CA
			# HS9780			32023 SH. 54	X42B	AB	36'6" NV
1			# M1	NO	NO	32023 SH. 54	C25B	CB	36'6" CA
1			# TS9780			32023 SH. 54	LOCAL	AB	36'6" CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : F38A

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42			32023 SH. 7	B5140	AB	14'6"	
	49			32023 SH. 7	B5140	AB	14'6"	
	HS8296			32023 SH. 7	LOCAL	AB	14'6"	NV
	# LSR(DG-A)			32023 SH. 7	T040	AB	14'6"	CA
	PB			32023 SH. 7	B5140	AB	14'6"	NV
	SEQ. 0(A)			32023 SH. 7	RC02B	CB	36'6"	CA
	SEQ. 4(A)			32023 SH. 7	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : F38B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 204

DATE 12/12/95
REV. 0

Rev. Relay Mfg.&Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42			32023 SH. 8	B6147	AB	14'6"	
	49			32023 SH. 8	B6147	AB	14'6"	
	HS8298			32023 SH. 8	LOCAL	AB	14'6"	NV
#	LSR(DG-B)			32023 SH. 8	T041	AB	14'6"	CA
	PB			32023 SH. 8	B6147	AB	14'6"	NV
	SEQ. 0(B)			32023 SH. 8	RC02C	CB	36'6"	CA
	SEQ. 4(B)			32023 SH. 8	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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System: HVAC

Equipment ID No. : F51

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
GE-HGA	12HGA11J70G	# 3X-1 (Note 18)		32023 SH. 42	C80	CB	36'6"	CA
		42 (Note 18)		32023 SH. 42	B5160	AB	14'6"	CA
		49 (Note 18)		32023 SH. 42	B5160	AB	14'6"	CA
		HS8842		32023 SH. 42	C80	CB	36'6"	NV
		SEQ. 0(A)		32023 SH. 42	RC02B	CB	36'6"	CA
		SEQ. 4(A)		32023 SH. 42	RC02B	CB	36'6"	CA
PYROTONIC SY	ZIU-6 PCB	SMOKE DET (Note 18)		32023 SH. 71	C26	CB	36'6"	CA
		TS8842 (Note 18)		32023 SH. 42	LOCAL	AB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : F52

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 206

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		42 (Note 18)			32023 SH. 43	B6154	AB	14'6"	CA
		42/MF142 (Note 18)			32023 SH. 43	B6243	AB	36'6"	CA
		49 (Note 18)			32023 SH. 43	96154	AB	14'6"	CA
GE-HGA	12HGA11J70G	# 5/MF52 (Note 18)			32023 SH. 43	C80	CB	36'6"	CA
		HS8843			32023 SH. 43	C80	CB	36'6"	NV
PYROTONIC SYS	ZIU-6 PCB	O-SMOKE (Note 18)			32023 SH. 43	C26	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SV/GR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : F54A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42			32021 SH. 19	B5161	AB	14'6"	
	49			32021 SH. 19	B5161	AB	14'6"	
	HS8871			32021 SH. 19	C80	CB	36'6"	NV
	SIAS/SEQ4			32021 SH. 19	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : F54B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 208

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	42			32021 SH. 20	B6159	AB	14'6"	
	49			32021 SH. 20	B6159	AB	14'6"	
	HS8872			32021 SH. 20	C80	CB	36'6"	NV
	SIAS/SEQ4			32021 SH. 20	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: DG

Equipment ID No. : H7A

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
		# 4(DG-A)			32041 SH. 3 & 4	T040	AB	14'6"	
GE-HEA	12HEA63C238	# 43-1(DG-A)	Y/N	NO/NC	32041 SH. 3	C38	AB	14'6"	
		# 43-MSS(DG-A)			32041 SH. 3	C08	CB	36'6"	NV
		# 43-MSS3(DG-A)			32041 SH. 3	C38	AB	14'6"	NV
ITE	CLASS J	# 43-MSSX(DG-A)			32041 SH. 3	C38	AB	14'6"	
		# 43-VRMS			32041 SH. 11	C08	CB	36'6"	NV
AGASTAT	2422PE	# 5(DG-A)	Y/N	NO/NC	32041 SH. 4	T040	AB	14'6"	
		5A			32041 SH. 4 & 10	T040	AB	14'6"	
ITE		# 5X			32041 SH. 4	T040	AB	14'6"	
		# CS-65			32041 SH. 9	C08	CB	36'6"	NV
		CS-65A			32041 SH. 9	C38	AB	14'6"	NV
		CS70			32041 SH. 11	C08	CB	36'6"	NV
		CS70A			32041 SH. 11	C38	AB	14'6"	NV
		CS90			32041 SH. 11	C08	CB	36'6"	NV
		CS90A			32041 SH. 11	C38	AB	14'6"	NV
		# DGH7A			32041 SH. 3	C08	CB	36'6"	NV
ITE		# ESS(DG-A)			32041 SH. 6	T040	AB	14'6"	
ITE		# HSR(DG-A)	NC	NO	32041 SH. 3	T040	AB	14'6"	
		# LP1/K530A			32041 SH. 6	RC02B	CB	36'6"	
ITE		# LSR(DG-A)			32041 SH. 3	T040	AB	14'6"	
		PB-10			32041 SH. 10	T040	AB	14'6"	NV
		PB-100			32041 SH. 3	C38	AB	14'6"	NV
		PB-13			32041 SH. 10	T040	AB	14'6"	NV
		# PB1(DG-A)			32041 SH. 4	T040	AB	14'6"	NV
		PB12			32041 SH. 10	C38	AB	14'6"	NV
		# PB15(DG-A)			32041 SH. 3	C38	AB	14'6"	NV
ITE		# SDR (A) (Note 1)	NO	NO	32041 SH. 3	T040	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Check acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: DG

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 210

Equipment ID No. : H7A

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NC/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
ITE		# SFR(DG-A)			32041 SH. 3	T040	AB	14'6"
		# SSW (250)(DG-A)			32041 SH. 4	T040	AB	14'6"
AGASTAT	E7022PD002	# TD1(DG-A)	Y/N	NO/NC	32041 SH. 3	T040	AB	14'6"
ITE		TD1X			32041 SH. 3	T040	AB	14'6"
AGASTAT	2422DB	# TD3(DG-A)	Y/N	NO	32041 SH. 3	C38	AB	14'6"
AGASTAT	2422PB	# TD4(DG-A)	Y/N	NO	32041 SH. 3	C38	AB	14'6"
AGASTAT	E7022PB002	# TD6(DG-A)	Y/N	NC	32041 SH. 3	T040	AB	14'6"

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: DG

Equipment ID No. : H7B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
		# 4(DG-B)			32041 SH. 15, 16	T041	AB	14'6"	
GE-HEA	12HEA63C238	# 43-1(DG-B)	Y/N	NO/NC	32041 SH. 15	C39	AB	14'6"	
		# 43-MSS(DG-B)			32041 SH. 15	C08	CB	36'6"	NV
		# 43-MSS3(DG-B)			32041 SH. 15	C39	AB	14'6"	NV
		# 43-MSSX(DG-B)			32041 SH. 15	C39	AB	14'6"	
		# 43-VRMS			32041 SH. 23	C08	CB	36'6"	NV
AGASTAT	2422PE	# 5(DG-B)	Y/N	NO/NC	32041 SH. 16	T041	AB	14'6"	
		5A			32041 SH. 16, 22	T041	AB	14'6"	
		# 5X			32041 SH. 16	T041	AB	14'6"	
		C70			32041 SH. 23	C08	CB	36'6"	NV
		C70A			32041 SH. 23	C39	AB	14'6"	NV
		C90			32041 SH. 23	C08	CB	36'6"	NV
		C90A			32041 SH. 23	C39	AB	14'6"	NV
		# CS-65			32041 SH. 21	C08	CB	36'6"	NV
		CS-65A			32041 SH. 21	C39	AB	14'6"	NV
		# DGH7B			32041 SH. 15	C08	CB	36'6"	NV
		# ESS(DG-B)			32041 SH. 16	T041	AB	14'6"	
		# HSR(DG-B)	NO	NO	32041 SH. 15 & 16	T041	AB	14'6"	
		# LPII/K630A			39047 SH. 15	RC02C	CB	33'6"	
		# LSR(DG-B)			32041 SH. 15 & 16	T041	AB	14'6"	
		# OPS(DG-B)			32041 SH. 16	T041	AB	14'6"	
		# PB1(DG-B)			32041 SH. 16	T041	AB	14'6"	NV
		# PB100(DG-B)			32041 SH. 15	C39	AB	14'6"	NV
		PB12			32041 SH. 22	C39	AB	14'6"	NV
		# PB15(DG-B)			32041 SH. 15	C39	AB	14'6"	NV
		# PB3(DG-B)			32041 SH. 17	T041	AB	14'6"	NV
		# SDR (B) (Note 2)	NO	NO	32041 SH. 15 & 16	T041	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: DG

Equipment ID No. : H7B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 212

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
		# SFR(DG-B)			32041 SH. 15	T041	AB	14'6"	
		# SSW (250)(DG-B)			32041 SH. 16	T041	AB	14'6"	
AGASTAT	2422PC	# TD1(DG-B)	Y/N	NO/NC	32041 SH. 15	T041	AB	14'6"	
		TD1X			32041 SH. 15	T041	AB	14'6"	
AGASTAT	2422PB	# TD3(DG-B)	Y/N	NO	32041 SH 15 & 16	C39	AB	14'6"	
AGASTAT	E7022PC002	# TD4(DG-B)	Y/N	NO	32041 SH 15 & 16	C39	AB	14'6"	
AGASTAT	7022PA	# TD6(DG-B)	Y/N	NC	32041 SH 15 & 16	T041	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

Equipment ID No. : LI-103

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH.18				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 214

Equipment ID No. : LI-103-1

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH 59				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

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Equipment ID No. : LI-1113A

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bidg.	Elev. SAT. *
		None			28500 SH 370			NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 216

Equipment ID No. : LI-1113B

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH 371				NA

A. "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

Equipment ID No. : LI-1113C

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 372				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 218

Equipment ID No. : LI-1113D

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH 373				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : LI-1123A

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH.380				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

Equipment ID No. : LI-1123B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 381				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Equipment ID No. : LI-1123C

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 382				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

Equipment ID No. : LI-1123D

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH.383				NA

A "# indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: BA

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 223

Equipment ID No. : LI-206

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH 200				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: BA

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

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Equipment ID No. : LI-208

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay	Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			None			28500 SH 203				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Contact acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

Equipment ID No. : LI-3001

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH 400				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blk * - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

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Equipment ID No. : LI-3002

MILLSTONE POINT UNIT *

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg.&Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Eiev.	SAT. *
	None			28500 SH 401				NA

A "*" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

Equipment ID No. : LI-3003

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 402				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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DATE 12/12/95
REV. 0

Equipment ID No. : LI-3004

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH.403				NA

A "K" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95
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 REV. 1 Reviewed by: CB Date: 12/12/95

System: COND

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 229
DATE 12/12/95
REV. 0

Equipment ID No. : LI-5282

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 600				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7149-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: COND

Equipment ID No. : LI-5282-1

USI A-4th RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 600				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

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Equipment ID No. : P122A

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings (s)	Panel	Bldg.	Elev.	SAT. *
	# 42			32023 SH. 44	B5224	AB	38'6"	
	49			32023 SH. 44	B5224	AB	38'6"	
	# HS8845			32023 SH. 44	C80	CB	36'6"	NV
	# SIAS/K635A			32023 SH. 44, 39047 SH. 10	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EFR1-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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System: HVAC

Equipment ID No. : P122B

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

MILLSTONE POINT UNIT 2

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95

REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	# 42				32023 SH. 45	B6238	AB	36'6"	
	49				32023 SH. 45	B6238	AB	36'6"	
	# HS8852				32023 SH. 45	C80	CB	36'6"	NV
	# SIAS/K635B				32023 SH. 45, 39047 SH. 14	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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System: CVCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No.: P18A

DATE 12/12/95
REV. 0

ENERG

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT *
			42			32009 SH. 40	B5103	AB	14'6"	CA
			43-1			32009 SH. 40	C02R	CB	36'6"	CA
	CE-HFA	12HFA154B49H	# 43-2			32009 SH. 40	C02R	CB	36'6"	CA
			43Y			32009 SH. 40	C01R	CB	36'6"	CA
			49			32009 SH. 40	B5103	AB	14'6"	CA
	TEL		# 63X			32009 SH. 40	C02R	CB	36'6"	CA
	CE-HGA	12HGA11J98G	63X/CH.1			32009 SH. 40	C03R	CB	36'6"	CA
			HS2003A			32009 SH. 40	C02	CB	36'6"	NV
			HS2003B			32009 SH. 40	C21	AB	38'6"	NV
1			PC224X			32009 SH. 40	LOCAL	AB	-25'6"	CA
1			# SEQ. 0/K534B	NO	NO/NC	39047 SH. 11	RC02B	CB	36'6"	CA
			SIAS1/SEQ. 2/K516A			39047 SH. 09	RC02B	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

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System: CVCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 234

Equipment ID No.: P18B

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
	GE-HFA	12HFA151A9H	3-1			32009 SH 41	C02R	CB	36'6"	CA
	GE-HFA	12HFA51A62H42	3-2			32009 SH 42	C02R	CB	36'6"	CA
			42			32009 SH 42	B5105	AB	14'6"	CA
			42			32009 SH 42	B6105	AB	14'6"	CA
	GE-HFA	12HFA151A9H	42X-1			32009 SH 41	C02R	CB	36'6"	CA
	GE-HFA	12HFA151A9H	42X-2			32009 SH 41	C02R	CB	36'6"	CA
	GE-HGA	12HGA11J98G	42X-3			32009 SH 41	C02R	CB	36'6"	CA
	GE-HGA	12HGA11J98G	42X-4			32009 SH 42A	C02R	CB	36'6"	CA
1			42X-7			32009 SH 41	LOCAL	AB	-25'6"	CA
1			42X-8			32009 SH 41	LOCAL	AB	-25'6"	CA
			43-1			32009 SH 41	C02	CB	36'6"	CA
	GE-HFA	12HFA154B49H	# 43-2			32009 SH 41	C02R	CB	36'6"	CA
			43Y			32009 SH 41	C02R	CB	36'6"	CA
			49			32009 SH 42	B5105	AB	14'6"	CA
			49			32009 SH 42A	B6105	AB	14'6"	CA
1			5-1/SEQ. 0	NO	NO/NC	39047 SH 15	C01X	CB	36'6"	CA
1			5-2/SEQ. 0	NO	NO/NC	32009 SH 41	C01X	CB	36'6"	CA
1			# 63X	NO	NC	32009 SH 41	C02R	CB	36'6"	CA
1			63X/CH. 5	NO	NC	32009 SH 41	C03R	CB	36'6"	CA
			89			32009 SH 41	LOCAL	AB	-25'6"	NV
			89			32009 SH 42A	LOCAL	AB	-25'6"	NV
			HS2004A			32009 SH 41	C02	CB	36'6"	NV
			HS2004B			32009 SH 41	C21	AB	38'6"	NV
			HS2004D			32009 SH 42A	C10	TB	54'6"	NV
			KIRK INTL'K			32009 SH 41	LOCAL	AB	-25'6"	NV
			KIRK INTL'K			32009 SH 42A	LOCAL	AB	-25'6"	NV
1			PC224Y			32009 SH 41	LOCAL	AB	-25'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
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DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : P18B

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1	# SEQ. 0/K534B	NO	NO/NC	32009 SH. 42	RC02B	CB	36'6"	CA
1	# SEQ. 0/K634B	NO	NO/NC	39047 SH. 15	RC02C	CB	36'6"	CA
	SIAS5/SEQ23A			32009 SH. 41	RC02E	AB	36'6"	CA
	SIAS5/SEQ23B			32039 SH. 41	RC02E	AB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: CVCS

Equipment ID No. : P18C

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MILLSTONE POINT UNIT 2
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PAGE 236

