

NUSCO-12179-MILLSTONE UNIT 3
SEISMIC AND DYNAMIC QUALIFICATION STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT

INTRODUCTION

THE MASTER LISTING OF SEISMIC AND DYNAMIC QUALIFICATION SUMMARY AND STATUS OF SAFETY-RELATED EQUIPMENT (REPORT NO. SQT-001) INCLUDES ALL QA CATEGORY 1 EQUIPMENT FOR WHICH SEISMIC QUALIFICATION DOCUMENTATION MUST BE PROVIDED. EXCLUDED FROM THIS LISTING ARE: (A) PIPE MOUNTED IN-LINE EQUIPMENT - FLEXHOSES, ORIFICE PLATES, VENTURIS, RTD THERMOWELLS, PIPING THIMBLES, PIPING EXPANSION JOINTS, AND MANUAL VALVES (B) EQUIPMENT SUPPORTS - PIPING, TUBING AND INSTRUMENTATION SUPPORTS, PIPE RUPTURE RESTRAINTS (C) ELECTRICAL CABLE, CABLETRAY SYSTEMS, CONDUIT SYSTEMS, PENETRATIONS(ELECTRICAL),JUNCTION BOXES.

SAFETY SYSTEM AND FUNCTION WITH EQUIPMENT SUPPLIER ARE SHOWN IN ATTACHMENT A

THE DATA ITEMS CONTAINED IN THIS REPORT ARE DESCRIBED BELOW.

EQUIPMENT ID:

IN GENERAL, THE EQUIPMENT ID CONSISTS OF UNIT NO. (3 FOR MILLSTONE UNIT 3), SYSTEM CODE (THREE CHARACTER SYSTEM CODE FOLLOWED BY DASH (-) OR ASTERISK (*) AND EQUIPMENT CODE (ONE TO FOUR CHARACTER EQUIPMENT CODE FOLLOWED BY A NUMERIC ID).

STANDARD SYSTEM AND EQUIPMENT CODES ARE DEFINED WITHIN THE LISTING.

EQUIPMENT:

DESCRIPTION: DESCRIPTION OF EQUIPMENT OR ITS SERVICE.

VENDOR: THE COMPANY ACCEPTING THE OVERALL RESPONSIBILITY FOR FULFILLING THE REQUIREMENTS.

VENDOR MODEL: MODEL NUMBER DEFINED BY VENDOR.

MANUFACTURER: THE COMPANY RESPONSIBLE FOR SUB-COMPONENT FABRICATION.

MODEL: MODEL NUMBER DEFINED BY MANUFACTURER.

QUAL. REPORT: VENDORS DOCUMENT IDENTIFICATION NUMBER FOR SEISMIC QUALIFICATION.

SPEC: SPECIFICATION NUMBER (LAST 3 CHARACTERS ONLY)

LOCATION:

BLDG: BUILDING IN WHICH ITEM IS LOCATED (SEE ATTACHMENT B FOR BUILDING CODES).

ELEV: ELEVATION (00000 IF NOT YET ASSIGNED)

MTG: MOUNTING CONDITION

CF FOR CONCRETE FLOOR MOUNTING
CW FOR CONCRETE WALL MOUNTING
DM FOR DIRECT MOUNTING
HM FOR HANGER MOUNTING

8410190321 841016
PDR ADOCK 05000423
A PDR

RM FOR RACK MOUNTING
CM FOR CABINET MOUNTING
EM FOR EQUIPMENT MOUNTING

LOADS:

SEIS: INDICATE IF SEISMIC LOADS ARE APPLICABLE. YES (Y) OR NO (N).

OTHER DYN: INDICATE IF OTHER DYNAMIC LOADS ARE APPLICABLE. YES (Y) OR NO (N).

REQ'D INPUT (ZPA): APPLICABLE G LEVEL (WHERE 2 VALUES ARE GIVEN
THEY ARE HORIZONTAL AND VERTICAL RESPECTIVELY)

QUAL METH: (QUALIFICATION METHOD)

ANLYS: ANALYSIS 'S' FOR STATIC
'D' FOR DYNAMIC
'N' FOR NOT APPLICABLE

TEST FREQ. TEST FREQUENCY: 'SF' FOR SINGLE FREQUENCY
'MF' FOR MULTIPLE FREQUENCY
'NA' FOR NOT APPLICABLE

TEST DIR. TEST DIRECTION: 'SD' FOR SINGLE DIRECTION
'MD' FOR MULTIPLE DIRECTION
'NA' FOR NOT APPLICABLE

NAT FREQS: LOWEST NATURAL FREQUENCY (33+ = GREATER THAN 33
33- = LESS THAN 33)

F/B FRONT TO BACK
S/S SIDE TO SIDE
VERT VERTICAL

STATUS:

SQ: SEISMIC QUALIFICATION STATUS

- A. THE QUALIFICATION AND ASSOCIATED DOCUMENTATION ARE COMPLETE
- B. THE QUALIFICATION TESTING IS FINISHED BUT THE ASSOCIATED DOCUMENTATION IS NOT YET SUBMITTED OR IS STILL IN REVIEW.
- C. THE QUALIFICATION PLAN/PROCEDURE IS DOCUMENTED, BUT TESTING HAS NOT YET BEGUN.
- D. EQUIPMENT TO BE QUALIFIED.
- E. EQUIPMENT IS JUDGED NOT QUALIFIABLE AND WILL BE REPLACED⁹³ WITH QUALIFIED EQUIPMENT.
- F. THE QUALIFICATION IS NOT COMPLETE FOR ALL ITEMS IN THE ASSEMBLY.

INS: INSTALLATION STATUS

- ' ' (BLANK) EQUIPMENT HAS NOT BEEN INSTALLED
- 'Y' EQUIPMENT HAS BEEN INSTALLED
- 'I' EQUIPMENT HAS BEEN INSTALLED AND INSPECTED

RRS REF: STONE AND WEBSTER RRS CALCULATION #.

CODES: APPLICABLE CODES AND STANDARDS.

FOR EQUIPMENT WITHOUT AN ID (SUBCOMPONENT) SEE ATTACHMENT C FOR DATA ITEMS

ATTACHMENT A SAFETY SYSTEM & FUNCTION WITH EQUIPMENT SUPPLIER

SAFETY SYSTEM	FUNCTION	SUPPLIER (AE,NSS OTHER)	SAFETY SYSTEM	FUNCTION	SUPPLIER (AE,NSS OTHER)
BDG	2,6	AE	HVR		AE
BYS	1,2,3,4,5,6		HVS		AE
CCE	2,3,4,5,6	AE	HVU		AE
CCI	2,3,4,5,6	AE	HVV		AE
CCP	2,3,4,5,6	AE	HVY		AE
CDS			HVZ		AE
CES	1,2,3,4,5,6		IAS		AE
CHS	1,2,3,6	NSS	LAC		
CHS	2,6	AE	LAD		
CVS		AE	LAK		
DAS	2,5,6	AE	LAP		
DGS	2,5,6	AE	LAR		
DTH	2,5,6	AE	LAT		
EGA	1,2,3,4,5,6	AE/COLT	LAW		
EGD	1,2,3,4,5,6	AE	LMS	6	AE
EGF	1,2,3,4,5,6	AE	MSS	1,2,5,6	AE
EGO	1,2,3,4,5,6	COLT	PCS		AE
EGS	1,2,3,4,5,6	AE/COLT	QSS	2,4,6	AE
EHS			RCS	1,2,3,5,6	NSS
EJS			RHS	2,3,4,5,6	NSS
ENS			RMS	1,2,3,6	AE
FPN	2,6	AE	RPS	1,2,3,4,5,6	
FNA	2,5,6	AE	RSS	2,4	AE
FNL	1,2,5,6	BINGHAM	SCV	1,2,3,4,5,6	
		WILLMTTE	SFC	6	AE
FWS	1,2,5,6	AE	SGF		AE
GSN			SIH	1,2,3,5,6	NSS
GNS			SIL	1,2,3,5,6	NSS
HCS	1,6	AE	SSP	2,6	AE
HTS		AE	SSR	2,6	AE
HVC	1,2,3,4,5,6	AE	SVV	2,5,6	AE
HVG		AE	SNP	2,3,4,5,6	AE
HVH		AE	VBA	1,2,3,4,5,6	
HVK		AE	VRS		
HVP	1,2,3,4,5,6	AE	WTC		AE
HVQ		AE			