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
			42			32009 SH. 43	B6102	AB	14'6"	CA
	GE-HFA	HFA151A9H	42X			32009 SH. 43	C02	CB	36'6"	CA
	GE-HFA	12HFA154B49H	# 43-2			39009 SH. 43A	C02R	CB	36'6"	CA
			43X			32009 SH. 43	C02R	CB	36'6"	CA
			43Y			32009 SH. 43	C01R	CB	36'6"	CA
			49			32009 SH. 43	B6102	AB	14'6"	CA
	GE-HGA	12HGA11J98G	63X/CH. 2			32009 SH. 43	C03R	CB	36'6"	CA
	TEL	J20M	63X/J10			32009 SH. 43	C02R	CB	36'6"	CA
			HS2005A			32009 SH. 13	C02R	CB	36'6"	NV
			HS2005B			32009 SH. 43A	C21	AB	38'6"	NV
			HS2005C			32009 SH. 43	C10	TB	54'6"	NV
			HS2005D			32009 SH. 43	C10	TB	54'6"	NV
1			PC224Z			32009 SH. 43	LOCAL	AB	-25'6"	CA
1			SEQ. 0/K634A	NO	NO/NC	32009 SH. 43, 39047 SH. 15	RC02C	CB	36'6"	CA
			SIAS2/SEQ. 2			32009 SH. 43	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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System: CVCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : P19A

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42			32009 SH.4	B6138	AB	14'6"	
	43X			32009 SH.4	C02	CB	36'6"	CA/OA
	43Y			32009 SH.4	C01R	CB	36'6"	CA
	49			32009 SH.4	B6138	AB	14'6"	
	63XB/LC226			32009 SH.4	C02	CB	36'6"	CA
	HS2001			32009 SH.4	C02	CB	36'6"	NV
	# HS210			32009 SH.4	C04	CB	36'6"	NV
	# HS226			32009 SH.4	C02	CB	36'6"	NV
	PB/START			32009 SH.4	B6138	AB	14'6"	NV
	SEQ 0			32009 SH.4	RC02C	CB	36'6"	CA/OA
	SIAS2/SEQ 2			32009 SH.4	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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System: CVCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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Equipment ID No. : P19B

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	42			32009 SH.5	B6139	AB	14'6"	
	43X			32009 SH.5	C02	CB	36'6"	CA/OA
	43Y			32009 SH.5	C01R	CB	36'6"	CA
	49			32009 SH.5	B6139	AB	14'6"	
	63XB/LC226			32009 SH.5	C02R	CB	36'6"	CA
	HS2002			32009 SH.5	C02	CB	36'6"	NV
	# HS210			32009 SH.5	C04	CB	36'6"	NV
	# HS226			32009 SH.5	C02	CB	36'6"	NV
	PB/START			32009 SH.5	B6139	AB	14'6"	NV
	SEQ 0			32009 SH.5	RC02C	CB	36'6"	CA/OA
	SIAS2/SEQ 2			32009 SH.5	RC02C	CB	36'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : PI-1013A

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH 340				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

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Equipment ID No. : PI-1013B

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH.341				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : PI-1013C

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	None			28500 SH 342				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : PI-1013D

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 343				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

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Equipment ID No. : PI-1023A

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH 355				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-S'.

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : PI-1023B

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 356				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

Equipment ID No. : PI-1023C

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 245

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH.357				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

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Equipment ID No. : PI-1023D

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT.*
	None			28500 SH 358				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : PI-103

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH 19A				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

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Equipment ID No. : PI-103-1

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 75C				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

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Equipment ID No. : PZR-LI

MILLSTONE POINT UNIT 2

DATE 12/12/95

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	HS110			28500 SH 69B	C03F	CB	36'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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System: RCS

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MILLSTONE POINT UNIT 2
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Equipment ID No. : PZR-PI

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH 53B				NA
	None			28500 SH 54B				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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System:

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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DATE 12/12/95
REV. 0

Equipment ID No. : RELAY CSAS

Rev.	Relay Mfg.&Type	Relay Model No.	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Contact	Y/N					
1			PT-8113 (Note 5)		39047 SH. 1	PT8113	AB	-5'0"	NV
1			PT-8114 (Note 5)		39047 SH. 2	PT8114	AB	-5'0"	NV
1			PT-8115 (Note 5)		39047 SH. 3	PT8115	AB	-5'0"	NV
1			PT-8116 (Note 5)		39047 SH. 4	PT8116	AB	-5'0"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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System:

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MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : **RELAY SDR (A)**

DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1	GE-HEA	12HEA63C238	# 43-1(DG-A)	NO	NO/NC	32041 SH. 7	C38	AB	14'6"	
	AGASTAT	2422PE	# 5(DG-A)	Y/N	NO/NC	32041 SH. 7	T040	AB	14'6"	
1	GE-HEA	HEA61B	86/A312	NO	NO	32041 SH. 7	A312	TB	31'6"	
	GE-IJD	12IJD52A114	87A/A312	NO	NO	32041 SH. 1	A312	TB	31'6"	
	GE-IJD	12IJD52A114	87B/A312	NO	NO	32041 SH. 1	A312	TB	31'6"	
	GE-IJD	12IJD52A114	87C/A312	NO	NO	32041 SH. 1	A312	TB	31'6"	
			ALR			32041 SH. 7	T040	AB	14'6"	
			CC1			32041 SH. 5	T040	AB	14'6"	
			CCP1			32041 SH. 7	T040	AB	14'6"	
			CF4			32041 SH. 6	C38	AB	14'6"	
ITE			CPL			32041 SH. 7	T040	AB	14'6"	
			CPLA			32041 SH. 7	T040	AB	14'6"	
			CR1			32041 SH. 6	T040	AB	14'6"	
			CR2			32041 SH. 6	T040	AB	14'6"	
ITE			CT1			32041 SH. 5	T040	AB	14'6"	
			CTH1			32041 SH. 5	T040	AB	14'6"	
			# DGH7A			32041 SH. 4	C08	CB	36'6"	NV
			EOR			32041 SH. 7	T040	AB	14'6"	
			EOS			32041 SH. 7	T040	AB	14'6"	
ITE			# ESS(DG-A)			32041 SH. 7	T040	AB	14'6"	
ITE			FPL			32041 SH. 7	T040	AB	14'6"	
			FPLA			32041 SH. 7	T040	AB	14'6"	
			IL2			32041 SH. 7	T040	AB	14'6"	
			LP1			32041 SH. 6	RC02B	CB	36'5"	
ITE			OP1			32041 SH. 7	T040	AB	14'6"	
ITE			OP2			32041 SH. 7	T040	AB	14'6"	
ITE			OP3			32041 SH. 7	T040	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

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Equipment ID No. : RELAY SDR (A)

DATE 12/12/95
 REV. 0

ENERG

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			OPL1			32041 SH. 7	T040	AB	14'6"	
			OPL2			32041 SH. 7	T040	AB	14'6"	
			OPL3			32041 SH. 7	T040	AB	14'6"	
			# OPS(DG-A)			32041 SH. 4	T040	AB	14'6"	
ITE			OTH			32041 SH. 6	T040	AB	14'6"	
			OTHA			32041 SH. 6	T040	AB	14'6"	
			PB14			32041 SH. 4	C38	AB	14'6"	NV
			PB2			32041 SH. 4	T040	AB	14'6"	NV
			# PB21			32041 SH. 7	C08	CB	36'6"	NV
			# PB22			32041 SH. 7	C08	CB	36'6"	NV
			# PB3(DG-A)			32041 SH. 5	T040	AB	14'6"	NV
			PB31			32041 SH. 7	C38	AB	14'6"	NV
			PB32			32041 SH. 7	C38	AB	14'6"	NV
ITE			# SFR(DG-A)			32041 SH. 7	T040	AB	14'6"	
			# SSW (810)(DG-A)			32041 SH. 4	T040	AB	14'6"	
AGASTAT	E7022PD002		# TD1(DG-A)	Y/N	NO/NC	32041 SH. 7	T040	AB	14'6"	
			TD2			32041 SH. 7	T040	AB	14'6"	
AGASTAT	E7022PB002		# TD6(DG-A)	Y/N	NC	32041 SH. 7	T040	AB	14'6"	
AGASTAT	E7022PB004		# TD7(DG-A)	Y/N	NO	32041 SH. 7	T040	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

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Equipment ID No. : RELAY SDR (B)

DATE 12/12/95
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Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
1	GE-HEA	12HEA63C238	# 43-1(DG-B)	NO	NO/NC	32041 SH 19	C39	AB	14'6"	
	AGASTAT	2422PE	# 5(DG-B)	Y/N	NO/NC	32041 SH 19	T041	AB	14'6"	
1	GE-HEA	HEA61B	86/A401	NO	NO	32041 SH 19	A401	TB	56'6"	
	GE-IJD	12IJD52A11A	87A/A401	NO	NO	32041 SH 19	A401	TB	56'6"	
	GE-IJD	12IJD52A11A	87B/A401	NO	NO	32041 SH 19	A401	TB	56'6"	
	GE-IJD	12IJD52A11A	87C/A401	NO	NO	32041 SH 19	A401	TB	56'6"	
			ALR			32041 SH 19	T041	AB	14'6"	
			CC1			32041 SH 17	T041	AB	14'6"	
			CCPA			32041 SH 19	T041	AB	14'6"	
			CPL			32041 SH 19	T041	AB	14'6"	
			CR1			32041 SH 18	T041	AB	14'6"	
			CR2			32041 SH 18	T041	AB	14'6"	
			CR4			32041 SH 18	C39	AB	14'6"	
			CT1			32041 SH 17	T041	AB	14'6"	
			CTH1			32041 SH 17	T041	AB	14'6"	
			# DGH7B			32041 SH 16	C08	CB	36'6"	NV
			EOR			32041 SH 16	T041	AB	14'6"	
			EOS			32041 SH 19	T041	AB	14'6"	
			# ESS(DG-B)			32041 SH 19	T041	AB	14'6"	
			FPL			32041 SH 17	T041	AB	14'6"	
			FPLA			32041 SH 19	T041	AB	14'6"	
			IL2			32041 SH 19	T041	AB	14'6"	
			LP2/SEQ. 0			32041 SH 18	RC02C	CB	36'6"	
			OP1			32041 SH 19	T041	AB	14'6"	
			OP2			32041 SH 19	T041	AB	14'6"	
			OP3			32041 SH 19	T041	AB	14'6"	
			OPL1			32041 SH 19	T041	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System:

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Equipment ID No. : RELAY SDR (B)

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		OPL2			32041 SH. 19	T041	AB	14'6"	
		OPL3			32041 SH. 19	T041	AB	14'6"	
		# OPS(DG-B)			32041 SH. 16	T041	AB	14'6"	
		OTH			32041 SH. 18	T041	AB	14'6"	
		OTHA			32041 SH. 18	T041	AB	14'6"	
		PB14			32041 SH. 16	C39	AB	14'6"	NV
		PB2			32041 SH. 16	T041	AB	14'6"	NV
		# PB21			32041 SH. 19	C08	CB	36'6"	NV
		# PB22			32041 SH. 19	C08	CB	36'6"	NV
		# PB3(DG-B)			32041 SH. 17	T041	AB	14'6"	NV
		PB31			32041 SH. 19	C39	AB	14'6"	NV
		PB32			32041 SH. 19	C39	AB	14'6"	NV
		# SFR(DG-B)			32041 SH. 19	T041	AB	14'6"	
		# SSW (810)(DG-B)			32041 SH. 16	T041	AB	14'6"	
AGASTAT	2422PC	# TD1(DG-B)	Y/N	NO/NC	32041 SH. 19	T041	AB	14'6"	
		TD2			32041 SH. 19	T041	AB	14'6"	
		# TD6(DG-B)	Y/N	NC	32041 SH. 19	T041	AB	14'6"	
		# TD7(DG-B)	Y/N	NO	32041 SH. 19	T041	AB	14'6"	

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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MILLSTONE POINT UNIT 2
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Equipment ID No. : RELAY SIAS

DATE 12/12/95
REV. 0

Rev.	Relay Mfg.&Type	Relay Model No.	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
1		PT-102A (Note 5)			39047 SH. 1	PT102A	CE	-3'6"	NV
1		PT-102B (Note 5)			39047 SH. 2	PT102B	CE	-3'6"	NV
1		PT-102C (Note 5)			39047 SH. 3	PT102C	CE	-3'6"	NV
1		PT-102D (Note 5)			39047 SH. 4	PT102D	CE	-3'6"	NV

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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Equipment ID No. : RELAY SRAS

DATE 12/12/95
REV. 0

ENERG

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
1			LT-3001 (Note 5)			39047 SH. 1	LT3001	YD	14'6"	NV
1			LT-3002 (Note 5)			39047 SH. 2	LT3002	YD	14'6"	NV
1			LT-3003 (Note 5)			39047 SH. 3	LT3003	YD	14'6"	NV
1			LT-3004 (Note 5)			39047 SH. 4	LT3004	YD	14'6"	NV

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* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: MS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
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Equipment ID No. : SV-4188

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/N/C	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	42/C			32020 SH. 49 & 49A	NSV4188	TB	1'6"	
	42/O			32020 SH. 49 & 49A	NSV4188	TB	1'6"	
	49-OLR			32020 SH. 49 & 49A	NSV4188	TB	1'6"	
	HS4188A			32020 SH. 49 & 49A	C05	CB	36'6"	NV
	HS4188B			32020 SH. 49 & 49A	C21	AB	38'6"	NV
	# HS4188C			32020 SH. 49 & 49A	C10	TB	54'6"	NV
	# HS4188D			32020 SH. 49 & 49A	C10	TB	54'6"	NV

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* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

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REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

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MILLSTONE POINT UNIT 2
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Equipment ID No. : TI-112CA

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		Y/N	NO/NC					
	None			28500 SH.79				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

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Equipment ID No. : TI-112CC

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP-2-RELAY RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT.*
	None			28500 SH 82				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

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Equipment ID No. : TI-112HA

MILLSTONE POINT UNIT 2

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DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 85				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGF: GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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Equipment ID No. : TI-112HB

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 84				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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System: RCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

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Equipment ID No. : TI-112HC

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
		None			28500 SH 86				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

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REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

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Equipment ID No. : TI-112HD

MILLSTONE POINT UNIT 2

DATE 12/12/95

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REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH.87				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

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MILLSTONE POINT UNIT 2
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Equipment ID No. : TI-122CB

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 80				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

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Equipment ID No. : TI-122CD

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAI *
	None			28500 SH 83				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 267

Equipment ID No. : TI-122HA

DATE 12/12/95
REV. 0

Rev. Relay Mfg. & Type	Relay Model No.	Contact	ENERG Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 85				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 268

Equipment ID No. : TI-122HB

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH.84				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 269

Equipment ID No. : TI-122HC

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
	None			28500 SH 86				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: RCS

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 270

Equipment ID No. : TI-122HD

DATE 12/12/95
REV. 0

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 87				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: LPSI

USI A-46 RELAY SCREENING AND EVALUATION TABULATION

PAGE 271

Equipment ID No. : TR-351

MILLSTONE POINT UNIT 2

DATE 12/12/95
REV. 0

DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

ENERG

Rev. Relay Mfg. & Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
		None			28500 SH 297				NA
		None			28500 SH 296				NA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

CA - Chatter acceptable.

NV - Not vulnerable (mechanically actuated contacts or solid state relays).

SWGR GERS - SWGR Screening based on EPRI-7148-SL

NA - Component not affected by relays.

CR - Corrective action required.

OA - Operator action.

Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : X169AC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
 MILLSTONE POINT UNIT 2
 DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 272

DATE 12/12/95
 REV. 0

Rev. Relay Mfg. & Type Relay Model No.		Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
			Y/N	NO/NC					
		# 42			32023 SH 58	B5235	AB	38'6"	CA
		# 42			32023 SH 44	B5224	AB	38'6"	CA
		# 49			32023 SH 58	B5235	AB	38'6"	CA
GE-HGA	12HGA11J98G	90T			32023 SH 58	X169A	TB	14'6"	CA
1		# HPC			32023 SH 58, 29136 SH 81	X169A	TB	14'6"	CA
		# HS8845			32023 SH 44	C80	CB	36'6"	NV
		# HS9855			32023 SH 58	X169A	TB	14'6"	NV
1		LPC			32023 SH 58, 29136 SH 81	X169A	TB	14'6"	CA
1		# LTC(X169A)			32023 SH 58, 29136 SH 81	X169A	TB	14'6"	CA
1		# MP	YES	NO	32023 SH 58, 29136 SH 81	X169A	TB	14'6"	CA
1		# OPC(X169A)			32023 SH 58, 29136 SH 81	X169A	TB	14'6"	CA
		# SIAS/K635A			32023 SH 44, 39047 SH 14	RC02B	CB	36'6"	CA
1		# TC			32023 SH 58, 29136 SH 81	X169A	TB	14'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System: HVAC

Equipment ID No. : X169BC

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - ASSOCIATED RELAYS

PAGE 273
DATE 12/12/95
REV. 0

Rev.	Relay Mfg. & Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev.	SAT. *
				Y/N	NO/NC					
			# 42			32023 SH. 45	B6238	AB	36'6"	CA
			# 42			32023 SH. 59	B6241	AB	36'6"	CA
			# 49			32023 SH. 59	B6241	AB	36'6"	CA
	GE-HGA	12HGA11J98G	90T			32023 SH. 59	X169B	TB	14'6"	CA
1			# HPC			32023 SP. 59, 29136 SH. 81	X169B	TB	14'6"	CA
			# HS8852			32023 SH. 45	C80	CB	36'6"	NV
			# HS9856			32023 SH. 59	X169B	TB	14'6"	NV
1			LPC			32023 SH. 59, 29136 SH. 81	X169B	TB	14'6"	CA
1			# LTC(X169B)			32023 SH. 59, 29136 SH. 81	X169B	TB	14'6"	CA
1			# MP	YES	NO	32023 SH. 59, 29136 SH. 81	X169B	TB	14'6"	CA
1			# OPC(X169B)			32023 SH. 59, 29136 SH. 81	X169B	TB	14'6"	CA
			# SIAS/K635B			32023 SH. 45, 39047 SH. 14	RC02C	CB	36'6"	CA
1			# TC			32023 SH. 59, 29136 SH. 81	X169B	TB	14'6"	CA

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- SWGR GERS - SWGR Screening based on EPRI-7148-SL
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- Blank - Essential Contact.

REV. 0 Prepared by: DJR Date: 12/12/95
 REV. 0 Reviewed by: JJB Date: 12/12/95
 REV. 1 Prepared by: PC Date: 12/12/95
 REV. 1 Reviewed by: CB Date: 12/12/95

NOTES:

1. See Tabulation sheet for Relay SDR (A) for additional relays/contacts.
2. See Tabulation sheet for Relay SDR (B) for additional relays/contacts.
3. See Tabulation sheet for F38A for additional relays/contacts.
4. See Tabulation sheet for F38B for additional relays/contacts.
5. A seismic evaluation of this transmitter is required to ensure that integrity of the control circuit is not lost.
6. See Tabulation sheet for Relay CSAS for additional relays/contacts.
7. See Tabulation sheet for Relay SIAS for additional relays/contacts.
8. See Tabulation sheet for Relay SRAS for additional relays/contacts.
9. Chatter of the contacts associated with this relay are acceptable provided Switch HS-210 at Panel C04 is placed in the "BORATE" position following the seismic event.
10. Chatter of the contacts associated with this relay are acceptable provided Switch HS2512 at Panel C04 is placed in the "CLOSE" position following the seismic event.
11. Chatter of the contacts associated with this relay are acceptable provided Switch HS6389 at Panel C06 is placed in the "OPEN" position following the seismic event.
12. Chatter of the contacts associated with this relay are acceptable provided Switch HS6397 at Panel C06 is placed in the "OPEN" position following the seismic event.
13. See Tabulation sheet for Breaker A302 for additional relays/contacts.
14. See Tabulation sheet for Breaker A312 for additional relays/contacts.
15. See Tabulation sheet for Breaker A401 for additional relays/contacts.
16. See Tabulation sheet for Breaker A41 1 for additional relays/contacts.
17. Contact chatter may trip the breaker. If this occurs, it is acceptable because the diesel generator will start as a result of loss of off-site power.
18. Contact chatter could result in a momentary change of state for the applicable equipment. Chatter is acceptable since the device will return to its required state following the earthquake.

USI A-46 RELAY EVALUATION REPORT
FOR MILLSTONE UNIT 2

ATTACHMENT C

MILLSTONE UNIT 2
RELAY SCREENING AND EVALUATION TABULATION
"ESSENTIAL RELAYS"

(100 Pages)

**USI A-46 RELAY EVALUATION REPORT
FOR MILLSTONE UNIT 2**

ATTACHMENT D

**MILLSTONE UNIT 2
USI A-46 RELAY SCREENING AND EVALUATION TABULATION
"LOW RUGGEDNESS RELAYS"**

(2 Pages)

System:

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - LOW RUGGEDNESS RELAYS

PAGE 1
DATE 12/12/95
REV. 0

Equipment ID No. : RELAY SDR (A)

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	ENERG		Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
				Y/N	NO/NC				
GE-IJD		12IJD52A114	87A/A312	NO	NO	32041 SH. 1	A312	TB	31'6"
GE-IJD		12IJD52A114	87B/A312	NO	NO	32041 SH. 1	A312	TB	31'6"
GE-IJD		12IJD52A114	87C/A312	NO	NO	32041 SH. 1	A312	TB	31'6"

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- GERS - Seismically adequate based on GERS; include GERS number.
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- - No entry necessary.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

System:

USI A-46 RELAY SCREENING AND EVALUATION TABULATION
MILLSTONE POINT UNIT 2
DOCUMENT NO. MP2-RELAY.RPT - LOW RUGGEDNESS RELAYS

PAGE 2
DATE 12/12/95
REV. 0

Equipment ID No. : RELAY SDR (B)

ENERG

Rev.	Relay Mfg.&Type	Relay Model No.	Contact	Y/N	NO/NC	Ref. Drawings(s)	Panel	Bldg.	Elev. SAT. *
GE-IJD	12IJD52A11A	87A/A401	87A/A401	NO	NO	32041 SH. 19	A401	TB	56'6"
GE-IJD	12IJD52A11A	87B/A401	87B/A401	NO	NO	32041 SH. 19	A401	TB	56'6"
GE-IJD	12IJD52A11A	87C/A401	87C/A401	NO	NO	32041 SH. 19	A401	TB	56'6"

A "#" indicates that this relay has multiple occurrences (i.e. may be found associated with other equipment) in the "Relay Tabulation".

* Identify reason for Contact/Contact Group being satisfactory or unsatisfactory.

- CA - Chatter acceptable.
- NV - Not vulnerable (mechanically actuated contacts or solid state relays).
- GERS - Seismically adequate based on GERS; include GERS number.
- NA - Component not affected by relays.
- CR - Corrective action required.
- OA - Operator action.
- - No entry necessary.

REV. 0 Prepared by: DJR Date: 12/12/95

REV. 0 Reviewed by: JJB Date: 12/12/95

REV. 1 Prepared by: PC Date: 12/12/95

REV. 1 Reviewed by: CB Date: 12/12/95

USI A-46 RELAY EVALUATION REPORT
FOR MILLSTONE UNIT 2

ATTACHMENT E
RESUME OF LEAD RELAY REVIEWER
(7 Pages)

CHARLES E. BECK, P.E.

EDUCATION

Ph.D. Candidate, Electrical and Computer Engineering, Illinois Institute of Technology (IIT)
MS, Electrical and Computer Engineering, IIT
BS, Electrical Engineering, University of Notre Dame

FORMAL TRAINING

- US Navy Nuclear Power School
- SQUG "Equipment Selection" and "Relay Evaluation" training courses (by MPR Associates)
- BWR "Introduction to Power Plant Operation" (by Commonwealth Edison Company)
- "Electrical Power System Survey" course (by Commonwealth Edison Company)
- "Nuclear Codes, Standards, and Regulatory Requirements" (by General Physics Corporation)
- "Fire Protection for Power Plants" (by Professional Loss Control)
- "Project Engineer" and "Project Management" training courses (by ABB Impell Corporation)

PROFESSIONAL AFFILIATIONS

Licensed Professional Engineer in IL, MA, MI, MN, and WI

Senior Member - Institute of Electrical and Electronics Engineers (IEEE)

Member - American Nuclear Society

- National Society of Professional Engineers
- National Fire Protection Association
- Program Committee for the American Power Conference

PROFICIENCIES

Analysis, Design, and Modifications for Electrical Systems.

Nuclear Station Systems Engineering.

IEEE Standards, NEMA Standards, NUREGs, NRC Generic Letters & Information Notices. 10CFR21, 10CFR50 (Appendix B) and 10CFR50.59.

Developing Test Plans and Performing Electrical Tests. Technical Writing.

Computer-aided Power System Analysis.

Large-scale Project Management.

EXPERIENCE SUMMARY

Mr. Beck is the Engineering Manager for Kiran Consultants, Incorporated. His project management responsibilities include assuring compliance with client requirements, scheduling and monitoring major tasks, optimizing the use of personnel and other resources, and controlling project budgets. He has performed detailed system reviews for Licensee Event Reports, operability issues, NRC Information Notices, and Root Cause Investigations. He wrote test plans, conducted laboratory tests, and wrote test reports on safety-related relays and motors. He wrote a training program for motor refurbishment, including the Student Handout, the Instructor's Guide, and visual aids.

Previous experience includes a multi-million dollar, four year, multi-disciplinary, Human Factors project to upgrade Annunciator Systems. Other DCRDR projects include modifications to Control Room Lighting and HVAC, Control Panel layout, and DG Control Systems.

Mr. Beck was the "Lead Relay Reviewer" for a SQUG Relay Evaluation. He has performed and reviewed calculations and design changes for Motor-Operated Valves, in response to Generic Letter 89-10 requirements. He has provided audit support and other consulting services, including EDSFI preparations, DET support, and ECCS System logic reviews. He has extensive design experience in minor plant changes, ranging from simple relay substitutions, to reactor mode switch rewiring, to replacements of Station Batteries. He has performed operability assessments for potentially degraded systems, reviewed mechanical and structural modifications for electrical interactions, and performed Safety Evaluations and Technical Quality Reviews to assure acceptability of designs.

EXPERIENCE SUMMARY (Cont'd)

Mr. Beck directs a section of seven engineers. He is responsible for ensuring technical quality and client satisfaction, for productivity, and for training. His section performs specialty consulting tasks related to power system analysis, topical issues (such as motor operated valves), component testing, and environmental qualification of electrical equipment. Included with these tasks are verification of compliance with applicable codes, standards, regulations, and client-specific procedures.

Mr. Beck has twenty years of experience in the operation, maintenance, and design of nuclear power plants. This includes four years with ComEd's BWR Engineering Department, where he performed all phases of modification design. He held a two-year assignment at Quad Cities Nuclear Station, in the role of onsite representative of the corporate engineering office. He was involved in over fifty significant projects as a BWR design engineer, including modifications, conceptual studies, operability assessments, and responses to Nuclear Licensing issues.

Mr. Beck served in the US Navy Nuclear Program for nine years, supervising up to 130 operators and technicians. He was responsible for Electrical Distribution and Reactor Control on three nuclear powered ships. With his background as a navy nuclear operator and as a BWR design engineer, he has performed project work from both the Electrical and the Systems Engineering perspectives.

TECHNICAL PUBLICATIONS

"Expert System Applications in Nuclear Plants: Discussion of the Key Issues," IEEE Transactions on Nuclear Science v39 n5: 1992.

"Concepts of Reactor Physics, Without the Mathematics," IEEE Transactions on Nuclear Science v39 n3, Part II: 1992.

"Video/CAD Animation: A Technical Tool to Simplify the Human Task In Nuclear Plant Maintenance," Conference Record, IEEE SMC International Conference: 1992.

"Addressing External Constraints for AI in Nuclear Power Applications," Conference Record, IEEE Nuclear Science Symposium: 1992.

"Minimizing Installation Impact of Human Factors Projects," Conference Record, IEEE Nuclear Science Symposium: 1992.

TECHNICAL PUBLICATIONS (Cont'd)

"A Bibliography of Expert Systems as Applied to Nuclear Power Plants," IEEE Transactions on Energy Conversion v8 n1: 1993.

"Modelling External Constraints: Applying Expert Systems to Nuclear Plants," Proceedings of the American Power Conference: 1993.

"Impact of Transient Inrush on MCV Starting" Conference Record of the 1993 IEEE Nuclear Science Symposium, San Francisco, CA: 1993.

"Modelling of Nuclear Plant System Interactions Using a 'Layered-Data' Concept." IEEE Transactions on Nuclear Science v41 n4, Part I: 1994.

"On-Site Motor Refurbishment Shop." Conference Record of the 1994 IEEE Nuclear Science Symposium, Norfolk, VA: 1994.

"Analysis of Simultaneous Unbalanced Faults Using Three-Port Network Theory," Proceedings of the American Power Conference: 1995.

"A Qualification Test for Relay Contacts as Isolation Devices in Nuclear Power Plants," accepted for IEEE Transactions on Nuclear Science: 1995.

Organizer, Chairman, and Moderator for the "Nuclear DC Systems Roundtable," a technical presentation and panel discussion in the American Power Conference: 1993 - 1995.

JAMES J. BUCKLEY

SPECIALTIES

ELECTRICAL ENGINEERING AND DESIGN

PROFESSIONAL EXPERIENCE

Mr. Buckley is the Supervisor of Design and Drafting for VECTRA's Boston office Design/Engineering Section of the Electrical Systems Division. He has over 24 years of experience in the engineering, design and installation of electrical systems for power generation and various industrial facilities including pulp and paper projects and water/sewerage treatment plants.

Mr. Buckley has attended the SQUG training course for Safe Shutdown Equipment Selection and Relay Screening and Evaluation which qualifies him as a Lead Relay Reviewer. Presently, Mr. Buckley is the Lead Relay Reviewer for the identification of USI A-45 and IPEEE Safe Shutdown Equipment and Relays for Philadelphia Electric Company (PECo) Peach Bottom Atomic Power Station Units 2 and 3. The overall project scope is to retrieve each electrical component from the Safe Shutdown List for Relay Evaluation and review schematics, wiring diagrams and loop diagrams associated with each component to identify relays required to be verified as seismically adequate per the requirements of the SQUG Generic Implementation Procedure (GIP). He has also been the Lead Relay Reviewer for the Public Service Electric and Gas Company (PSE&G) Salem Generating Station Units 1 and 2, Northeast Utilities Service Company (NUSCO) for Connecticut Yankee and Millstone Units 1 and 2 and the Boston Edison Company Pilgrim Nuclear Power Station.

Prior to this assignment, he was the Project Engineer for the Boston Edison Pilgrim Station Annunciator Project, which performed a complete redesign of the existing system including the preparation of three Plant Design Change (PDC) packages. The project scope was to rearrange the Control Room annunciator windows and revise the associated electrical schematics, wiring diagrams, cable block diagram, cable and raceway schedules, process and instrumentation diagrams and functional control diagrams.

Previously, Mr. Buckley served as Lead Engineer for the Electric Load Management System project, a data collection effort for NUSCO's Millstone Unit 1 Station. He also held the same position for an identical project at NUSCO's Connecticut Yankee Station.

EXPERIENCE (Cont.)

Prior to this assignment, Mr. Buckley was assigned to the Carolina Power and Light, Brunswick Plant, Appendix R separation analysis documentation review. He also supported the Niagara Mohawk, Nine Mile Unit 1, project which consisted of 125VDC system modifications, fuse and molded-case switch additions to the 125VDC distribution boards and addition of battery monitoring systems for 125VDC batteries. In a previous assignment, he was a Project Engineer on the Commonwealth Edison, Dresden Unit 2 Annunciator Modifications Project. This modification addressed the human engineering deficiencies associated with the plant annunciator system. Changes to the system included auditory coding, ringback and flashrate adjustment and reflash. These changes resulted in extensive revisions to the plant's wiring and schematic drawings.