FUNCTION CODES: 1. EMERGENCY REACTOR SHUTDOWN
2. CONTAINMENT ISOLATION
3. CORE COOLING
4. CONTAINMENT HEAT REMOVAL
5. CORE RESIDUAL HEAT REMOVAL
6. PREVENT RELEASE OF RADIOACTIVE MATERIAL

ATTACHMENT B BUILDING CODES

DESCRIPTION	BUILDING

AUXILIARY BOILER ROOM	ABR
AUXILIARY BUILDING	AB
CIRCULATING AND SERVICE WATER PUMPHOUSE	CSP
CONDENSATE POLISHING ENCLOSURE	CPE
CONTAINMENT STRUCTURE	CS
CONTROL BLDG	CB
EMERGENCY GENERATOR ENCLOSURE	EGE
ENGINEERED SAFETY FEATURES BUILDING	ESB
FUEL BUILDING	FB
HYDROGEN RECOMBINER BUILDING	HRB
MAIN STEAM VALVE BUILDING	MSV
MCC AND ROD CONTROL AREA (IN AUX BLDG)	MRC
OFFICE BUILDING	OB
OUTSIDE YARD	OY
SERVICE BUILDING	SB
TURBINE BUILDING	TB
VARIOUS	VAR
WASTE DISPOSAL BUILDING	WDB
WAREHOUSE	WH

ATTACHMENT C EQUIPMENT WITHOUT AN ID (SUB-COMPONENT)

1.) NAMCO LIMIT SWITCH
 MODEL EA-170 ,QUAL REPORT QTR-107
 MODEL EA-180 ,QUAL REPORT QTR-105
 MODEL EA-740 ,QUAL REPORT QTR-111

DATA:

MTG: EM
 LOADS: SEISMIC- Y; OTHER DYN- N; REQUIRED INPUT (ZPA)- 3G
 QUAL METH: ANLYS- N; TEST FREQ- SF; TEST DIR- SD
 NAT FREQS: 33+
 STATUS: SQ- A; INS-
 RRS REF: NA
 CODES: IEEE-323,344,382

2.) LIMITORQUE MOTOR OPERATORS
 MODELS SMB,SB,SBD,SMB/HBC,QUAL REPORT B0058

DATA:

MTG: EM
 LOADS: SEISMIC- Y; OTHER DYN- N; REQUIRED INPUT- 3G
 QUAL METH: ANLYS- N; TEST FREQ- MF; TEST DIR- MD
 NAT FREQS: 33+
 STATUS: SQ- A; INS-
 RRS REF: NA

CODES: IEEE-323,344,362

[illegible]

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM B0G - BLOWDOWN - STEAM GENERATOR (NUCLEAR)

[illegible]

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM BYS - BATTERY - 125V - STATION

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS					
	DESCRIPTION		BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT				RRS	REF	DYN.	INPUT		FREQ	DIR				
	VEND MODEL	SPEC				CODES										
	MANUFACTURER	MANUFAC MODEL														

SPEC EQUIPMENT

BAT - BATTERY

3BYS*BAT-1	+301A-1 125VDC BATTERY RED GOULD LEAD CALCIUM	TL 889 259 NCX-1650	CB 00004 RM Y N	.25.15 S	MF MD	22+ 22+ 22+	A I
			NS(B)-017,REV 1B IEEE 323,344				
3BYS*BAT-2	+301B-1 125VDC BATTERY WHITE GOULD LEAD CALCIUM	TL 889 259 NCX-1650	CB 00004 RM Y N	.25.15 S	MF MD	22+ 22+ 22+	A I
			NS(B)-017,REV 1B IEEE 323,344				
3BYS*BAT-3	+301A-2 125VDC BATTERY BLUE GOULD LEAD CALCIUM	TL 889 259 NCX-750	CB 00004 RM Y N	.25.15 S	MF MD	22+ 22+ 22+	A I
			NS(B)-017,REV 1B IEEE 323,344				
3BYS*BAT-4	+301B-2 125VDC BATTERY YELLOW GOULD LEAD CALCIUM	TL 889 259 NCX-750	CB 00004 RM Y N	.25.15 S	MF MD	22+ 22+ 22+	A I
			NS(B)-017,REV 1B IEEE 323,344				

CHGR - CHARGER, BATTERY

3BYS*CHGR-1	BATTERY CHARGER C&D BATTERIES ARR130HK200F C&D	MYLE 46635-1 260 200AMP	CB 00004 CF Y N	.25.15 N	MF MD	NA NA NA	A I
			NS(B)-017,REV 1B IEEE 344				

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DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM BYS - BATTERY - 125V - STATION

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	F/B S/S VERT	SQ INS				

3BYS*PNL-1V	+301A-1A 125VDC DIST PNL OR SYSTEMS CONTROL CCB	46368-1 262	CB 00004	W Y N	.25.15 N	MF MD	11.5 15.5				I
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3BYS*PNL-2	+301B-1 125VDC DIST PNL BD PUR SYSTEMS CONTROLS CCB	46368-1 262	CB 00004	W Y N	.25.15 N	MF MD	11.5 15.5				I
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3BYS*PNL-2V	+301B-1A 125VDC DIST PNL PUR SYSTEMS CONTROL CCB	46368-1 262	CB 00004	W Y N	.25.15 N	MF MD	11.5 15.5				I
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3BYS*PNL-3	+301A-2 125VDC DIST PNL BD BL SYSTEMS CONTROL CCB	46368-1 262	CB 00004	W Y N	.25.15 N	MF MD	11.5 15.5				I
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3BYS*PNL-4	+301B-2 125VDC DIST PNL BD YL SYSTEMS CONTROL CCB	46368-1 262	CB 00004	W Y N	.25.15 N	MF MD	11.5 15.5				I
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PNL - PANEL

3BYS*PNLDG1F	125VDC FUSE PNL OR SYSTEM CONTROL CORP. -82N8-83N 637	EGE 00025	CH Y N	.32.15 S	MF MD	55.2 NA NA					I
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3BYS*PNLDG2F	125VDC FUSE PNL PU SYSTEM CONTROL CORP. -82N8-83N 637	EGE 00025	CH Y N	.32.15 S	MF MD	55.2 NA NA					I
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REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/21/84