Previously, he was the Lead Electrical Design/Engineer for the No. 4 Chemical Recovery Boiler Project for Miramichi Pulp and Paper. His responsibilities included checking electrical specifications and calculations, development of the wiring design for connection of field cables as well as the design of raceways, grounding, lighting, etc.

His earlier assignments at VECTRA included experience in an as-built verification of wiring diagrams for control panels and the development of design change packages required to resolve any deficiencies and updating all affected drawings for Boston Edison's Pilgrim Station. Other activities at Pilgrim Station included lighting design of the Computer Room, answering Engineering Service Requests (ESR), issuing and resolving Potential Conditions Adverse to Quality (PCAQ), writing and implementing Maintenance Work Request (MWR), evaluating plant conditions for circuit isolations and the preparing Appendix R Plant Design Change Packages. These packages included cable rerouting, and the installation of fire detection and suppression systems.

His previous assignments include a staff position on the Equipment Qualification Program team for Northeast Utilities and at the Seabrook Station which also included walkdown assignments. Earlier assignments with VECTRA include the electrical design of the Appendix R Emergency Lighting System for Connecticut Yankee.

In an assignment at the NYPA Fitzpatrick plant, Mr. Buckley was responsible for coordinating the installation of electrical modifications in accordance with 10 CFR 50, Appendix R. His responsibilities included the layout of equipment, conduit routing and design of conduit supports.

EXPERIENCE (Cont)

Mr. Buckley previously worked with the C.T. Main Corporation Pulp and Paper Division where he was responsible for the electrical design of recovery boiler systems including precipitators, evaporators, and air compressors for the Ngodwana Mill Expansion Program in South Africa. In connection with this work, he was also responsible for raceway layout and design, and field engineering support. He prepared the secondary electrical power drawings, motor control center arrangements, computerized cable schedules, and related PLC drawings. He was assigned to the site for four months for the checkout and start-up of the recovery boiler, and the review of the electrical subcontractor's work. Other projects included the design of paper machines, power boilers, coal and wood yards and turbine generators.

With Metcalf & Eddy, Mr. Buckley was involved in the electrical design of various water and sewerage treatment plants. His work included a three month field assignment to determine the sources of computer analog and digital inputs associated with the computerization of an existing sewage treatment plant in St. Paul, Minnesota. In an earlier assignment, he spent three months overseas providing engineering support for the construction of military air base facilities in the Kingdom of Saudi Arabia.

EDUCATION

Attended Northeastern University's Lincoln College

**USI A-46 RELAY EVALUATION REPORT
FOR MILLSTONE UNIT 2**

ATTACHMENT F

**MILLSTONE UNIT 2
SUMMARY OF SEISMIC CAPACITY EVALUATION FOR ESSENTIAL RELAYS**

(15 Pages)

ID	MAKE	DESC	PLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
52-B0502					22E	WEST 480V SWGR	OK***	
52-B0506					22E	WEST 480V SWGR	OK***	
52-B0507					22E	WEST 480V SWGR	OK***	
52-B0606					22F	EAST 480V	OK***	
52-B0607					22F	EAST 480V	OK***	
52-B0610					22F	EAST 480V	OK***	
52-B0611					22F	EAST 480V	OK***	
52Y-A302					24C	LOWER 4160V	SWGR GERS	
52Y-A305					24C	LOWER 4160V	SWGR GERS	
52Y-A307					24C	LOWER 4160V	SWGR GERS	
52Y-A308					24C	LOWER 4160V	SWGR GERS	
52Y-A309					24C	LOWER 4160V	SWGR GERS	
52Y-A311					24C	LOWER 4160V	SWGR GERS	
52Y-A312					24C	LOWER 4160V	SWGR GERS	
81-A312	GE-CFF	12CFF12AG3A	NO	NO	24C	LOWER 4160V	SWGR GERS	
81X-A312	GE-CFF	12CFF12AG3A	NO	NO	24C	LOWER 4160V	SWGR GERS	
86-A312	GE-HEA	HEA61B	NO	NO	24C	LOWER 4160V	GERS / Cap vs. Dem	Memo
OSVS								
86/15G-12U-2 (Note 14)-A305	GE-HEA	HEA61B	NO	NO	24C	LOWER 4160V	SWGR GERS	
86/A312-RELAY SDR (A)	GE-HEA	HEA61B	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
3-A303	GE-HFA	12HFA151A2H	NO	NO	24C	LOWER 4160V	SWGR GERS	
3-A306	GE-HFA	12HFA151A2H	NO	NO	24C	LOWER 4160V	SWGR GERS	
3-A307	GE-HFA	12HFA151A2H	NO	NO	24C	LOWER 4160V	SWGR GERS	
86-1/22S3-24C-2 (Note 13)-A305	GE-HFA	12HFA151A2H	NO	NO	24C	LOWER 4160V	SWGR GERS	
86-1/24C-1T-2 A305	GE-HFA	12HFA151A2H	NO	NO	24C	LOWER 4160V	SWGR GERS	
86-2-A305	GE-HFA	12HFA151A2H	NO	NO	24C	LOWER 4160V	GERS / Cap vs. Dem	
86-2/22S3-24C2-A312	GE-HFA	12HFA151A2H	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
86-A305	GE-HFA	12HFA151A2H	NO	NO	24C	LOWER 4160V	SWGR GERS	
86X-A305	GE-HGA	HGA11W	NO	NO	24C	LOWER 4160V	GERS / Cap vs. Dem	
51A-A305	GE-IAC	12IAC53A101A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
51A-A305	GE-IAC	12IAC53A101A	NO	NO	24C	LOWER 4160V	GERS / Cap vs. Dem	
51B-A305	GE-IAC	12IAC53A101A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
51C-A305	GE-IAC	12IAC53A101A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
51-A312	GE-IAC	12IAC53A3A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
51GS-A305	GE-IAC	12IAC53A3A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	

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ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
51GS-A312	GE-IAC	12IAC53A3A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
50/51A-A303	GE-IAC	12IAC53B104A	NO	NO	24C	LOWER 4160V	GERS / Cap vs. Dem	
50/51B-A303	GE-IAC	12IAC53B104A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
50/51C-A303	GE-IAC	12IAC53B104A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
50/51A-A306	GE-IAC	12IAC66K8A	NO	NO	24C	LOWER 4160V	GERS / Cap vs. Dem	
50/51A-A307	GE-IAC	12IAC66K8A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
50/51B-A306	GE-IAC	12IAC66K8A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
50/51B-A307	GE-IAC	12IAC66K8A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
50/51C-A306	GE-IAC	12IAC66K8A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
50/51C-A307	GE-IAC	12IAC66K8A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
27/B-A312	GE-IAV	12IAV55CIA	NO	NC	24C	LOWER 4160V	SWGR GERS	
27/L-A312	GE-IAV	12IAV55CIA	NO	NO/NC	24C	LOWER 4160V	SWGR GERS	
32-A312	GE-ICW	12ICW51A2A	NO	NO	24C	LOWER 4160V	No GERS	Memo
OSVS								
51V-A312	GE-IJCV	12IJCV52A9A	NO	NO	24C	LOWER 4160V	No GERS	
87A/A312-RELAY SDR (A)	GE-IJD	12IJD52A11A	NO	NO	24C	LOWER 4160V	Bad if non-1E / Cap vs. Dem	Memo
OSVS								
87B/A312-RELAY SDR (A)	GE-IJD	12IJD52A11A	NO	NO	24C	LOWER 4160V	Bad if non-1E / Cap vs. Dem	
87C/A312-RELAY SDR (A)	GE-IJD	12IJD52A11A	NO	NO	24C	LOWER 4160V	Bad if non-1E / Cap vs. Dem	
25/SC-A312	GE-IJS	IJS52D1A	NO	NO	24C	LOWER 4160V	SWGR GERS	
50GS-A303	GE-PJC	121PJC11AV1A	NO	NO	24C	LOWER 4160V	GERS / Cap vs. Dem	
50GS-A306	GE-PJC	121PJC11AV1A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
50GS-A307	GE-PJC	121PJC11AV1A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
50GS-A312	GE-PJC	12PJC11AV	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
50-A312	GE-PJC	12PJC11X3A	NO	NO	24C	LOWER 4160V	Cap vs. Dem	
83X-A305	TEL	CLASS J	NO	NC	24C	LOWER 4160V	SWGR GERS	
52Y-A401					24D	UPPER 4160V	SWGR GERS	
52Y-A402					24D	UPPER 4160V	SWGR GERS	
52Y-A403					24D	UPPER 4160V	SWGR GERS	
52Y-A404					24D	UPPER 4160V	SWGR GERS	
52Y-A406					24D	UPPER 4160V	SWGR GERS	
52Y-A408					24D	UPPER 4160V	SWGR GERS	
52Y-A411					24D	UPPER 4160V	SWGR GERS	
3-A406			NO	NO	24D	UPPER 4160V	SWGR GERS	
3-A407			NO	NO	24D	UPPER 4160V	SWGR GERS	

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ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
81X-A401			NO	NO	24D	UPPER 4160V	SWGR GERS	
3-A409			YES	NO	24D	UPPER 4160V	SWGR GERS	
81-A401	GE-CFF	12CFF12A63A	NO	NO	24D	UPPER 4160V	SWGR GERS	
86-A401	GE-HEA	HEA61B	NO	NO	24D	UPPER 4160V	GERS / Cap vs. Dem	
86/A401-RELAY SDR (B)	GE-HEA	HEA61B	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
86/15G-13U-2 (Note 15)-A408	GE-HEA	HEA61B	NO	NO/NC	24D	UPPER 4160V	Cap vs. Dem	
86-2-A408	GE-HFA	12HFA151A2H	NO	NC	24D	UPPER 4160V	GERS / Cap vs. Dem	
86-A408	GE-HFA	12HFA151A2H	NO	NC	24D	UPPER 4160V	Cap vs. Dem	
86-1/22S3-24D-2 (Note 16)-A408	GE-HFA	12HFA151A2H	NO	NO	24D	UPPER 4160V	GERS / Cap vs. Dem	
86-1/24D-1T-2-A4C3	GE-HFA	12HFA151A2H	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
86-2-A408	GE-HFA	12HFA151A2H	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
86-2/22S3-24D-2-A401	GE-HFA	12HFA151A2H	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
86X-A408	GE-HGA	HGA11W	NO	NO	24D	UPPER 4160V	GERS / Cap vs. Dem	
51-A401	GE-IAC	12IAC53A101A	NO	NO	24D	UPPER 4160V	GERS / Cap vs. Dem	
51A-A408	GE-IAC	12IAC53A101A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
51B-A408	GE-IAC	12IAC53A101A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
51C-A408	GE-IAC	12IAC53A101A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
51GS-A408	GE-IAC	12IAC53A3A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
50/51A-A409	GE-IAC	12IAC53B104A	NO	NO	24D	UPPER 4160V	GERS / Cap vs. Dem	
50/51B-A409	GE-IAC	12IAC53B104A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
50/51C-A409	GE-IAC	12IAC53B104A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
50/51A-A406	GE-IAC	12IAC66K8A	NO	NO	24D	UPPER 4160V	GERS / Cap vs. Dem	
50/51A-A407	GE-IAC	12IAC66K8A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
50/51B-A406	GE-IAC	12IAC66K8A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
50/51B-A407	GE-IAC	12IAC66K8A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
50/51C-A406	GE-IAC	12IAC66K8A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
50/51C-A407	GE-IAC	12IAC66K8A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
51GS-A401	GE-IAC	IAC53A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
32-A401	GE-ICW	12ICW51A2A	NO	NO	24D	UPPER 4160V	No GERS	
51V-A401	GE-IJCV	12IJCV52A9A	NO	NO	24D	UPPER 4160V	No GERS	
87A/A401-RELAY SDR (B)	GE-IJD	12IJD52A11A	NO	NO	24D	UPPER 4160V	Bad if non-1E / Cap vs. Dem	
87B/A401-RELAY SDR (B)	GE-IJD	12IJD52A11A	NO	NO	24D	UPPER 4160V	Bad if non-1E / Cap vs. Dem	
87C/A401-RELAY SDR (B)	GE-IJD	12IJD52A11A	NO	NO	24D	UPPER 4160V	Bad if non-1E / Cap vs. Dem	
25/SC-A401	GE-IJS	12IJS52D1A	NO	NO	24D	UPPER 4160V	SWGR GERS	
27/B-A401	GE-IJS	IJS52	NO	NO	24D	UPPER 4160V	SWGR GERS	
27/L-A401	GE-JS	IJS52	NO	NO	24D	UPPER 4160V	SWGR GERS	
50GS-A401	GE-PJC	12PJC11AV1A	NO	NO	24D	UPPER 4160V	GERS / Cap vs. Dem	
50GS-A406	GE-PJC	12PJC11AV1A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	

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ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
50GS-A407	GE-PJC	12PJC11AV1A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
50GS-A409	GE-PJC	12PJC11AV1A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
50-A401	GE-PJC	12PJC11X3A	NO	NO	24D	UPPER 4160V	Cap vs. Dem	
83X-A408	TEL	CLASS J	NO	NC	24D	UPPER 4160V	SWGR GERS	
52Y-A502					24E	LOWER 4160V	SWGR GERS	
52Y-A503					24E	LOWER 4160V	SWGR GERS	
52Y-A504					24E	LOWER 4160V	SWGR GERS	
3-A502			NO	NO	24E	LOWER 4160V	SWGR GERS	
86-1/21S3-24E-2-A305	GE-HFA	HFA51A	NO	NO	24E	LOWER 4160V	SWGR GERS	
86-1/21S3-24E-2-A408	GE-HFA	HFA51A	NO	NO	24E	LOWER 4160V	GERS / Cap vs. Dem	
86-2-A305	GE-HFA	HFA51A	NO	NO	24E	LOWER 4160V	Cap vs. Dem	
51A-A408	GE-IAC	12IAC53A101A	NO	NO	24E	LOWER 4160V	GERS / Cap vs. Dem	
51B-A305	GE-IAC	12IAC53A101A	NO	NO	24E	LOWER 4160V	Cap vs. Dem	
51B-A408	GE-IAC	12IAC53A101A	NO	NO	24E	LOWER 4160V	Cap vs. Dem	
51C-A305	GE-IAC	12IAC53A101A	NO	NO	24E	LOWER 4160V	Cap vs. Dem	
51C-A408	GE-IAC	12IAC53A101A	NO	NO	24E	LOWER 4160V	Cap vs. Dem	
50/51A-A502	GE-IAC	12IAC66K8A	NO	NO	24E	LOWER 4160V	GERS / Cap vs. Dem	
50/51B-A502	GE-IAC	12IAC66K8A	NO	NO	24E	LOWER 4160V	Cap vs. Dem	
50/51C-A502	GE-IAC	12IAC66K8A	NO	NO	24E	LOWER 4160V	Cap vs. Dem	
50GS-A305	GE-PJC	121PJC11AV1A	NO	NO	24E	LOWER 4160V	GERS / Cap vs. Dem	
50GS-A408	GE-PJC	121PJC11AV1A	NO	NO	24E	LOWER 4160V	Cap vs. Dem	
50GS-A502	GE-PJC	121PJC11AV1A	NO	NO	24E	LOWER 4160V	Cap vs. Dem	
42 (Note 3)-2-HV-255A					B51	SFP SKIMMER PP A	Bkr Cap	
42-F15A					B51	SFP SKIMMER PP A	Bkr Cap	
42-F38A					B51	SFP SKIMMER PP A	Bkr Cap	
42-F54A					B51	SFP SKIMMER PP A	Bkr Cap	
42/C-2-CH-501					B51	SFP SKIMMER PP A	Bkr Cap	
42/C-2-CH-504					B51	SFP SKIMMER PP A	Bkr Cap	
42/C-2-CH-509					B51	SFP SKIMMER PP A	Bkr Cap	
42/C-2-CS-13.1A					B51	SFP SKIMMER PP A	Bkr Cap	
42/C-2-RB-30.1A					B51	SFP SKIMMER PP A	Bkr Cap	
42/C-2-RB-37.2A					B51	SFP SKIMMER PP A	Bkr Cap	
42/C-2-RC-403					B51	SFP SKIMMER PP A	Bkr Cap	
42/C-2-SI-615					B51	SFP SKIMMER PP A	Bkr Cap	
42/C-2-SI-625					B51	SFP SKIMMER PP A	Bkr Cap	
42/O-2-CH-501					B51	SFP SKIMMER PP A	Bkr Cap	