ENGINEER: STONE & WEBSTER
NSSG SUPPLIER: WESTINGHOUSE

SYSTEM BYS - BATTERY - 125V - STATION

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3BYS*PNL1F	125VDC CONTROL FUSE PNL ORANGE SYSTEM CONTROL -82N&-83N 637 SYSTEM CONTROL 125V DC	CB 00047 CF Y N .40.15 S NS(B)-017,REV.1B IEEE 344	HF MD 55.2 NA NA A I				
3BYS*PNL13F	125VDC CONTROL FUSE PNL ORANGE SYSTEM CONTROL CORP -82N&-83N 637 SYSTEM CONTROL CORP 125V DC	CB 00047 CF Y N .40.15 S NS(B)-017,REV.1B IEEE 344	HF MD 55.2 NA NA A I				
3BYS*PNL14F	125VDC CONTROL FUSE PNL PURPLE SYSTEM CONTROL CORP -82N&-83N 637 SYSTEM CONTROL CORP 125V DC	CB 00047 CF Y N .40.15 S NS(B)-017,REV.1B IEEE 344	HF MD 55.2 NA NA A Y				
3BYS*PNL15F	125VDC CONTROL FUSE PNL-ORANGE SYSTEM CONTROL -82N&-83N 637 SYSTEM CONTROL 125V DC	CB 00047 CF Y N .40.15 S NS(B)-017,REV.1B IEEE 344	HF MD 55.2 NA NA A I				
3BYS*PNL16F	125VDC CONTROL FUSE PNL-PURPLE SYSTEM CONTROL -82N&-83N 637 SYSTEM CONTROL 125V DC	CB 00047 Y N .40.15 S NS(B)-017,REV.1B IEEE 344	HF MD 55.2 NA NA A I				
3BYS*PNL17F	125VDC CONTROL FUSE PNL-ORANGE SYSTEM CONTROL -82N&-83N 637 SYSTEM CONTROL CORP. 125V DC	CB 00047 CF Y N .40.15 S NS(B)-017,REV.1B IEEE 344	HF MD 55.2 NA NA A I				
3BYS*PNL18F	125VDC CONTROL FUSE PNL-PURPLE SYSTEM CONTROL CORP. -82N&-83N 637 SYSTEM CONTROL CORP. 125V DC	CB 00047 CF Y N .40.15 S NS(B)-017,REV.1B IEEE 344	HF MD 55.2 NA NA A I				

REPORT NO. NSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM BYS - BATTERY - 125V - STATION

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLOG ELEV MTG SEIS OTHER REQ'D RRS REF DYN. INPUT CODES	LOADS (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3BYS*PNL2F	125VDC CONTROL FUSE PNL ORANGE SYSTEM CONTROL CORP. -82N8-83N 637 SYSTEM CONTROL CORP. 125V DC	CB 00047 CF Y N .40.15 S NS(B)-017,REV.1B IEEE 344	MF MD	55.2 NA NA	A I		
3BYS*PNL20F	125VDC CONTROL FUSE PNL ORANGE SYSTEM CONTROL CORP. -82N8-83N 637 SYSTEM CONTROL CORP. 125V DC	CB 00004 CF Y N .40.15 S NS(B)-017,REV.1B IEEE 344	MF MD	55.2 NA NA	A I		
3BYS*PNL21F	125VDC CONTROL FUSE PNL PURPLE SYSTEM CONTROL CORP. -82N8-83N 637 SYSTEM CONTROL CORP. 125V DC	CB 00004 CF Y N .40.15 S NS(B)-017,REV.1B IEEE 344	MF MD	55.2 NA NA	A I		
3BYS*PNL22F	125VDC CONTROL FUSE PNL ORANGE SYSTEM CONTROL CORP. -82N8-83N 637 SYSTEM CONTROL CORP. 125V DC	MRC 00025 CH Y N .27.16 S NS(B)-007,REV.1B IEEE 344	MF MD	55.2 NA NA	A I		
3BYS*PNL23F	125VDC CONTROL FUSE PNL PURPLE SYSTEM CONTROL CORP. -82N8-83N 637 SYSTEM CONTROL CORP. 125V DC	MRC 00025 CH Y N .27.16 S NS(B)-007,REV.1B IEEE 344	MF MD	55.2 NA NA	A I		
3BYS*PNL3F	125VDC CONTROL FUSE PNL PURPLE SYSTEM CONTROL CORP. -82N8-83N 637 SYSTEM CONTROL CORP. 125V DC	CB 00047 CF Y N .40.15 S NS(B)-017,REV.1B IEEE 344	MF MD	55.2 NA NA	A I		
3BYS*PNL4F	125VDC CONTROL FUSE PNL PURPLE SYSTEM CONTROL CORP. -82N8-83N 637 SYSTEM CONTROL CORP. 125V DC	CB 00047 CF Y N .40.15 S NS(B)-017,REV.1B IEEE 344	MF MD	55.2 NA NA	A I		

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCE - COMPONENT COOLING - CHARGING PP. SEAL

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
M MANUFACTURER	MANUFAC MODEL					

SHEC EQUIPMENT

RV - VALVE,RELIEF

3CCEWV43A	CHARGING PP OIL COOLER RLF	AB	Y	N	3G	S	SF	SD	33+	A
	407487 REV5		NA							
LCT-11	LATER		ASME III,CL3							

3CCEwRV43B	CHARGING PP OIL COOLER RLF	AB	Y	N	3G	S	SF	SD	33+	A	Y
	407487 REV5		NA								
LCT-11	LATER		ASME III,CL3								

TK - TANK

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JCCCE*TK1      CHRG PUMP CLG SURGE TANK      AB 00043 CF   Y   N .32.18 S   SF SD 22+ 22+ 22+  A Y
P X ENG                12179-IA-177      NS(B)-007-REV.0B
473-4              022      ASME SECT.III,CL3

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P - PUMP

3CCENPIA	CHARGING PUMP COOLING PP	AB 00024 CF	Y	N	.27.16	S	N	N	159.6	A	Y
	GOULD PUMPS	ME-205	NS(B)-007 REV 08								
	SBDP	042	ASHE III,CL2								
	WESTINGHOUSE	5 H.P.									

3CCE*PIB	CHARGING PUMP COOLING PP	AB 00024	Y	N	.27.16	S	N	N	159.6	A	Y
	GOULD PUMPS	ME-205	NS(B)-007 REV 0B								
	SBDP	042	ASHE III,CL2								
	WESTINGHOUSE	5 H.P.									

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCE - COMPONENT COOLING - CHARGING PP,SEAL

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS		
	DESCRIPTION		BLDG ELEV	HTG	SEIS OTHER	REQ'D	ANLYS TEST	TEST	F/B	S/S		VERT	SQ
	VENDOR	QUAL REPORT			RRS REF	DYN. INPUT							
	VEND MODEL	SPEC			CODES	(ZPA)							
	MANUFACTURER	MANUFAC MODEL											

AOV - VALVE, AIR OPERATED

3CCE*AOV26A	CHG PMPs CLR OUT CROSSOVER FISHER FQP-22-1B 667NS-ES 185 NAMCO LIMIT SWITCH EA 180	AB 00028 DM Y N 3G	NA ASME III,CL3	S	NA	NA	33+	A	Y
3CCE*AOV26B	CHG PMPs CLR OUT CROSSOVER FISHER FQP-22-1B 667NS-ES 185 NAMCO LIMIT SWITCH EA 180	AB 00024 DM Y N 3G	NA ASME III,CL3	S	NA	NA	33+	A	Y
3CCE*AOV30A	CHG PMPs CLG PMP DIS CRSSOVER FISHER FQP-22-1B 667NS-ES 185 NAMCO LIMIT SWITCH EA 180	AB 00025 DM Y N 3G	NA ASME III,CL3	S	NA	NA	33+	A	Y
3CCE*AOV30B	CHG PMPs CLG PMP DIS CRSSOVER FISHER FQP-22-1B 667NS-ES 185 NAMCO LIMIT SWITCH EA 180	AB 00025 DM Y N 3G	NA ASME III,CL3	S	NA	NA	33+	A	Y

SOV - VALVE, SOLENOID

3CCE*SOV26A	CHG PMPs CLR OUT CROSSOVER FISHER AQR-67368 185 ASCO SOLENOID NPK 8320	AB 00028 EM Y N 3G	NA IEEE-323,344,382	N	SF	SD	35+	A
3CCE*SOV26B	CHG PMPs CLR OUT CROSSOVER FISHER AQR-67638 185 ASCO SOLENOID NPK 8320	AB 00028 EM Y N 3G	NA IEEE-323,344,382	N	SF	SD	* 35+	A

REPORT NO. HSSQT1

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCE - COMPONENT COOLING - CHARGING PP. SEAL

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT SQ INS	STATUS
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3CCE*SOV30A	CHG PHP CLG PHP DIS CROSSOVER FISHER	AQR-67638 185 NPK 8320	AB 00025 EM Y N 3G	NA IEEE-323,344,382	N SF SD *	35+	A
3CCE*SOV30B	CHG PHP CLG PHP DIS CROSSOVER FISHER	AQR-67638 185 NPK 8320	AB 00025 EM Y N 3G	NA IEEE-323,344,382	N SF SD *	35+	A
3CCE*SOV37A	CHG PHP CLG TEMP OUT FISHER	AQR-67638 185 NPK8320	AB 00025 EM Y N 3G	NA IEEE-323,344,382	N SF SD *	35+	A Y
3CCE*SOV37B	CHG PHP CLG TEMP OUT FISHER	AQR-67638 185 NPK 8320	AB 00025 EM Y N 3G	NA IEEE-323,344,382	N SF SD *	35+	A Y

TV - VALVE, TEMPERATURE

3CCE*TV37A	CHG PHP CLG TEMP OUT 667NS-YS	FQP-22-1B 185	AB 00024 DM Y N 3G	NA ASME III, CL3	S NA NA	33+	A
3CCE*TV37B	CHG PHP CLG TEMP OUT 667NS-YS	FQP-22-1B 185	AB 00024 DM Y N 3G	NA ASME III, CL3	S NA NA	33+	A

RV - VALVE, RELIEF

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCE - COMPONENT COOLING - CHARGING PP, SEAL

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

3CCEWV40A 3CCE-E1 DISCH AB 00024 DH Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-11 186 ASHE III,CL3

3CCE=RV40B	3CCE-E1 DISCH RLF		AB	00024	DH	Y	N	3G	S	SF	SD	33+	A Y
		407487-REV.5			NA								
LCT-11		166			ASHE I(I,CL3								

3CCE=RV43C	CHARGING PP OIL COOLER RLF	AB	Y	N	3G	S	SF	SD	33+	A	Y
	407487 REV5		NA								
LCT-11	186		ASME III,CL3								

TS - SWITCH, TEMPERATURE

3CCE+TS37A	CHG PMP CLG TEMP OUT	CB 00048 RM Y N .40.15 N HF MD NA NA NA C
	FOXBORO QOAAB33	NS(B)-017 REV 1B
	N-2AD+ALM-AR 392	IEEE 344,323
	SIGNAL BISTABLES H-2AP+ALM-AR	

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JCCE*TS37B      CHG PHP CLG TEMP OUT      CB 00048 RM   Y   N  .40.15 N   HF  HD   NA  N/   NA  C
                  FOXBORO                  Q0AAB33      NS(B)-017 REV 1B
                  N-2AD+ALM-AR              392          IEEE 344,323
                  SIGNAL BISTABLES         N-2AP+ALM-AR

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TY - RELAY, COMPUTING, SELECTING OR BOOSTER, TEMPERATURE

3CCE*TY37A	CHG PMP CLG TEMP OUT	CB 00048 RM Y N .40.15 N HF HD NA NA NA D
	FOXBORO QQAAB29	NS(B)-017 REV 1B
	N-2AI-P2V 392	IEEE 344.322
	R/E CONVERTER N-2AI-P2V	

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCE - COMPONENT COOLING - CHARGING PP. SEAL

[illegible]

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3CCEWY37B      CHG PMP CLG TEMP OUT          CB 00048 RH   Y    N .40.15 N    MF MD    NA    NA    NA    D
                 FOXBORO                    QOAAB29                NS(B)-017 REV 1B
                 N-2AI-P2V                  J92                   IEEE 344.323
                 R/E CONVERTER              N-2AI-P2V

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PS - SWITCH PRESSURE

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3CCENPS34A      CHG PMP5 CLG PMP5 DISCH      AB 00028 RM   Y   N   .32.18 N   SF SD  40+  40+  40+  A Y
                  AUTOMATIC SWITCH CO A/R-101003,R.O      NS(B)-007 REV 0B
                  SB21A/R/TE20A32BRX  626              IEEE 323-1974&IEEE 344-1975
                  ASCO PRESSURE SWITCH SB21A/R/TE20A32BRX

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3CCE#PS348      CHG PUMPS CLG PHS DISCH PRESS  AB 00020 RM  Y  N  .32.18 N  SF SD  40+  40+  40+  A Y
AUTOMATIC SWITCH CO AGR-101083,R.O          NS(B)-007 REV 08
SB21AHR/TE20A32BRX 626                     IEEE 323-1974&IEEE 344-1975
ASCO PRESSURE SWITCH SB21AHR/TE20A32BRX

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TE - TEMPERATURE ELEMENT, PRIMARY

[illegible][illegible]

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCI - COMPONENT COOLING- SAFETY INJECTION PP. SEAL

[illegible]

REPORT NO. H53QT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SNEC EQUIPMENT

TK - TANK

SCCP*TK1 REAC PLT COMP CLG SUR TK AB 00066 CF Y N .32.13 S SF SD 22+ 22+ 22+ A Y
P X ENG 12179-IA-176 NS(B)-007-REV.0B
473-1 022 ASME SECT.III,CL3

MOV - VALVE, MOTOR OPERATED

SCCP#HQV222	CNTHGT RECIRC CLG COIL C SPLY	CS -0024 DM Y N 3G S NA NA	33+	A Y
	HENRY PRATT D-0057-12	NA		
	4-1400 CL3 164	ASME III,CL2		
	LIMITORQUE OPERATOR			

3CCP#H0V223	CNTNMT RECIRC CLG COIL C SPLY	CS -0024 DM Y N 36 S NA NA	33+	A Y
	HENRY PRATT D-0057-12	NA		
	4-1400 CL3 144	ASHE III,CL2		
	LIMITORQUE OPERATOR SHS-00-2			

3CCP#H0V224	CNTHNT RECIRC CLG COIL C RTN	CS -0024 DM Y N 3G S NA NA	33+	A Y
	HENRY PRATT D-0057-12	NA		
	4-1400 CLJ 164	ASME III,CL2		
	LINHTORQUE OPERATOR SHB-00-2			

3CCP#H0V225	CNTNMT RECIRC CL6 COIL C RTRN	CS -0024 DM Y N 3G S NA NA	33+	A Y
	HENRY PRATT D-0057-12	NA		
	4-1400 CL3 164	ASME III,CL2		
	LIMITORQUE OPERATOR SHB-00-2			