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ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
42/O-2-CH-509					B51	SFP SKIMMER PP A	Bkr Cap	
42/O-2-CS-4.1A					B51	SFP SKIMMER PP A	Bkr Cap	
42/O-2-RC-403					B51	SFP SKIMMER PP A	Bkr Cap	
42/O-2-SI-615					B51	SFP SKIMMER PP A	Bkr Cap	
42/O-2-SI-625					B51	SFP SKIMMER PP A	Bkr Cap	
42/O-2-SI-651					B51	SFP SKIMMER PP A	Bkr Cap	
42/O-2-SI-663					B51	SFP SKIMMER PP A	Bkr Cap	
49-F15A					B51	SFP SKIMMER PP A	Bkr Cap	
49-F38A					B51	SFP SKIMMER PP A	Bkr Cap	
49-F54A					B51	SFP SKIMMER PP A	Bkr Cap	
49A-F15A					B51	SFP SKIMMER PP A	Bkr Cap	
3T2-F15A	AGASTAT	7012AD	NO	NO	B51	SFP SKIMMER PP A	GERS	
42T/TDO-F15A	AGASTAT	E7022AB002	YES	NO	B51	SFP SKIMMER PP A	GERS	
<hr/>								
42-F112A					B52	MAIN EXH FAN	OK***	
42-F31A					B52	MAIN EXH FAN	OK***	
42-P122A					B52	MAIN EXH FAN	OK***	
42/C-2-MS-201					B52	MAIN EXH FAN	OK***	
42/O-2-MS-201					B52	MAIN EXH FAN	OK***	
42/O-2-MS-65A					B52	MAIN EXH FAN	OK***	
49-F112A					B52	MAIN EXH FAN	OK***	
49-F31A					B52	MAIN EXH FAN	OK***	
49-P122A					B52	MAIN EXH FAN	OK***	
<hr/>								
42 (Note 4)-2-HV-255E					B61	PMP SAMP SK	Bkr Cap	
42-F15B					B61	PMP SAMP SK	Bkr Cap	
42-F38B					B61	PMP SAMP SK	Bkr Cap	
42-F54B					B61	PMP SAMP SK	Bkr Cap	
42-P19A					B61	PMP SAMP SK	Bkr Cap	
42-P19B					B61	PMP SAMP SK	Bkr Cap	
42/C-2-CH-429					B61	PMP SAMP SK	Bkr Cap	
42/C-2-CS-13.1B					B61	PMP SAMP SK	Bkr Cap	
42/C-2-RB-30.1B					B61	PMP SAMP SK	Bkr Cap	
42/C-2-RB-37.2B					B61	PMP SAMP SK	Bkr Cap	
42/C-2-RC-405					B61	PMP SAMP SK	Bkr Cap	
42/C-2-SI-635					B61	PMP SAMP SK	Bkr Cap	
42/C-2-SI-645					B61	PMP SAMP SK	Bkr Cap	
42/O-2-CH-429					B61	PMP SAMP SK	Bkr Cap	

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ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
42/O-2-C5-4.1B					B61	PMP SAMP SK	Bkr Cap	
42/O-2-RC-405					B61	PMP SAMP SK	Bkr Cap	
42/O-2-SI-635					B61	PMP SAMP SK	Bkr Cap	
42/O-2-SI-645					B61	PMP SAMP SK	Bkr Cap	
42/O-2-SI-652					B61	PMP SAMP SK	Bkr Cap	
42/O-2-SI-662					B61	PMP SAMP SK	Bkr Cap	
49-F15B					B61	PMP SAMP SK	Bkr Cap	
49-F38B					B61	PMP SAMP SK	Bkr Cap	
49-F54B					B61	PMP SAMP SK	Bkr Cap	
49-P19A					B61	PMP SAMP SK	Bkr Cap	
49-P19B					B61	PMP SAMP SK	Bkr Cap	
49A-F15B					B61	PMP SAMP SK	Bkr Cap	
3T2-F15B	AGASTAT	7012AD	NO	NO	B61	PMP SAMP SK	GERS	
42T/TDO-F15B	AGASTAT	E7022AB002	YES	NO	B61	PMP SAMP SK	GERS	
42-F112B					B62	CR HVAC RM	Bkr Cap	
42-F31B					B62	CR HVAC RM	Bkr Cap	
42-P122B					B62	CR HVAC RM	Bkr Cap	
42/C-2-FW-44					B62	CR HVAC RM	Bkr Cap	
42/C-2-MS-202					B62	CR HVAC RM	Bkr Cap	
42/O-2-MS-202					B62	CR HVAC RM	Bkr Cap	
49-F112B					B62	CR HVAC RM	Bkr Cap	
49-F31B					B62	CR HVAC RM	Bkr Cap	
49-P122B					B62	CR HVAC RM	Bkr Cap	
94-2-CH-518	GE-HGA	12HGA11J52	NO	NO	C02R	CONTROL RM	GERS	
94-2-CH-519	GE-HGA	12HGA11J52	NO	NO	C02R	CONTROL RM	GERS*	
94-2-CH-517	GE-HGA	12HGA11J52G	NO	NO	C02R	CONTROL RM	GERS*	
63XB-2-RC-404	GE-HFA	12HFA51A42H:3	NO	NO	C03R	CONTROL RM	GERS	
63XA-2-RC-402	GE-HGA	12HGA11J52G	NO	NO	C03R	CONTROL RM	GERS	
20X/Z1-2-FW-43A	GE-HFA	12HFA151A2H	NO	NO	C05	CONTROL RM	GERS / OK***	
20X/Z2-2-FW-43B	GE-HFA	12HFA151A2H	NO	NO	C05	CONTROL RM	OK***	
1X/UV4165-2-MS-190A	GE-HFA	12HFA151A2H	NO	NO	C05R	CONTROL RM	GERS / OK***	
1X/UV4165-2-MS-190B	GE-HFA	12HFA151A2H	NO	NO	C05R	CONTROL RM	OK***	
94T/UX6/UV4165-2-MS-190A	GE-HFA	12HFA151A2H	NO	NO	C05R	CONTROL RM	OK***	

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- Cap vs. Dem= Outlier, due to relay capacity not enveloping demand
- GERS** = MCC evaluation
- GERS* = Screened out by relay GERS, comparison to same model Relay Functionality Review
- GERS = Relay Functionality Review printed, see body of Attachment G
- No info = No make and model info, can't locate during walkdown
- No GERS = No relay GERS available / require further evaluation
- No info = No make and model info, can't locate during walkdown
- OK*** = Relay capacity acceptable, host cabinet is an outlier due to interactions or capacity not meeting demand
- SWGR GERS = Further circuit review determined contact is screened out using SWGR capacity

ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
94TGX6/UV4165-2-MS-190B	GE-HFA	12HFA151A2H	NO	NO	C05R	CONTROL RM	OK***	
63X-1/4224-2-MS-190A	GE-HGA	12HGA11J52G	NO	NO	C05R	CONTROL RM	GERS / OK***	
63X-1/4224-2-MS-190B	GE-HGA	12HGA11J52G	NO	NO	C05R	CONTROL RM	OK***	
20X1-2-MS-289	GE-HGA	12HGA11J52G	NO	NO	C06R	CONTROL RM	GERS / OK***	
20X1-2-MS-294	GE-HGA	12HGA11J52G	NO	NO	C06R	CONTROL RM	OK***	
83X2/15G-22S-A411	GE-HLA	11B12A	NO	NO	C07R	CONTROL RM	GERS	
83X1/15G-22S-A302	GE-HLA	12HLA11B12A	NO	NO	C07R	CONTROL RM	GERS*	
CF4-RELAY SDR (A)					C38	A D/G	No Info	Memo
OSVS - An OSVS is generated for all relay contacts at MP2 for relays w/o manufacturer/model information is being tracked via this relay contact ID.								
TD3(DG-A)-2-DG-27A	AGASTAT	2422DB	NO	NO/NC	C38	A D/G	GERS	
TD3(DG-A)-2-DG-95A	AGASTAT	2422DB	NO	NO/NC	C38	A D/G	GERS*	
TD3(DG-A)-2-DG-96A	AGASTAT	2422DB	NO	NO/NC	C38	A D/G	GERS*	
TD3(DG-A)-H7A	AGASTAT	2422DB	NO	NO/NC	C38	A D/G	GERS*	
TD4(DG-A)-2-DG-27A	AGASTAT	2422PB	NO	NO/NC	C38	A D/G	GERS*	
TD4(DG-A)-2-DG-95A	AGASTAT	2422PB	NO	NO/NC	C38	A D/G	GERS*	
TD4(DG-A)-2-DG-96A	AGASTAT	2422PB	NO	NO/NC	C38	A D/G	GERS*	
TD4(DG-A)-H7A	AGASTAT	2422PB	NO	NO/NC	C38	A D/G	GERS*	
43-1(DG-A)-RELAY SDR (A)	GE-HEA	12HEA63C238	NO	NO/NC	C38	A D/G	GERS	
43-1(DG-A)-2-DG-27A	GE-HEA	12HEA63C238	YES/NO	NO/NC	C38	A D/G	GERS*	
43-1(DG-A)-2-DG-95A	GE-HEA	12HEA63C238	YES/NO	NO/NC	C38	A D/G	GERS*	
43-1(DG-A)-2-DG-96A	GE-HEA	12HEA63C238	YES/NO	NO/NC	C38	A D/G	GERS*	
43-1(DG-A)-A312	GE-HEA	12HEA63C238	YES/NO	NO/NC	C38	A D/G	GERS*	
43-1(DG-A)-H7A	GE-HEA	12HEA63C238	YES/NO	NO/NC	C38	A D/G	GERS*	
59-A312	GE-NGV	12NGV22A1A	NO	NO	C38	A D/G	No GERS	Memo
OSVS								
43-MSSX(DG-A)-2-DG-27A	ITE	CLASS J			C38	A D/G	GERS	
43-MSSX(DG-A)-2-DG-95A	ITE	CLASS J			C38	A D/G	GERS*	
43-MSSX(DG-A)-H7A	ITE	CLASS J			C38	A D/G	GERS*	
CR4-RELAY SDR (B)					C39	B D/G	No Info	
TD3(DG-B)-2-DG-27B	AGASTAT	2422PB	NO	NO/NC	C39	B D/G	GERS	

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- Cap vs. Dem= Outlier, due to relay capacity not enveloping demand
- GERS** = MCC evaluation
- GERS* = Screened out by relay GERS, comparison to same model Relay Functionality Review
- GERS = Relay Functionality Review printed, see body of Attachment G
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- No GERS = No relay GERS available / require further evaluation
- No info = No make and model info, can't locate during walkdown
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ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
TD3(DG-B)-2-DG-95B	AGASTAT	2422PB	NO	NO/NC	C39	B D/G	GERS*	
TD3(DG-B)-2-DG-96B	AGASTAT	2422PB	NO	NO/NC	C39	B D/G	GERS*	
TD3(DG-B)-H7B	AGASTAT	2422PB	NO	NO/NC	C39	B D/G	GERS*	
TD4(DG-B)-2-DG-27B	AGASTAT	E7022PC002	YES/NO	NO	C39	B D/G	GERS	
TD4(DG-B)-2-DG-95B	AGASTAT	E7022PC002	YES/NO	NO	C39	B D/G	GERS*	
TD4(DG-B)-2-DG-96B	AGASTAT	E7022PC002	YES/NO	NO	C39	B D/G	GERS*	
TD4(DG-B)-H7B	AGASTAT	E7022PC002	YES/NO	NO	C39	B D/G	GERS*	
43-1(DG-B)-RELAY SDR (B)	GE-HEA	12HEA63C238	NO	NO/NC	C39	B D/G	GERS	
43-1(DG-B)-2-DG-27B	GE-HEA	12HEA63C238	YES/NO	NO/NC	C39	B D/G	GERS*	
43-1(DG-B)-2-DG-95B	GE-HEA	12HEA63C238	YES/NO	NO/NC	C39	B D/G	GERS*	
43-1(DG-B)-2-DG-96B	GE-HEA	12HEA63C238	YES/NO	NO/NC	C39	B D/G	GERS*	
43-1(DG-B)-A401	GE-HEA	12HEA63C238	YES/NO	NO/NC	C39	B D/G	GERS*	
43-1(DG-B)-H7B	GE-HEA	12HEA63C238	YES/NO	NO/NC	C39	B D/G	GERS*	
59-A401	GE-NGV	12NGV22A1A	NO	NO	C39	B D/G	No GERS	
43-MSSX(DG-B)-2-DG-27B	ITE	CLASS J			C39	B D/G	GERS	
43-MSSX(DG-B)-2-DG-95B	ITE	CLASS J			C39	B D/G	GERS*	
43-MSSX(DG-B)-H7B	ITE	CLASS J			C39	B D/G	GERS*	
2HCR-B0506			NO	NO	DC1	EAST DC GEAR	No Info	
2HCR-B0607			NO	NO	DC2	WEST DC GEAR	No info	
42-2-RC-402	GE-CR	CR106			NPY402	EAST DC GEAR	Bkr Cap	
42-2-RC-404	GE-CR	CR106			NPY404	WEST DC GEAR	Bkr Cap	
					RC02B	CONTROL RM		Memo
The essential relays in the ESAS Engineered Safety Actuation System cabinet have been screened out by Seismic Test Report for ESFAS Modules, Eaton/Consolidated Controls document No KED7399 dated 9/28/92. Reference also Wyle Laboratories Seismic Test Program on Seven ESFAS Modules, Test Report 42557-1, 8/24/92.								
LP1-RELAY SDR (A)					RC02B	CONTROL RM	OK***	
LP1/K530A-2-DG-27A					RC02B	CONTROL RM	OK***	
LP1/K530A-2-DG-95A					RC02B	CONTROL RM	OK***	
LP1/K530A-2-DG-96A					RC02B	CONTROL RM	OK***	
LP1/K530A-H7A					RC02B	CONTROL RM	OK***	