REPORT NO. MSS071

PLANT NAME	HILLSTUNE UNIT 3
UTILITY	MUSCO

UTILITY	NUSSCO
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DOCKET NO. 59-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	DESCRIPTION VENDOR VENO MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV HTG RES REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	LOADS	QUAL METH	F/B	S/S	NAT FREQS	STATUS
JCCP#H0V226	CNTNMT RECIRC CLG COIL B SPLY 4-1400 CL3 LIMITORQUE OPERATOR	D-0057-12 164	CS -0024 DH NA ASME III,CL2	Y N 3G	S	NA NA	33+	A Y		
JCCP#H0V227	CNTNMT RECIRC CLG COIL B SPLY HENRY FRATT 4-1400 CL3 LIMITORQUE OPERATOR SHB-00-2	D-0057-12 164	CS -0024 DH NA ASME III,CL2	Y N 3G	S	NA NA	33+	A Y		
JCCP#H0V228	CNTNMT RECIRC CLG COIL B RTN HENRY FRATT 4-1400 CL3 LIMITORQUE OPERATOR SHB-00-2	D-0057-12 164	CS -0024 DH NA ASME III,CL2	Y N 3G	S	NA NA	33+	A Y		
JCCP#H0V229	CNTNMT RECIRC CLG COIL B RTN HENRY FRATT 4-1400 CL3 LIMITORQUE OPERATOR SHB-00-2	D-0057-12 164	CS -0024 DH NA ASME III,CL2	Y N 3G	S	NA NA	33+	A Y		
JCCP#H0V45A	MAIN (A-) SPLY HDR ISOL HENRY FRATT 10-1400 CL2 LIMITORQUE OPERATOR SHB-00-10	D-0057-11 164	AB 00004 DH NA ASME III,CL2	Y N 3G	S	NA NA	33+	A Y		
JCCP#H0V45B	MAIN (B-) SPLY HDR ISOL HENRY FRATT 10-1400 CL2 LIMITORQUE OPERATOR SHB-00-10	D-0057-11 164	AB 00004 DH NA ASME III,CL2	Y N 3G	S	NA NA	33+	A Y		
JCCP#H0V46A	MAIN (A-) RTN HDR ISOL HENRY FRATT 10-1400 CL2 LIMITORQUE OPERATOR SHB-00-10	D-0057-14 164	CS -0024 DH NA ASME III,CL2	Y N 3G	S	NA NA	33+	A Y		

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, ECC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

[illegible]

3CCP#NOV48B	MAIN (B-) RTN HDR ISOL HENRY PRATT D-0057-14 10-1400 CL2 164 LIMITORQUE OPERATOR SMB-00-10	CS -0024 DH Y N 3G S NA NA 33+ A Y
3CCP#NOV49A	MAIN (A-) RTN HDR ISOL HENRY PRATT D-0057-11 10-1400 CL2 164 LIMITORQUE OPERATOR SMB-00-10	AB 00004 DH Y N 3G S NA NA 33+ A Y
3CCP#NOV49B	MAIN (B-) RTN HDR ISOL HENRY PRATT D-0057-11 10-1400 CL2 164 LIMITORQUE OPERATOR SMB-00-10	AB 00004 DH Y N 3G S NA NA 33+ A Y

ACV - VALVE, AIR OPERATED

3CCP#AQV10A	TRN A NON-SFTY HDR SPLY ISOL FISHER 8K026-01 3220 185 NAMCO LIMIT SWITCH EA 180	AB 00004 DH Y N 3G S NA NA	33+	A Y
3CCP#AQV10B	TRN B NON-SFTY HDR SPLY ISOL FISHER 8K026-02 3220 185 NAMCO LIMIT SWITCH EA 180	AB 00004 DH Y N 3G S NA NA	33+	A Y
3CCP#AQV178A	RX CLNT PP THRM BARR FISHER FQP-22-6 667NS-DBQNS 185 NAMCO LIMIT SWITCH EA 180	CS 00026 DH Y N 3G S NA NA	33+	A Y
3CCP#AQV178B	RX CLNT PP THRM BARR FISHER FQP-22-6 667NS-DBQNS 185 NAMCO LIMIT SWITCH EA 180	CS 00026 DH Y N 3G S NA NA	33+	A Y

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/04

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS			STATUS		
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S		VERT	SQ
3CCP*AOV178C	RX CLNT PP THRM BARR FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 185 EA 180	CS	00026	DH	Y	N	3G	S	NA	NA	33+		A	Y
3CCP*AOV178D	RX CLNT PP THRM BARR FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 185 EA 180	CS	00026	DH	Y	N	3G	S	NA	NA	33+		A	Y
3CCP*AOV179A	CHPNT CLG XCONN FISHER 9210 NAMCO LIMIT SWITCH	8K026-07 185 EA 180	CS	00021	DH	Y	N	3G	S	NA	NA	33+		A	Y
3CCP*AOV179B	CHPNT CLG XCONN FISHER 9210 NAMCO LIMIT SWITCH	8K026-08 185 EA 180	CS	00021	DH	Y	N	3G	S	NA	NA	33+		A	Y
3CCP*AOV180A	CHPNT CLG XCONN FISHER 9210 NAMCO LIMIT SWITCH	8K026-09 185 EA 180	CS	00006	DH	Y	N	3G	S	NA	NA	33+		A	Y
3CCP*AOV180B	CHPNT CLG XCONN FISHER 9210 NAMCO LIMIT SWITCH	8K026-10 185 EA 180	CS	00006	DH	Y	N	3G	S	NA	NA	33+		A	Y
3CCP*AOV19A	TRN A NON-SFTY RTN HDR ISOL FISHER 3220 NAMCO LIMIT SWITCH	8K026-03 185 EA 180	AB	00004	DH	Y	N	3G	S	NA	NA	33+		A	Y

REPORT NO. MSSQ/I

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	LOADS ANLYS TEST TEST FREQ DIR	QUAL METH -- F/B S/S VERT SQ INS	NAT FREQS F/B S/S VERT SQ INS	STATUS
3CCP*AOV19B	TRN A NON-SFTY RTN HDR ISOL FISHER 3220 NANCO LIMIT SWITCH	8K026-03 185 EA 180	AB 00004 DH NA ASME III,CL3	Y N 3G	S NA NA	33+	A Y	
3CCP*AOV194A	TRN A NON-SFTY RTN HDR ISOL FISHER 9220 NANCO LIMIT SWITCH	8K026-11 185 EA 180	AB 00004 DH NA ASME III,CL3	Y N 3G	S NA NA	33	A Y	
3CCP*AOV194B	TRN B NON-SFTY RTN HDR ISOL FISHER 9220 NANCO LIMIT SWITCH	8K026-12 185 EA 180	AB 00004 DH NA ASME III,CL3	Y N 3G	S NA NA	33+	A Y	
3CCP*AOV197A	TRN A NON-SFTY HDR SPLY ISOL FISHER 9220 NANCO LIMIT SWITCH	8K-026-14 185 EA 180	AB 00004 DH NA ASME III,CL3	Y N 3G	S NA NA	33+	A Y	
3CCP*AOV197B	TRN B NON-SFTY HDR SPLY ISOL FISHER 9220 NANCO LIMIT SWITCH	8K-026-14 185 EA 180	AB 00004 DH NA ASME III,CL3	Y N 3G	S NA NA	33+	A Y	
3CCP*AOV31C	CHPNT CLG RAD MON 667NS-ES	FQP-22-1B 185	AB 00047 DH NA ASME III,CL3	Y N 3G	S NA NA	33+	A	
3CCP*AOV31D	CHPNT CLG RAD MON 667NS-ES	FQP-22-1B 185	AB 00047 DH NA ASME III,CL3	Y N 3G	S NA NA	33+	A	

FV - VALVE, FLOW

REPORT NO. NSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, ECC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME	HILLSTONE UNIT 3
UTILITY	MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQS	STATUS
	VENDOR	QUAL REPORT	BLDG ELEV	HTG	SEIS OTHER	REQ'D	ANLYS TEST
		SPEC	RRS REF	DYN	INPUT	F/B	S/S
	MANUFACTURER	MANUFAC MODEL	COOES		(ZPA)	FREQ DIR	
3CCP-FV66A	RESIDUAL HX OUT FISHER 9220 NAMCO LIMIT SWITCH	8N026-05 185 EA 170	ESS 00005	DH	Y	N	3G
			NA			S	NA
			ASHE III,CL3			NA	NA
3CCP-FV66B	RESIDUAL HX OUT FISHER 9220 NAMCO LIMIT SWITCH	8N026-06 185 EA 170	ESS 00005	DH	Y	N	3G
			NA			S	NA
			ASHE III,CL3			NA	NA
LV - VALVE,LEVEL							
3CCP-LV61	SFTY INJ PUMP TR 667NS-ES	FOP-22-1B 185	ESS 00036	DH	Y	N	3G
			NA			S	NA
			ASHE III,CL3			NA	NA
3CCP-LV91	CHG PMP CLG SHG TR MAKE-UP 667NS-ES	FOP-22-1B 185	AB 00049	DH	Y	N	3G
			NA			S	NA
			ASHE III,CL3			NA	NA
SDV - VALVE,SOLENOID							
3CCP-SOV16A	TRN A NON-SFTY HOR SPLY ISOL FISHER ASCO SOLENOID	AGR-6736B 185 NPH 8320	AB 00004	EH	Y	N	3G
			NA			N	SF
			ASHE III,CL3			SD	SD
3CCP-SOV10B	TRN B NON-SFTY HOR SPLY ISOL FISHER ASCO SOLENOID	AGR-6736B 185 NPH 8320	AB 00004	EH	Y	N	3G
			NA			N	SF
			IEEE-373,349,382			SD	SD

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 58-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLOG ELEV HTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3CCP*SOV176A	RX CLNT PP THRM BARR FISHER	AQR-67638 185	CS 00026 EH Y N 3G	NA IEEE-323,344,382	N SF SD *	35+	A Y
	ASCO SOLENOID	NPK 8320					
3CCP*SOV176B	RX CLNT PP THRM BARR FISHER	AQR-67638 185	CS 00026 EH Y N 3G	NA IEEE-323,344,382	N SF SD *	35+	A Y
	ASCO SOLENOID	NPK 8320					
3CCP*SOV176C	RX CLNT PP THRM BARR FISHER	AQR-67638 185	CS 00026 EH Y N 3G	NA IEEE-323,344,382	N SF SD *	35+	A Y
	ASCO SOLENOID	NPK 8320					
3CCP*SOV176D	RX CLNT PP THRM BARR FISHER	AQR-67638 185	CS 00026 EH Y N 3G	NA IEEE-323,344,382	N SF SD *	35+	A Y
	ASCO SOLENOID	NPK 8320					
3CCP*SOV179A	CHPNT CLG XCONN FISHER	AQR-67638 185	CS 00021 EH Y N 3G	NA IEEE-323,344,382	N SF SD *	35+	A Y
	ASCO SOLENOID	NPK 8320					
3CCP*SOV179B	CHPNT CLG XCONN FISHER	AQR-67638 185	CS 00021 EH Y N 3G	NA IEEE-323,344,382	N SF SD *	35+	A Y
	ASCO SOLENOID	NPK 8320					
3CCP*SOV180A	CHPNT CLG XCONN FISHER	AQR-67638 185	CS 00006 EH Y N 3G	NA IEEE-323,344,382	N SF SD *	35+	A Y
	ASCO SOLENOID	NPK 8320					

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	MTG	SEIS OTHER REQ'D	DYN. INPUT	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT		RRS REF				
VEND MODEL	SPEC		CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL						

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3CCP*SOV180B	CHPNT CLG XCONN FISHER	AQR-67638 185	CS	00006	EM	Y	N	3G	N	SF	SD	*	35+	A	Y
	ASCO SOLENOID	NPK 8320			NA			IEEE-323,344,382							
3CCP*SOV19A	TRN B NON-SFTY RTN HDR ISOL FISHER	AQR-67368 185	AB	00004	EM	Y	N	3G	N	SF	SD		35+	A	
	ASCO SOLENOID	NPK 8320			NA			IEEE-323,344,382							
3CCP*SOV19B	TRN B NON-SFTY RTN HDR ISOL FISHER	AQR-67368 185	AB	00004	EH	Y	N	3G	N	SF	SD		35+	A	
	ASCO SOLENOID	NPK 8320			NA			IEEE-323,344,382							
3CCP*SOV194A	TRN A NON-SFTY RTN HDR ISOL FISHER	AQR-67638 185	AB	00004	EM	Y	N	3G	N	SF	SD	*	35+	A	
	ASCO SOLENOID	NPK 8320			NA			IEEE-323,344,382							
3CCP*SOV194B	TRN B NON-SFTY RTN HDR ISOL FISHER	AQR-67638 185	AB	00004	EM	Y	N	3G	N	SF	SD	*	35+	A	
	ASCO SOLENOID	NPK 8320			NA			IEEE-323,344,382							
3CCP*SOV197A	TRN A NON-SFTY HDR SPLY ISOL FISHER	AQR-67638 185	AB	00004	EM	Y	N	3G	N	SF	SD	*	35+	A	
	ASCO SOLENOID	NPK 8320			NA			IEEE-323,344,382							
3CCP*SOV197B	TRN E NON-SFTY HDR SPLY ISOL FISHER	AQR-67638 185	AB	00004	EM	Y	N	3G	N	SF	SD	*	35+	A	
	ASCO SOLENOID	NPK 8320			NA			IEEE-323,344,382							

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS		STATUS			
	DESCRIPTION		BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT		RRS REF		DYN.	INPUT								
	VEND MODEL	SPEC		CODES			(ZPA)								
	MANUFACTURER	MANUFAC MODEL													

3CCP*SOV66A	RESIDUAL HX OUT		ESB 00006	EM	Y	N	3G	N	SF	SD		35+		A	Y
	FISHER	AQR-67368		NA											
		185		IEEE-323,344,382											
	ASCO SOLENOID	NPK 8320													

3CCP*SOV66B	RESIDUAL HX OUT		ESB 00006	EM	Y	N	3G	N	SF	SD		35+		A	Y
	FISHER	AQR-67368		NA											
		185		IEEE-323,344,382											
	ASCO SOLENOID	NPK 8320													

TV - VALVE, TEMPERATURE

3CCP*TV172	LTDN HX OUT		AB 00004	DM	Y	N	3G	S	NA	NA		33+		A	
	657NS-ED	FQP-22-1B		NA											
		185		ASME III,CL3											

3CCP*TV32A	COMPNT CLG HX OUT		AB 00024	DM	Y	N	3G	S	NA	NA		33+		A	
	7610X7650	9H605-01		NA											
		185		ASME III,CL3											

3CCP*TV32B	COMPNT CLG HX OUT		AB 00024	DM	Y	N	3G	S	NA	NA		33+		A	
	7610X7650	9H605-02		NA											
		185		ASME III,CL3											

3CCP*TV32C	COMPNT CLG HX OUT		AB 00024	DM	Y	N	3G	S	NA	NA		33+		A	
	7610X7650	9H605-03		NA											
		185		ASME III,CL3											

RV - VALVE, RELIEF

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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3CCP*RV239A	RHR PUMP SEAL CLR	ESB 00031 DM	Y	N	3G	S	SF	SD	33+	A Y
	407467-REV.5	NA								
	LCT-11	186	ASME III,CL3							

3CCP*RV239B RHR PUMP SEAL CLR ESB 00018 DM Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-11 186 ASME III,CL3

3CCP*RV258A RCP UP BRG CS 00037 DM Y N 3G S SF SD 33+ A Y
407467-REV.5 NA
LCT-11 186 ASHE III,CL3

3CCP*RV258B RCP UP ERG CS 00037 DM Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-11 186 ASME III,CL3