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ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
SEQ 0/K534C-F31A			NO	NC	RC02B	CONTROL RM	OK***	
BUS A3 LD SHED-A312			NO	NO	RC02B	CONTROL RM	OK***	
CSAS-K510A-2-CS-4.1A			NO	NO	RC02B	CONTROL RM	OK***	
K534I-A307			NO	NO	RC02B	CONTROL RM	OK***	
K534L-A307			NO	NO	RC02B	CONTROL RM	OK***	
LD SHED/K529A-A306			NO	NO	RC02B	CONTROL RM	OK***	
SIAS1/K514A-A308			NO	NO	RC02B	CONTROL RM	OK***	
SIAS1/K517A-A309			NO	NO	RC02B	CONTROL RM	OK***	
SIAS1/SEQ. 2-A311			NO	NO	RC02B	CONTROL RM	OK***	
SIAS1/SEQ 1/K515C-A306			NO	NO	RC02B	CONTROL RM	OK***	
SIAS5/SEQ1/K514B-A503			NO	NO	RC02B	CONTROL RM	OK***	
SIAS5/SEQ2/K516B-A504			NO	NO	RC02B	CONTROL RM	OK***	
UV1C/K529B-A307			NO	NO	RC02B	CONTROL RM	OK***	
SIAS/K519B-2-CH-50B			NO	NO/NC	RC02B	CONTROL RM	OK***	
SIAS/K524A-2-RB-68.1A			NO	NO/NC	RC02B	CONTROL RM	OK***	
SRAS/K511A-2-RB-13.1A			NO	NO/NC	RC02B	CONTROL RM	OK***	
					RC02C	CONTROL RM		Memo
The essential relays in the ESAS Engineered Safety Actuation System cabinet have been screened out by Seismic Test Report for ESFAS Modules, Eaton/Consolidated Controls document No KED7399 dated 9/28/92. Reference also Wyle Laboratories Seismic Test Program on Seven ESFAS Modules, Test Report 42557-1, 8/24/92.								
LP2/SEQ. 0-RELAY SDR (B)					RC02C	CONTROL RM	OK***	
LP11/K630A-2-DG-27B					RC02C	CONTROL RM	OK***	
LP11/K630A-2-DG-95B					RC02C	CONTROL RM	OK***	
LP11/K630A-2-DG-96B					RC02C	CONTROL RM	OK***	
LP11/K630A-H7B					RC02C	CONTROL RM	OK***	
CSAS-K610A-2-CS-4.1B			NO	NC	RC02C	CONTROL RM	OK***	
SEQ. 0/K634C-F31B			NO	NC	RC02C	CONTROL RM	OK***	
BUS A4 LD SHED-A401			NO	NO	RC02C	CONTROL RM	OK***	
K634L-A406			NO	NO	RC02C	CONTROL RM	OK***	
K634M-A406			NO	NO	RC02C	CONTROL RM	OK***	
LD SHED/K629A-A407			NO	NO	RC02C	CONTROL RM	OK***	
SIAS-2/K614A-A403			NO	NO	RC02C	CONTROL RM	OK***	
SIAS/K624A-2-RB-68.1B			NO	NO	RC02C	CONTROL RM	OK***	
SIAS2/SEQ. 2-A402			NO	NO	RC02C	CONTROL RM	OK***	

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ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
SIAS2/SEQ 1/K615C-A407			NO	NO	RC02C	CONTROL RM	OK***	
SIAS5/SEQ1/K614B-A503			NO	NO	RC02C	CONTROL RM	OK***	
SRAS/K611A-2-RB-13.1B			NO	NO	RC02C	CONTROL RM	OK***	
UV2C/K629B-A406			NO	NO	RC02C	CONTROL RM	OK***	
SIAS2/K634F-A404			NO	NO/NC	RC02C	CONTROL RM	OK***	

RC02E CONTROL RM Memo

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KS651B-A502			NO	NO	RC02E	CONTROL RM	OK***	
LD SHED/KS631A-A502			NO	NO	RC02E	CONTROL RM	OK***	
SIAS5/SEQ 1/K634D-A502			NO	NO	RC02E	CONTROL RM	OK***	
SIAS5/SEQ2/KS516B-A504			NO	NO	RC02E	CONTROL RM	OK***	

K-2-RC-402	GE-NGV	12NGV13A11A	YES	NC	RC05B	CONTROL RM	GERS / OK***	
K-2-RC-404	GE-NGV	12NGV13A11A	YES	NC	RC05B	CONTROL RM	OK***	

42/C-SV-4188					SV-4188	TERRY AUX FD PM	Bkr Cap	
42/O-SV-4188					SV-4188	TERRY AUX FD PM	Bkr Cap	
49-OLR-SV-4188					SV-4188	TERRY AUX FD PM	Bkr Cap	

T040 A D/G Memo

The essential relays in T040 were spot checked during the relay walkdown. SRT noted only two types of relays exist inside the cabinet, namely ITE Class J control relays or Agastat E2400s or 7000s series timing relays. For relays that does not have manufacturer information, it was assumed to be an ITE Class J control relay (of the two types of relay inside cabinet, ITE has lower capacity).

Modification for the diesel generator control system was performed in 1993, purpose was to replace the governor and its associated controls, the new control components are located in seperated wall mounted enclosure. All relays associated with the

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ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
mod have been qualified to IEEE 344-1975, no additional relay screening necessary. Reference NUSCO PA 91-056, PDCR 2-071-92, and SQR 92-83.								
4(DG-A)-2-DG-27A					T040	A D/G	GERs*	
4(DG-A)-2-DG-95A					T040	A D/G	GERs*	
4(DG-A)-2-DG-96A					T040	A D/G	GERs*	
4(DG-A)-H7A					T040	A D/G	GERs*	
5A-H7A					T040	A D/G	GERs*	
ALR-RELAY SDR (A)					T040	A D/G	GERs*	
CC1-RELAY SDR (A)					T040	A D/G	GERs*	
CCP1-RELAY SDR (A)					T040	A D/G	GERs*	
CPLA-RELAY SDR (A)					T040	A D/G	GERs*	
CR1-RELAY SDR (A)					T040	A D/G	GERs*	
CR2-RELAY SDR (A)					T040	A D/G	GERs*	
CTH1-RELAY SDR (A)					T040	A D/G	GERs*	
EOR-RELAY SDR (A)					T040	A D/G	GERs*	
EOS-RELAY SDR (A)					T040	A D/G	GERs*	
FPLA-RELAY SDR (A)					T040	A D/G	GERs*	
IL2-RELAY SDR (A)					T040	A D/G	GERs*	
OPL1-RELAY SDR (A)					T040	A D/G	GERs*	
OPL2-RELAY SDR (A)					T040	A D/G	GERs*	
OPL3-RELAY SDR (A)					T040	A D/G	GERs*	
OPS(DG-A)-2-DG-27A					T040	A D/G	GERs*	
OPS(DG-A)-2-DG-95A					T040	A D/G	GERs*	
OPS(DG-A)-2-DG-96A					T040	A D/G	GERs*	
OPS(DG-A)-A312					T040	A D/G	GERs*	
OPS(DG-A)-RELAY SDR (A)					T040	A D/G	GERs*	
OTHA-RELAY SDR (A)					T040	A D/G	GERs*	
SSW (250)(DG-A)-2-DG-27A					T040	A D/G	GERs*	
SSW (250)(DG-A)-2-DG-95A					T040	A D/G	GERs*	
SSW (250)(DG-A)-2-DG-96A					T040	A D/G	GERs*	
SSW (250)(DG-A)-H7A					T040	A D/G	GERs*	
SSW (810)(DG-A)-2-DG-27A					T040	A D/G	GERs*	
SSW (810)(DG-A)-2-DG-95A					T040	A D/G	GERs*	
SSW (810)(DG-A)-2-DG-96A					T040	A D/G	GERs*	
SSW (810)(DG-A)-A312					T040	A D/G	GERs*	
SSW (810)(DG-A)-RELAY SDR (A)					T040	A D/G	GERs*	

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ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
TD2-RELAY SDR (A)					T040	A D/G	GER S*	
5(DG-A)-H7A	AGASTAT	2422PE	YES/NO	NO/NC	T040	A D/G	GER S	
5(DG-A)-RELAY SDR (A)	AGASTAT	2422PE	YES/NO	NO/NC	T040	A D/G	GER S*	
TD6(DG-A)-H7A	AGASTAT	E7022PB002	YES/NO	NC	T040	A D/G	GER S	
TD6(DG-A)-RELAY SDR (A)	AGASTAT	E7022PB002	YES/NO	NC	T040	A D/G	GER S*	
TD7(DG-A)-2-DG-27A	AGASTAT	E7022PB004	YES/NO	NO	T040	A D/G	GER S*	
TD7(DG-A)-2-DG-95A	AGASTAT	E7022PB004	YES/NO	NO	T040	A D/G	GER S*	
TD7(DG-A)-2-DG-96A	AGASTAT	E7022PB004	YES/NO	NO	T040	A D/G	GER S*	
TD7(DG-A)-RELAY SDR (A)	AGASTAT	E7022PB004	YES/NO	NO	T040	A D/G	GER S*	
TD1(DG-A)-2-DG-27A	AGASTAT	E7022PD002	YES/NO	NO/NC	T040	A D/G	GER S*	
TD1(DG-A)-2-DG-95A	AGASTAT	E7022PD002	YES/NO	NO/NC	T040	A D/G	GER S*	
TD1(DG-A)-2-DG-96A	AGASTAT	E7022PD002	YES/NO	NO/NC	T040	A D/G	GER S*	
TD1(DG-A)-H7A	AGASTAT	E7022PD002	YES/NO	NO/NC	T040	A D/G	GER S*	
TD1(DG-A)-RELAY SDR (A)	AGASTAT	E7022PD002	YES/NO	NO/NC	T040	A D/G	GER S*	
5X-H7A	ITE	CLASS J			T040	A D/G	GER S	
CPL-RELAY SDR (A)	ITE	CLASS J			T040	A D/G	GER S*	
CT1-RELAY SDR (A)	ITE	CLASS J			T040	A D/G	GER S*	
ESS(DG-A)-H7A	ITE	CLASS J			T040	A D/G	GER S*	
ESS(DG-A)-RELAY SDR (A)	ITE	CLASS J			T040	A D/G	GER S*	
FPL-RELAY SDR (A)	ITE	CLASS J			T040	A D/G	GER S*	
LSR(DG-A)-2-DG-27A	ITE	CLASS J			T040	A D/G	GER S*	
LSR(DG-A)-2-DG-95A	ITE	CLASS J			T040	A D/G	GER S*	
LSR(DG-A)-2-DG-96A	ITE	CLASS J			T040	A D/G	GER S*	
LSR(DG-A)-H7A	ITE	CLASS J			T040	A D/G	GER S*	
OP1-RELAY SDR (A)	ITE	CLASS J			T040	A D/G	GER S*	
OP2-RELAY SDR (A)	ITE	CLASS J			T040	A D/G	GER S*	
OP3-RELAY SDR (A)	ITE	CLASS J			T040	A D/G	GER S*	
OTH-RELAY SDR (A)	ITE	CLASS J			T040	A D/G	GER S*	
SFR(DG-A)-2-DG-27A	ITE	CLASS J			T040	A D/G	GER S*	
SFR(DG-A)-2-DG-95A	ITE	CLASS J			T040	A D/G	GER S*	
SFR(DG-A)-2-DG-96A	ITE	CLASS J			T040	A D/G	GER S*	
SFR(DG-A)-H7A	ITE	CLASS J			T040	A D/G	GER S*	
SFR(DG-A)-RELAY SDR (A)	ITE	CLASS J			T040	A D/G	GER S*	
TD1X-H7A	ITE	CLASS J			T040	A D/G	GER S*	
5X-A312	ITE	CLASS J	NO	NO	T040	A D/G	GER S*	
HSR(DG-A)-2-DG-27A	ITE	CLASS J	NO	NO	T040	A D/G	GER S*	
HSR(DG-A)-2-DG-95A	ITE	CLASS J	NO	NO	T040	A D/G	GER S*	
HSR(DG-A)-2-DG-96A	ITE	CLASS J	NO	NO	T040	A D/G	GER S*	

STATUS Notes:

- Accept = Further circuit review by lead relay reviewers determined contact Chatter Acceptable
- Bad if non-1E = Relay is a Bad Actor if it was procured non-1E
- Bkr Cap = Screened out by breaker capacity, i.e. 42s, 49s, 52s devices
- Cap vs. Dem = Outlier, due to relay capacity not enveloping demand
- GER S** = MCC evaluation
- GER S* = Screened out by relay GERS, comparison to same model Relay Functionality Review
- GEPS = Relay Functionality Review printed, see body of Attachment G
- No info = No make and model info, can't locate during walkdown
- No GERS = No relay GERS available / require further evaluation
- No info = No make and model info, can't locate during walkdown
- OK*** = Relay capacity acceptable, host cabinet is an outlier due to interactions or capacity not meeting demand
- SWGR GERS = Further circuit review determined contact is screened out using SWGR capacity

ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
HSR(DG-A)-A312	ITE	CLASS J	NO	NO	T040	A D/G	GERS*	
HSR(DG-A)-H7A	ITE	CLASS J	NO	NO	T040	A D/G	GERS*	
SDR (A) (Note 1)-2-DG-27A	ITE	CLASS J	NO	NO	T040	A D/G	GERS*	
SDR (A) (Note 1)-2-DG-95A	ITE	CLASS J	NO	NO	T040	A D/G	GERS*	
SDR (A) (Note 1)-2-DG-96A	ITE	CLASS J	NO	NO	T040	A D/G	GERS*	
SDR (A) (Note 1)-A312	ITE	CLASS J	NO	NO	T040	A D/G	GERS*	
SDR (A) (Note 1)-H7A	ITE	CLASS J	NO	NO	T040	A D/G	GERS*	

T041 B D/G Memo

The essential relays in T041 were spot checked during the relay walkdown. SRT noted only two types of relays exist inside the cabinet, namely ITE Class J control relays or Agastat E2400s or 7000s series timing relays. For relays that does not have manufacturer information, it was assumed to be an ITE Class J control relay (of the two types of relay inside cabinet, ITE has lower capacity).

Modification for the diesel generator control system was performed in 1993, purpose was to replace the governor and its associated controls, the new control components are located in seperated wall mounted enclosure. All relays associated with the mod have been qualified to IEEE 344-1975, no additional relay screening necessary. Reference NUSCO PA 91-056, PDCR 2-071-92, and SQR 92-83.

4(DG-B)-2-DG-27B					T041	B D/G	GERS*	
4(DG-B)-2-DG-95B					T041	B D/G	GERS*	
4(DG-B)-2-DG-96B					T041	B D/G	GERS*	
4(DG-B)-H7B					T041	B D/G	GERS*	
5A-H7B					T041	B D/G	GERS*	
ALR-RELAY SDR (B)					T041	B D/G	GERS*	
CC1-RELAY SDR (B)					T041	B D/G	GERS*	
CCPA-RELAY SDR (B)					T041	B D/G	GERS*	
CR1-RELAY SDR (B)					T041	B D/G	GERS*	
CR2-RELAY SDR (B)					T041	B D/G	GERS*	
CTH1-RELAY SDR (B)					T041	B D/G	GERS*	
EOR-RELAY SDR (B)					T041	B D/G	GERS*	
EOS-RELAY SDR (B)					T041	B D/G	GERS*	

STATUS Notes:

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 Bad if non-1E = Relay is a Bad Actor if it was procured non-1E
 Bkr Cap = Screened out by breaker capacity, i.e. 42s, 49s, 52s devices
 Cap vs. Dem= Outlier, due to relay capacity not enveloping demand
 GERS** = MCC evaluation
 GERS* = Screened out by relay GERS, comparison to same model Relay Functionality Review
 GERS = Relay Functionality Review printed, see body of Attachment G
 No info = No make and model info, can't locate during walkdown
 No GERS = No relay GERS available / require further evaluation
 No info = No make and model info, can't locate during walkdown
 OK*** = Relay capacity acceptable, host cabinet is an outlier due to interactions or capacity not meeting demand
 SWGR GERS = Further circuit review determined contact is screened out using SWGR capacity

ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
FPLA-RELAY SDR (B)					T041	B D/G	GERS*	
IL2-RELAY SDR (B)					T041	B D/G	GERS*	
OPL1-RELAY SDR (B)					T041	B D/G	GERS*	
OPL2-RELAY SDR (B)					T041	B D/G	GERS*	
OPL3-RELAY SDR (B)					T041	B D/G	GERS*	
OPS(DG-B)-2-DG-27B					T041	B D/G	GERS*	
OPS(DG-B)-2-DG-95B					T041	B D/G	GERS*	
OPS(DG-B)-2-DG-96B					T041	B D/G	GERS*	
OPS(DG-B)-A401					T041	B D/G	GERS*	
OPS(DG-B)-H7B					T041	B D/G	GERS*	
OPS(DG-B)-RELAY SDR (B)					T041	B D/G	GERS*	
OTHA-RELAY SDR (B)					T041	B D/G	GERS*	
SSW (250)(DG-B)-2-DG-27B					T041	B D/G	GERS*	
SSW (250)(DG-B)-2-DG-95B					T041	B D/G	GERS*	
SSW (250)(DG-B)-2-DG-96B					T041	B D/G	GERS*	
SSW (250)(DG-B)-H7B					T041	B D/G	GERS*	
SSW (810)(DG-B)-2-DG-27B					T041	B D/G	GERS*	
SSW (810)(DG-B)-2-DG-95B					T041	B D/G	GERS*	
SSW (810)(DG-B)-2-DG-96B					T041	B D/G	GERS*	
SSW (810)(DG-B)-A401					T041	B D/G	GERS*	
SSW (810)(DG-B)-RELAY SDR (B)					T041	B D/G	GERS*	
TD2-RELAY SDR (B)					T041	B D/G	GERS*	
TD6(DG-B)-RELAY SDR (B)					T041	B D/G	GERS*	
TD7(DG-B)-2-DG-27B					T041	B D/G	GERS*	
TD7(DG-B)-2-DG-95B					T041	B D/G	GERS*	
TD7(DG-B)-2-DG-96B					T041	B D/G	GERS*	
TD7(DG-B)-RELAY SDR (B)					T041	B D/G	GERS*	
TD1(DG-B)-2-DG-27B	AGASTAT	2422PC	YES/NO	NO/NC	T041	B D/G	GERS	
TD1(DG-B)-2-DG-95B	AGASTAT	2422PC	YES/NO	NO/NC	T041	B D/G	GERS*	
TD1(DG-B)-2-DG-96B	AGASTAT	2422PC	YES/NO	NO/NC	T041	B D/G	GERS*	
TD1(DG-B)-H7B	AGASTAT	2422PC	YES/NO	NO/NC	T041	B D/G	GERS*	
TD1(DG-B)-RELAY SDR (B)	AGASTAT	2422PC	YES/NO	NO/NC	T041	B D/G	GERS*	
5(DG-B)-H7B	AGASTAT	2422PE	YES/NO	NO/NC	T041	B D/G	GERS*	
5(DG-B)-RELAY SDR (B)	AGASTAT	2422PE	YES/NO	NO/NC	T041	B D/G	GERS*	
TD6(DG-B)-H7B	AGASTAT	7022PA	YES/NO	NC	T041	B D/G	GERS	
5X-H7B	ITE	CLASS J			T041	B D/G	GERS	
CPL-RELAY SDR (B)	ITE	CLASS J			T041	B D/G	GERS*	
CT1-RELAY SDR (B)	ITE	CLASS J			T041	B D/G	GERS*	

STATUS Notes:

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- Cap vs. Dem= Outlier, due to relay capacity not enveloping demand
- GERS** = MCC evaluation
- GERS* = Screened out by relay GERS, comparison to same model Relay Functionality Review
- GERS = Relay Functionality Review printed, see body of Attachment G
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- SWGR GERS = Further circuit review determined contact is screened out using SWGR capacity

ID	MAKE	DESC	RLY_ENER	NO_NC	CAB_ID	LOCATION	STATUS	REMARK
ESS(DG-B)-H7B	ITE	CLASS J			T041	B D/G	GRS*	
ESS(DG-B)-RELAY SDR (B)	ITE	CLASS J			T041	B D/G	GRS*	
FPL-RELAY SDR (B)	ITE	CLASS J			T041	B D/G	GRS*	
LSR(DG-B)-2-DG-27B	ITE	CLASS J			T041	B D/G	GRS*	
LSR(DG-B)-2-DG-95B	ITE	CLASS J			T041	B D/G	GRS*	
LSR(DG-B)-2-DG-96B	ITE	CLASS J			T041	B D/G	GRS*	
LSR(DG-B)-H7B	ITE	CLASS J			T041	B D/G	GRS*	
OP1-RELAY SDR (B)	ITE	CLASS J			T041	B D/G	GRS*	
OP2-RELAY SDR (B)	ITE	CLASS J			T041	B D/G	GRS*	
OP3-RELAY SDR (B)	ITE	CLASS J			T041	B D/G	GRS*	
OTH-RELAY SDR (B)	ITE	CLASS J			T041	B D/G	GRS*	
SFR(DG-B)-2-DG-27B	ITE	CLASS J			T041	B D/G	GRS*	
SFR(DG-B)-2-DG-95B	ITE	CLASS J			T041	B D/G	GRS*	
SFR(DG-B)-2-DG-96B	ITE	CLASS J			T041	B D/G	GRS*	
SFR(DG-B)-H7B	ITE	CLASS J			T041	B D/G	GRS*	
SFR(DG-B)-RELAY SDR (B)	ITE	CLASS J			T041	B D/G	GRS*	
TD1X-H7B	ITE	CLASS J			T041	B D/G	GRS*	
5X-A401	ITE	CLASS J			T041	B D/G	GRS*	
HSR(DG-B)-2-DG-27B	ITE	CLASS J	NO	NO	T041	B D/G	GRS*	
HSR(DG-B)-2-DG-95B	ITE	CLASS J	NO	NO	T041	B D/G	GRS*	
HSR(DG-B)-2-DG-96B	ITE	CLASS J	NO	NO	T041	B D/G	GRS*	
HSR(DG-B)-A401	ITE	CLASS J	NO	NO	T041	B D/G	GRS*	
HSR(DG-B)-H7B	ITE	CLASS J	NO	NO	T041	B D/G	GRS*	
SDR (B) (Note 2)-2-DG-27B	ITE	CLASS J	NO	NO	T041	B D/G	GRS*	
SDR (B) (Note 2)-2-DG-95B	ITE	CLASS J	NO	NO	T041	B D/G	GRS*	
SDR (B) (Note 2)-2-DG-96B	ITE	CLASS J	NO	NO	T041	B D/G	GRS*	
SDR (B) (Note 2)-A401	ITE	CLASS J	NO	NO	T041	B D/G	GRS*	
SDR (B) (Note 2)-H7B	ITE	CLASS J	NO	NO	T041	B D/G	GRS*	

STATUS Notes:
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 OK*** = Relay capacity acceptable, host cabinet is an outlier due to interactions of capacity not meeting demand
 SWGR GERS = Further circuit review determined contact is screened out using SWGR capacity

USI A-46 RELAY EVALUATION REPORT
FOR MILLSTONE UNIT 2

ATTACHMENT G

MILLSTONE UNIT 2
LIST AND DESCRIPTION OF UNRESOLVED RELAY OUTLIERS

(12 Pages)

TITLE	NO. OF PAGES
M2 RELAY CONTACTS OUTLIER SUMMARY LIST	2
OUTLIER SEISMIC VERIFICATION SHEET - BAD ACTOR	2
OUTLIER SEISMIC VERIFICATION SHEET - CAPACITY VS. DEMAND	3
OUTLIER SEISMIC VERIFICATION SHEET - NO GERS	2
OUTLIER SEISMIC VERIFICATION SHEET - NO GERS	1
OUTLIER SEISMIC VERIFICATION SHEET - NO INFO	2
TOTAL NUMBER OF PAGES FOR SEWS >>>	12

M2 A-46 OUTLIER RELAY CONTACTS

M2OUTRLY.XLS

12/14/95

No.	CONTACT_ID	MAKE	DESC	RELAY_ENE	NO_NC	DRAWING	CAB_ID	BLDG	ELEV	DUP	RLY	LOCATION	RLY_REVIEW
1	87A/A312-RELAY SDR (A)	GE-IJD	12IJD52A11A	NO	NO	32041 SH. 1	24C	AB	31.50			A312	Bad if non-1E / Cap vs. Dem
2	87B/A312-RELAY SDR (A)	GE-IJD	12IJD52A11A	NO	NO	32041 SH. 1	24C	AB	31.50			A312	Bad if non-1E / Cap vs. Dem
3	87C/A312-RELAY SDR (A)	GE-IJD	12IJD52A11A	NO	NO	32041 SH. 1	24C	AB	31.50			A312	Bad if non-1E / Cap vs. Dem
4	87A/A401-RELAY SDR (B)	GE-IJD	12IJD52A11A	NO	NO	32041 SH. 19	24D	AB	54.50			A401	Bad if non-1E / Cap vs. Dem
5	87B/A401-RELAY SDR (B)	GE-IJD	12IJD52A11A	NO	NO	32041 SH. 19	24D	AB	54.50			A401	Bad if non-1E / Cap vs. Dem
6	87C/A401-RELAY SDR (B)	GE-IJD	12IJD52A11A	NO	NO	32041 SH. 19	24D	AB	54.50			A401	Bad if non-1E / Cap vs. Dem
1	86-A312	GE-HEA	HEA61B	NO	NO	32041 SH. 1	24C	AB	31.50			A312	Cap vs Dem
2	86/A312-RELAY SDR (A)	GE-HEA	HEA61B	NO	NO	32041 SH. 7	24C	AB	31.50			A312	Cap vs Dem
3	86-2-A305	GE-HFA	12HFA151A2H	NO	NO	32002 SH. 11	24C	AB	31.50	Y		A304	Cap vs Dem
4	86-2/22S3-24C2-A312	GE-HFA	12HFA151A2H	NO	NO	32041 SH. 1	24C	AB	31.50			A302	Cap vs Dem
5	86X-A305	GE-HGA	HGA11W	NO	NO	32002 SH. 13	24C	AB	31.50			A305	Cap vs Dem
6	50/51A-A303	GE-IAC	12IAC53B104A	NO	NO	32002 SH. 3	24C	AB	31.50			A303	Cap vs Dem
7	50/51A-A306	GE-IAC	12IAC66K8A	NO	NO	32013 SH. 5	24C	AB	31.50			A306	Cap vs Dem
8	50/51A-A307	GE-IAC	12IAC66K8A	NO	NO	30044 SH. 3	24C	AB	31.50			A307	Cap vs Dem
9	50/51B-A303	GE-IAC	12IAC53B104A	NO	NO	32002 SH. 3	24C	AB	31.50			A303	Cap vs Dem
10	50/51B-A306	GE-IAC	12IAC66K8A	NO	NO	32013 SH. 5	24C	AB	31.50			A306	Cap vs Dem
11	50/51B-A307	GE-IAC	12IAC66K8A	NO	NO	30044 SH. 3	24C	AB	31.50			A307	Cap vs Dem
12	50/51C-A303	GE-IAC	12IAC53B104A	NO	NO	32002 SH. 3	24C	AB	31.50			A303	Cap vs Dem
13	50/51C-A306	GE-IAC	12IAC66K8A	NO	NO	32013 SH. 5	24C	AB	31.50			A306	Cap vs Dem
14	50/51C-A307	GE-IAC	12IAC66K8A	NO	NO	30044 SH. 3	24C	AB	31.50			A307	Cap vs Dem
15	51-A312	GE-IAC	12IAC53A3A	NO	NO	32002 SH. 1	24C	AB	31.50	Y		A302	Cap vs Dem
16	51A-A305	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 11	24C	AB	31.50	Y		A505	Cap vs Dem
17	51A-A305	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 11	24C	AB	31.50			A305	Cap vs Dem
18	51A-A305	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 11	24C	AB	31.50	Y		A304	Cap vs Dem
19	51B-A305	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 11	24C	AB	31.50			A304	Cap vs Dem
20	51B-A305	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 13	24C	AB	31.50			A305	Cap vs Dem
21	51C-A305	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 11	24C	AB	31.50			A304	Cap vs Dem
22	51C-A305	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 13	24C	AB	31.50			A305	Cap vs Dem
23	51GS-A305	GE-IAC	12IAC53A3A	NO	NO	32002 SH. 11	24C	AB	31.50	Y		A304	Cap vs Dem
24	51GS-A305	GE-IAC	12IAC53A3A	NO	NO	32002 SH. 11	24C	AB	31.50			A305	Cap vs Dem
25	51GS-A312	GE-IAC	12IAC53A3A	NO	NO	32002 SH. 1	24C	AB	31.50	Y		A302	Cap vs Dem
26	50-A312	GE-PJC	12PJC11X3A	NO	NO	32041 SH. 1	24C	AB	31.50			A311A	Cap vs Dem
27	50GS-A303	GE-PJC	121PJC11AV1A	NO	NO	32002 SH. 3	24C	AB	31.50			A303	Cap vs Dem
28	50GS-A306	GE-PJC	121PJC11AV1A	NO	NO	32013 SH. 5	24C	AB	31.50			A306	Cap vs Dem
29	50GS-A307	GE-PJC	121PJC11AV1A	NO	NO	32012 SH. 11, 30044 SH. 3	24C	AB	31.50			A307	Cap vs Dem
30	50GS-A312	GE-PJC	12PJC11AV	NO	NO	32041 SH. 1	24C	AB	31.50			A312	Cap vs Dem
31	86-A401	GE-HEA	HEA61B	NO	NO	30041 SH. 2	24D	AB	54.50			A401	Cap vs Dem
32	86/15G-13U-2 (Note 15)-A408	GE-HEA	HEA61B	NO	NO/NC	32041 SH. 2	24D	AB	54.50			A401	Cap vs Dem
33	86/A401-RELAY SDR (B)	GE-HEA	HEA61B	NO	NO	32041 SH. 19	24D	AB	54.50			A401	Cap vs Dem
34	86-1/22S3-24D-2 (Note 16)-A40	GE-HFA	12HFA151A2H	NO	NO	32002 SH. 2	24D	AB	54.50	Y		A411	Cap vs Dem
35	86-1/24D-1T-2-A408	GE-HFA	12HFA151A2H	NO	NO	32002 SH. 12	24D	AB	54.50			A410	Cap vs Dem
36	86-2-A408	GE-HFA	12HFA151A2H	NO	NO	32002 SH. 12	24D	AB	54.50	Y		A410	Cap vs Dem
37	86-2-A408	GE-HFA	12HFA151A2H	NO	NC	32002 SH. 12	24D	AB	31.50	Y		A505	Cap vs Dem
38	86-2/22S3-24D-2-A401	GE-HFA	12HFA151A2H	NO	NO	32041 SH. 2	24D	AB	54.50			A411	Cap vs Dem
39	86-A408	GE-HFA	12HFA151A2H	NO	NC	32002 SH. 14	24D	AB	54.50			A408	Cap vs Dem
40	86X-A408	GE-HGA	HGA11W	NO	NO	32002 SH. 14	24D	AB	54.50			A408	Cap vs Dem
41	50/51A-A406	GE-IAC	12IAC66K8A	NO	NO	30044 SH. 8	24D	AB	54.50			A406	Cap vs Dem
42	50/51A-A407	GE-IAC	12IAC66K8A	NO	NO	30044 SH. 8	24D	AB	54.50			A407	Cap vs Dem
43	50/51A-A409	GE-IAC	12IAC53B104A	NO	NO	30044 SH. 9	24D	AB	54.50			A409	Cap vs Dem