3CCP*RV258C RCP UP BRG CS 00037 DM Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-11 186 ACME III,CL3

3CCP*RV258D RCP UP BRG CS 00037 DH Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-11 186 ASHE III,CL3

3CCP*RV39 EXCESS LTDN HTX CS 00016 DM Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-11 186 ASME III,CL3

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

[illegible]

3CCP*RV54A RX CLNT PMP THRM BARR CS 00021 DM Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-20T 186 ASME III,CL3

3CCP*RV54B RX CLNT PMP THRM BARR CS 00021 DM Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-20T 186 ASME III,CL3

3CCP*RV54C RX CLNT PHP THRM BARR CS 00021 DH Y N 3G S SF SD 33+ A Y
407467-REV.5 NA
LCT-20T 186 ASME III,CL3

3CCP*RV540 RX CLNT PHP THRM BARR CS 00021 DM Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-20T 186 ASME III,CL3

3CCP#RV59A	FUEL POOL CLR		FB	00049	DH	Y	N	3G	S	SF	SD	33+	A Y
		407487-REV.5			NA								
	LCT-11	186			ASME III,CL3								

3CCP*RV59B FUEL POOL CLR FB 00049 DM Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-11 186 ASHE III,CL3

3CCP*RV64A	RESIDUAL HX	ESB 00005 DM	Y	N	3G	S	SF	SD	33+	A Y
		407467-REV.5	NA							
	LCT-11	186	ASME III,CL3							

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS		STATUS					
	DESCRIPTION		BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	
	VENDOR	QUAL REPORT	RRS	REF	DYN.	INPUT											
	VEND MODEL	SPEC	CODES			(ZPA)											
	MANUFACTURER	MANUFAC MODEL															

3CCP*RV64B	RESIDUAL HX		ESB	00005	DM	Y	N	3G	S	SF	SD		33+		A	Y	
	LCT-11	407487-REV.5 186			NA												
					ASME III,CL3												

3CCP*RV62	LETDOWN HTX		AB	00035	DM	Y	N	3G	S	SF	SD		33+		A		
	LCT-11	407487-REV.5 186			NA												
					ASME III,CL3												

3CCP*RV85	SEAL WTR HTX		AB	00024	DM	Y	N	3G	S	SF	SD		33+		A	Y	
	LCT-11	407487-REV.5 186			NA												
					ASME III,CL3												

TRS - SWITCH,TRANSFER

3CCP*TRS-P1C	MANUAL XFR SW FOR 3CCP*P1C		MRC	00046	CF	Y	N	.27.16	N	HF	MD	NA	NA	NA	A	Y	
	GOULD BROWN BOVERI	33-49988-SS,ADD.2 243			NS(B)-007,REV.0B												
	BROWN BOVERI	HPL-C			IEEE 344												

FI - INDICATOR, FLOW

3CCP*FI67A2	RESIDUAL HX OUT		CB	00048	CH	Y		.40.15	N	HF	MD	NA	NA	NA	A		
	INT'L INST 1151VB	15880,REV 2 246			NS(B)-017REV1B												
					IEEE 323,IEEE 344												

3CCP*FI67B2	RESIDUAL HX OUT		CB	00048	CH	Y		.40.15	N	HF	MD	NA	NA	NA	A		
	INT'L INST 1151VB	15880,REV 2 246			NS(B)-017REV1B												
					IEEE 323												

P - PUMP

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

1. 本行在 2019 年 12 月 31 日及 2018 年 12 月 31 日，均无因向客户提供信用证而形成的或有负债。

3CCP#PIA	REAC.PLNT.CHPNT CLG PP BINGHAM-WILLMTE ME 798 14X14X18 HSA 336 G.E. HORIZONTAL 8210S	AB 00024 CF Y N .27.16 S NA NA	22+	A Y
		NS(B)-007 REV 0B ASME III,CL3		
3CCP#PIB	REAC.PLNT.CHPNT CLG PP BINGHAM-WILLMTE ME 798 14X14X18 HSA 336 G.E. HORIZONTAL 8210S	AB 00024 CF Y N .27.16 S NA NA	22+	A Y
		NS(B)-007 REV 0B ASME III,CL3		
3CCP#PIC	REAC.PLANT.CHPNT CLG PP BINGHAM-WILLMTE ME 798 14X14X18 HSA 336 G.E. HORIZONTAL 8210S	AB 00024 CF Y N .27.16 S NA NA	22+	A Y
		NS(B)-007 REV 0B ASME III,CL3		

FS - SWITCH, FLOW

3CCP*FS178A1	RX CLNT PP THRM BARR FOXBORO N-2APTALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB 00048	RH	Y	N	.40.15	N	MF	MD	NA	NA	NA	D
3CCP*FS178B1	RX CLNT PP THRM BARR FOXBORO N-2APTALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB 00048	RH	Y	N	.40.15	N	MF	MD	NA	NA	NA	D
3CCP*FS178C1	RX CLNT PP THRM BARR FOXBORO N-2APTALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB 00048	RH	Y	N	.40.15	N	MF	MD	NA	NA	NA	D
3CCP*FS178D1	RX CLNT PP THRM BARR FOXBORO N-2APTALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB 00048	RH	Y	N	.40.15	N	MF	MD	NA	NA	NA	C

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	DYN. INPUT	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR			
VEND MODEL	SPEC	CODES	(ZPA)				
MANUFACTURER	MANUFAC MODEL						

FY - RELAY, COMPUTING, SELECTING OR BOOSTER

3CCP*FY178A	RX CLNT PP THRM BARR FOXBORO N-2AI-I2V I/E CONVERTER	Q0AAB35 392 N-2AI-I2V	CB 00048	RM Y N	.40.15 N	MF	MD	NA	NA	NA	C
				NS(B)-017 REV 1B IEEE 344,323							
3CCP*FY178B	RX CLNT PP THRM BARR FOXBORO N-2AI-I2V I/E CONVERTER	Q0AAB35 392 N-2AI-I2V	CB 00048	RM Y N	.40.15 N	MF	MD	NA	NA	NA	C
				NS(B)-017 REV 1B IEEE 344,323							
3CCP*FY178C	RX CLNT PP THRM BARR FOXBORO N-2AI-I2V I/E CONVERTER	Q0AAB35 392 N-2AI-I2V	CB 00048	RM Y N	.40.15 N	MF	MD	NA	NA	NA	C
				NS(B)-017 REV 1B IEEE 344,323							
3CCP*FY178D	RX CLNT PP THRM BARR FOXBORO N-2AI-I2V I/E CONVERTER	Q0AAB35 392 N-2AI-I2V	CB 00048	RM Y N	.40.15 N	MF	MD	NA	NA	NA	C
				NS(B)-017 REV 1B IEEE 344,323							
3CCP*FY67A1	RESIDUAL HX OUT FOXBORO N-2AI-I2V I/E CONVERTER	Q0AAB35 392 N-2AI-I2V	CB 00048	RM Y N	.40.15 N	MF	MD	NA	NA	NA	C
				NS(B)-017 REV 1B IEEE 344,323							
3CCP*FY67A2	RESIDUAL HX OUT FOXBORO N-2AO-V2I E/I CONVERTER	Q0AAB50 392 N-2AO+V2I	CB 00048	RM Y N	.40.15 N	MF	MD	NA	NA	NA	C
				NS(B)-017 REV 1B IEEE 344,323							
3CCP*FY67B1	RESIDUAL HX OUT FOXBORO N-2AI-I2V I/E CONVERTER	Q0AAB35 392 N-2AI-I2V	CB 00048	RM Y N	.40.15 N	MF	MD	NA	NA	NA	C
				NS(B)-017 REV 1B IEEE 344,323							