M2 A-46 OUTLIER RELAY CONTACTS

M2OUTRLY XLS

12/14/95

No.	CONTACT_ID	MAKE	DESC	RELAY_ENE	NO_NC	DRAWING	CAB_ID	BLDG	ELEV	DUP	RLY	LOCATION	RLY_REVIEW
44	50/51B-A406	GE-IAC	12IAC66K8A	NO	NO	30044 SH. 8	24D	AB	54.50			A406	Cap vs. Dem
45	50/51B-A407	GE-IAC	12IAC66K8A	NO	NO	30044 SH. 8	24D	AB	54.50			A407	Cap vs. Dem
46	50/51B-A409	GE-IAC	12IAC53B104A	NO	NO	30044 SH. 9	24D	AB	54.50			A409	Cap vs. Dem
47	50/51C-A406	GE-IAC	12IAC66K8A	NO	NO	30044 SH. 8	24D	AB	54.50			A406	Cap vs. Dem
48	50/51C-A407	GE-IAC	12IAC66K8A	NO	NO	30044 SH. 8	24D	AB	54.50			A407	Cap vs. Dem
49	50/51C-A409	GE-IAC	12IAC53B104A	NO	NO	30044 SH. 9	24D	AB	54.50			A409	Cap vs. Dem
50	51-A401	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 2	24D	AB	54.50	Y		A411	Cap vs. Dem
51	51A-A408	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 14	24D	AB	54.50			A408	Cap vs. Dem
52	51A-A408	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 12	24D	AB	54.50			A410	Cap vs. Dem
53	51B-A408	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 14	24D	AB	54.50			A408	Cap vs. Dem
54	51B-A408	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 12	24D	AB	54.50			A410	Cap vs. Dem
55	51C-A408	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 14	24D	AB	54.50			A408	Cap vs. Dem
56	51C-A408	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 12	24D	AB	54.50			A410	Cap vs. Dem
57	51GS-A401	GE-IAC	IAC53A	NO	NO	32002 SH. 2	24D	AB	54.50	Y		A411	Cap vs. Dem
58	51GS-A408	GE-IAC	12IAC53A3A	NO	NO	32002 SH. 12	24D	AB	54.50	Y		A410	Cap vs. Dem
59	51GS-A408	GE-IAC	12IAC53A3A	NO	NO	30044 SH. 9	24D	AB	54.50			A408	Cap vs. Dem
60	50-A401	GE-PJC	12PJC11X3A	NO	NO	32041 SH. 2	24D	AB	54.50			A401	Cap vs. Dem
61	50GS-A401	GE-PJC	12PJC11AV1A	NO	NO	32041 SH. 2	24D	AB	54.50			A401	Cap vs. Dem
62	50GS-A406	GE-PJC	12PJC11AV1A	NO	NO	32012 SH. 12, 30044 SH. 8	24D	AB	54.50			A406	Cap vs. Dem
63	50GS-A407	GE-PJC	12PJC11AV1A	NO	NO	30044 SH. 8	24D	AB	54.50			A407	Cap vs. Dem
64	50GS-A409	GE-PJC	12PJC11AV1A	NO	NO	30044 SH. 9	24D	AB	54.50			A409	Cap vs. Dem
65	86-1/21S3-24E-2-A408	GE-HFA	HFA51A	NO	NO	32002 SH. 15	24E	AB	31.50	Y		A505	Cap vs. Dem
66	86-2-A305	GE-HFA	HFA51A	NO	NO	32002 SH. 15	24E	AB	31.50	Y		A505	Cap vs. Dem
67	50/51A-A502	GE-IAC	12IAC66K8A	NO	NO	30044 SH. 11	24E	AB	31.50			A502	Cap vs. Dem
68	50/51B-A502	GE-IAC	12IAC66K8A	NO	NO	30044 SH. 11	24E	AB	31.50			A502	Cap vs. Dem
69	50/51C-A502	GE-IAC	12IAC66K8A	NO	NO	30044 SH. 11	24E	AB	31.50			A502	Cap vs. Dem
70	51A-A408	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 15	24E	AB	31.50			A505	Cap vs. Dem
71	51B-A305	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 15	24E	AB	31.50			A505	Cap vs. Dem
72	51B-A408	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 15	24E	AB	31.50			A505	Cap vs. Dem
73	51C-A305	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 15	24E	AB	31.50			A505	Cap vs. Dem
74	51C-A408	GE-IAC	12IAC53A101A	NO	NO	32002 SH. 15	24E	AB	31.50			A505	Cap vs. Dem
75	50GS-A305	GE-PJC	121PJC11AV1A	NO	NO	32002 SH. 15	24E	AB	31.50	Y		A505	Cap vs. Dem
76	50GS-A408	GE-PJC	121PJC11AV1A	NO	NO	32002 SH. 15	24E	AB	31.50	Y		A505	Cap vs. Dem
77	50GS-A502	GE-PJC	121PJC11AV1A	NO	NO	32013 SH. 6	24E	AB	31.50			A502	Cap vs. Dem
1	32-A312	GE-ICW	12ICW51A2A	NO	NO	32041 SH. 1	24C	AB	31.50			A312	No GERS
2	51V-A312	GE-IJCV	12IJCV52A9A	NO	NO	32041 SH. 1	24C	AB	31.50			A312	No GERS
3	32-A401	GE-ICW	12ICW51A2A	NO	NO	32041 SH. 2	24D	AB	54.50			A401	No GERS
4	51V-A401	GE-IJCV	12IJCV52A9A	NO	NO	32041 SH. 2	24D	AB	54.50			A401	No GERS
5	59-A312	GE-NGV	12NGV22A1A	NO	NO	32041 SH. 1	C38	WH	14.50			C38	No GERS
6	59-A401	GE-NGV	12NGV22A1A	NO	NO	32041 SH. 2	C39	WH	14.50			C39	No GERS
1	CF4-RELAY SDR (A)					32041 SH. 6	C38	WH	14.50			C38	No Info
2	CR4-RELAY SDR (B)					32041 SH. 18	C39	WH	14.50			C39	No Info
3	2HCR-B0506			NO	NO	32003 SH. 31	DC1	AB	14.50			DC1	No Info
4	2HCR-B0607			NO	NO	32003 SH. 41	DC2	AB	14.50			DC2	No Info

NUSCO MILLSTONE UNIT 2		GIP Rev 2, Corrected 2/14/92
OUTLIER SEISMIC VERIFICATION SHEET (OSVS)		Sheet 1 of 2
ID : 87A/A312-RELAY SDR (A) (Rev. 0)	Class : RELAY	
Description : 12IJD52A11A		
Building : AB	Floor El. : 31.50	Room, Row/Col : LOWER 4160V

1. OUTLIER ISSUE DEFINITION - Essential Relays

- a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	X
Mounting, Type, Location	
Other	X

- b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

Relay is considered Bad Actor if Non Class 1E.

Capacity does not envelop Demand.

The contacts listed in the comment section are being tracked by this OSVS.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

- a. Define proposed method(s) for resolving outlier.

NNECO to verified if relays were purchased Class 1E.

Pursue the possibility of an Operator Action to reset relays for the Medium Voltage Switchgear.

- b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

ID	MAKE	DESC RELAY	ENER	NO_NC	CAB_ID
87A/A312-RELAY SDR (A)	GE-IJD	12IJD52A11A	NO	NO	24C
87B/A312-RELAY SDR (A)	GE-IJD	12IJD52A11A	NO	NO	24C
87C/A312-RELAY SDR (A)	GE-IJD	12IJD52A11A	NO	NO	24C
87A/A401-RELAY SDR (B)	GE-IJD	12IJD52A11A	NO	NO	24D
87B/A401-RELAY SDR (B)	GE-IJD	12IJD52A11A	NO	NO	24D
87C/A401-RELAY SDR (B)	GE-IJD	12IJD52A11A	NO	NO	24D

NUSCO MILLSTONE UNIT 2		GIP Rev 2, Corrected 2/14/92
OUTLIER SEISMIC VERIFICATION SHEET (OSVS)		Sheet 1 of 3
ID : 86-A312 (Rev. 0)	Class : RELAY	
Description : HEA61B		
Building : AB	Floor El. : 31.50	Room, Row/Col : LOWER 4160V

1. OUTLIER ISSUE DEFINITION - Essential Relays

- a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	X
Mounting, Type, Location	
Other	

- b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

Capacity does not envelop Demand.

The contacts listed in the comment section are being tracked by this OSVS.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

- a. Defined proposed method(s) for resolving outlier.

NNECO to perform testing of these relays in conjunction with breaker tripping circuit / devices to determine if lockout / seal-in will occur.

Pursue the possibility of an Operator Action to reset relays for the Medium Voltage Switchgear.

- b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

ID	MAKE	DESC	RELAY_ENER	NO_NC	CAB_ID
86-A312	GE-HEA	HEA61B	NO	NO	24C
86/A312-RELAY SDR (A)	GE-HEA	HEA61B	NO	NO	24C
86-2-A305	GE-HFA	12HFA151A2H	NO	NO	24C
86-2/22S3-24C2-A312	GE-HFA	12HFA151A2H	NO	NO	24C
86X-A305	GE-HGA	HGA11W	NO	NO	24C
51A-A305	GE-IAC	12IAC53A101A	NO	NO	24C
51A-A305	GE-IAC	12IAC53A101A	NO	NO	24C
51A-A305	GE-IAC	12IAC53A101A	NO	NO	24C
51B-A305	GE-IAC	12IAC53A101A	NO	NO	24C
51B-A305	GE-IAC	12IAC53A101A	NO	NO	24C
51C-A305	GE-IAC	12IAC53A101A	NO	NO	24C
51C-A305	GE-IAC	12IAC53A101A	NO	NO	24C
51-A312	GE-IAC	12IAC53A3A	NO	NO	24C
51GS-A305	GE-IAC	12IAC53A3A	NO	NO	24C

**NUSCO MILLSTONE UNIT 2
OUTLIER SEISMIC VERIFICATION SHEET (OSVS)**

GIP Rev 2, Corrected 2/14/92
Sheet 2 of 3

ID : 86-A312 (Rev. 0)	Class : RELAY
Description : HEA61B	
Building : AB	Floor El. : 31.50
Room, Row/Col : LOWER 4160V	

ID	MAKE	DESC	RELAY_ENER	NO_NC	CAB_ID
51GS-A305	GE-IAC	12IAC53A3A	NO	NO	24C
51GS-A312	GE-IAC	12IAC53A3A	NO	NO	24C
50/51A-A303	GE-IAC	12IAC53B104A	NO	NO	24C
50/51B-A303	GE-IAC	12IAC53B104A	NO	NO	24C
50/51C-A303	GE-IAC	12IAC53B104A	NO	NO	24C
50/51A-A306	GE-IAC	12IAC66K8A	NO	NO	24C
50/51A-A307	GE-IAC	12IAC66K8A	NO	NO	24C
50/51B-A306	GE-IAC	12IAC66K8A	NO	NO	24C
50/51B-A307	GE-IAC	12IAC66K8A	NO	NO	24C
50/51C-A306	GE-IAC	12IAC66K8A	NO	NO	24C
50/51C-A307	GE-IAC	12IAC66K8A	NO	NO	24C
50GS-A303	GE-PJC	121PJC11AV1A	NO	NO	24C
50GS-A306	GE-PJC	121PJC11AV1A	NO	NO	24C
50GS-A307	GE-PJC	121PJC11AV1A	NO	NO	24C
50GS-A312	GE-PJC	12PJC11AV	NO	NO	24C
50-A312	GE-PJC	12PJC11X3A	NO	NO	24C
86-A401	GE-HEA	HEA61B	NO	NO	24D
86/A401-RELAY SDR (B)	GE-HEA	HEA61B	NO	NO	24D
86/15G-13U-2 (Note 15)-A408	GE-HEA	HEA61B	NO	NO/NC	24D
86-2-A408	GE-HFA	12HFA151A2H	NO	NC	24D
86-A408	GE-HFA	12HFA151A2H	NO	NC	24D
86-1/22S3-24D-2 (Note 16)-A408	GE-HFA	12HFA151A2H	NO	NO	24D
86-1/24D-1T-2-A408	GE-HFA	12HFA151A2H	NO	NO	24D
86-2-A408	GE-HFA	12HFA151A2H	NO	NO	24D
86-2/22S3-24D-2-A401	GE-HFA	12HFA151A2H	NO	NO	24D
86X-A408	GE-HGA	HGA11W	NO	NO	24D
51-A401	GE-IAC	12IAC53A101A	NO	NO	24D
51A-A408	GE-IAC	12IAC53A101A	NO	NO	24D
51A-A408	GE-IAC	12IAC53A101A	NO	NO	24D
51B-A408	GE-IAC	12IAC53A101A	NO	NO	24D
51B-A408	GE-IAC	12IAC53A101A	NO	NO	24D
51C-A408	GE-IAC	12IAC53A101A	NO	NO	24D
51C-A408	GE-IAC	12IAC53A101A	NO	NO	24D
51GS-A408	GE-IAC	12IAC53A3A	NO	NO	24D
51GS-A408	GE-IAC	12IAC53A3A	NO	NO	24D
50/51A-A409	GE-IAC	12IAC53B104A	NO	NO	24D
50/51B-A409	GE-IAC	12IAC53B104A	NO	NO	24D
50/51C-A409	GE-IAC	12IAC53B104A	NO	NO	24D
50/51A-A406	GE-IAC	12IAC66K8A	NO	NO	24D
50/51A-A407	GE-IAC	12IAC66K8A	NO	NO	24D
50/51B-A406	GE-IAC	12IAC66K8A	NO	NO	24D
50/51B-A407	GE-IAC	12IAC66K8A	NO	NO	24D
50/51C-A406	GE-IAC	12IAC66K8A	NO	NO	24D
50/51C-A407	GE-IAC	12IAC66K8A	NO	NO	24D
51GS-A401	GE-IAC	IAC53A	NO	NO	24D
50GS-A401	GE-PJC	12PJC11AV1A	NO	NO	24D
50GS-A406	GE-PJC	12PJC11AV1A	NO	NO	24D
50GS-A407	GE-PJC	12PJC11AV1A	NO	NO	24D
50GS-A409	GE-PJC	12PJC11AV1A	NO	NO	24D

NUSCO MILLSTONE UNIT 2		GIP Rev 2, Corrected 2/14/92	
OUTLIER SEISMIC VERIFICATION SHEET (OSVS)		Sheet 1 of 2	
ID : 32-A312 (Rev. 0)	Class : RELAY		
Description : 12ICW51A2A			
Building : AB	Floor El. : 31.50	Room, Row/Col : LOWER 4160V	

1. OUTLIER ISSUE DEFINITION - Essential Relays

- a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Mounting, Type, Location	
Other	X

- b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

The subject relay does not have GERS information. All relays without GERS informations are being tracked by this OSVS and are listed in the comment section.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

- a. Defined proposed method(s) for resolving outlier.

Pursue seismic capacity through testing or vendor data.
Pursue the possibility of an Operator Action to reset relays for the Medium Voltage Switchgear.

- b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

ID	MAKE	DESC RELAY	ENER	NO_NC	CAB_ID
32-A312	GE-ICW	12ICW51A2A	NO	NO	24C
32-A401	GE-ICW	12ICW51A2A	NO	NO	24D
51V-A312	GE-IJCV	12IJCV52A9A	NO	NO	24C
51V-A401	GE-IJCV	12IJCV52A9A	NO	NO	24D

NUSCO MILLSTONE UNIT 2		GIP Rev 2, Corrected 2/14/92
OUTLIER SEISMIC VERIFICATION SHEET (OSVS)		Sheet 1 of 2
ID : CF4-RELAY SDR (A) (Rev. 0)	Class : RELAY	
Description :		
Building : WH	Floor El. : 14.50	Room, Row/Col : A D/G

1. OUTLIER ISSUE DEFINITION - Essential Relays

- a. Identify all the screening guidelines which are not met. (Check more than one if several guidelines could not be satisfied.)

Capacity vs. Demand	
Mounting, Type, Location	
Other	X

- b. Describe all the reasons for the outlier (i.e., if all the listed outlier issues were resolved, then the signatories would consider this item of equipment to be verified for seismic adequacy).

Unknown make and model, unable to locate during walkdown. The contacts listed below are being tracked by this OSVS.

2. PROPOSED METHOD OF OUTLIER RESOLUTION (Optional)

- a. Defined proposed method(s) for resolving outlier.

The status of these contacts is currently indeterminate. This requires further investigation by MP2 Design Engineering.

NNECO MP2 Elec Dept to determine make, model, and location.

- b. Provide information needed to implement proposed method(s) for resolving outlier (e.g., estimate of fundamental frequency).

3. COMMENTS

ID	MAKE	DESC	RELAY_ENER	NO_NC	CAB_ID
CF4-RELAY SDR (A)					C38
CR4-RELAY SDR (B)					C39
2HCR-B0506			NO	NO	DC1
2HCR-B0607			NO	NO	DC2

**USI A-46 RELAY EVALUATION REPORT
FOR MILLSTONE UNIT 2**

ATTACHMENT H

**MILLSTONE UNIT 2
ESSENTIAL RELAYS DETAILED SEISMIC CAPACITY VS. DEMAND EVALUATIONS**

(112 Pages)