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	DESCRIPTION	BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
VENDOR	QUAL REPORT				RRS	REF	DYN.	INPUT							
VEND MODEL	SPEC														
MANUFACTURER	MANUFAC MODEL				CODES		(ZPA)								

3CCP*FY67B2	RESIDUAL HX OUT	CB 00048 RH Y N .40.15 N MF MD NA NA NA C
	FOXBORO	QOAB50 NS(B)-017 REV 1B
	N-2AO-V2I	392 IEEE 344,323
	E/I CONVERTER	N-2AO+V2I

E - EXCHANGER, HEAT

3CCP*EIA	REAC PLT COMP CLG HT EXCH	AB 00024 CF Y N .27.16 S NA NA 16+ A Y
	YUBA HT TRANS N-005-1	NS(B)-007 RFV 0B
	TEMA CGN 49-504 446	ASME III,CL3

3CCP*E1B	REAC PLT COMP CLG HT EXCH	AB 00024 CF Y N .27.16 S NA NA	16+	A Y
	N-005-1	NS.B1-007 REV 0B		
	TEMA CGN 49-504 446	ASME III,CL3		

3CCP*E1C	REAC PLT COMP CLG HT EXCH	AB 00024 CF Y N .27.16 S NA NA	16+	A Y
	N-005-1	NS(B)-007 REV 0B		
	TEMA CGN 49-504	446 ASME III,CL3		

LS - SWITCH, LEVEL

3CCP*LS196A PRESS TRN A CCP PMP B SUCT AB 00066 RM Y N .10.12 N SF SD 40+ 40+ 40+ A Y
AUTOMATIC SWITCH CO AQR-101083,R.O NS(B)-007,REV 0B
5B21AKR/TE2032BRX 626 IEEE 344-1975
ASCO PRESSURE SWITCH SB21AKR/TE20A32BRX

3CCP*LS196B PRESS TRN A CCP PMP B SUCT AB 00066 RM Y N .41.18 N SF SD 40+ 40+ 40+ A Y
AUTOMATIC SWITCH CO AQR-101003,R.O NS(B)-007,REV 0B
SB21AKR/TE2032BRX 626 IEEE 344-1975
ASCO PRESSURE SWITCH SB21AKR/TE20A32BRX

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CCP - COMPONENT COOLING-PRI OR REACTOR

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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[illegible]

3CCP	*LS25B	RX PLANT CMPNT CLG SURGE TK	AB	00066	RH	Y	N	.41.18	N	SF	SD	40+	40+	40+	A	Y	
		AUTOMATIC SWITCH CO	AQR-101083,R.O								NS(B)-007,REV 0B						
		SB21AHR/TE2032BRX	626								IEEE 344-1975						
		ASCO PRESSURE SWITCH SB21AHR/TE20A32BRX															

FT - TRANSMITTER, FLOW

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3CCP*FT178A      RX CLNT PHP THRM BARR      CS  00003 RH   Y   N   .33.20 N   MF   MD   38   38   60   A Y
                  ROSEMOUNT                  D8300040      NS(B)-017 REV 1B
                  1153DD                      662           IEEE-323,344
                  DIFF PRSSR TRANSMITR 1153DD5PC

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3CCP*FT178B  RX CLNT PMP THRM BARR      CS 00004 RH   Y   N   .33.20 N   MF MD   38   38   60   A Y
                ROSEMOUNT              D8300040      NS(B)-017 REV 1B
                115300                  662          IEEE-323,344
                DIFF PRSSR TRANSMITR 115300D5PC

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3CCP*FT178C    RX CLNT PMP THRM BARR    CS 00003 RM   Y   N   .33.20 N   MF   MD   38   38   60   A Y
                ROSMOUNT                D8300040    NS(B)-017 REV 1B
                1153DD                   662        IEEE-323,344
                DIFF PRSSR TRANSMITR 1153DD5PC

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3CCP#FT67A	RESIDUAL HX OUT	ESF 00005 RM	Y	N	.20.12	N	MF	MD	50	47	50	A	Y
	ROSENQUNT	108025	NS(B)-010 REV B										
	11530B	662	IEEE-323,344										
	DIFF PRSSR TRANSMITR	11530B5PC											

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3CCP*FT67B      RESIDUAL HX OUT      ESF 00005 RH   Y   N   .20.12 N   MF   MD   50   47   50   A   Y
ROSEMOUNT      108025      NS(B)-010 REV B
1153DB         662      IEEE-323,344
DIFF PRESSR TRANSMITR 1153DB5PC

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REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CDS - CHILLED WATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	VENDOR	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VEND MODEL	SPEC	RRS REF	DYN.	INPUT												
	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)													

SHEC EQUIPMENT

CTV - VALVE, CONTAINMENT, TRIP

3CDS*CTV38A	CHLD WTR CNTMNT TRIP FISHER 9220 NAMCO LIMIT SWITCH	8K141-01 105 EA 180	AB 00004	DM	Y	N	3G	S	NA	NA	33+	A	Y
3CDS*CTV38B	CHLD WTR CNTMNT TRIP FISHER 9220 NAMCO LIMIT SWITCH	8K141-02 105 EA 180	AB 00004	DM	Y	N	3G	S	NA	NA	33+	A	Y
3CDS*CTV39A	CHLD WTR CNTMNT TRIP FISHER 9220 NAMCO LIMIT SWITCH	8K141-03 105 EA 180	AB 00004	DM	Y	N	3G	S	NA	NA	33+	A	Y
3CDS*CTV39B	CHLD WTR CNTMNT TRIP FISHER 9220 NAMCO LIMIT SWITCH	8K141-04 105 EA 180	AB 00004	DM	Y	N	3G	S	NA	NA	33+	A	Y
3CDS*CTV40A	CHLD WTR CNTMNT TRIP FISHER 9220 NAMCO LIMIT SWITCH	8K141-05 105 EA 180	CS 6	DM	Y	N	3G	S	NA	NA	33+	A	Y
3CDS*CTV40B	CHLD WTR CNTMNT TRIP FISHER 9220 NAMCO LIMIT SWITCH	8K141-06 105 EA 180	CS 00006	DM	Y	N	3G	S	NA	NA	33+	A	Y

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, ESC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CDS - CHILLED WATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RPS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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[illegible][illegible]

SOV - VALVE, SOLENOID

[illegible][illegible][illegible][illegible][illegible]

REPORT NO. MSSQTL

PLANT NAME	MILLSTONE UNIT 3
UTILITY	MUSCO

UTILITY
NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CDS - CHILLED WATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	QUAL REPORT VEND MODEL MANUFACTURER	BLDG ELEV HTG RRS REF CODES	SEIS OTHER REQ'D DYN. (ZPA)	ANLYS TEST FREQ DIR	F/B	S/S	NAT FREQS	STATUS
3CDS-SOV40B	CHILD WTR CNTNMT FISHER	CS	AQR-67638 105 NPK 8320	00005 EM NA IEEE-323,344,302	Y N 3G	N SF SD	*	35+		A Y
3CDS-SOV91A	CHILD WTR CNTNMT FISHER	CS	AQR-67638 105 NPK 8320	00010 EM NA IEEE-323,344,302	Y N 3G	N SF SD	*	35+		A Y
3CDS-SOV91B	CHILD WTR CNTNMT FISHER	CS	AQR-67638 105 NPK 8320	00010 EM NA IEEE-323,344,302	Y N 3G	N SF SD	*	35+		A Y

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CES - COMMON ELECTRICAL-SYSTEM(CONTROL BDS,ETC)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SWEC EQUIPMENT

AAA - RESERVED

3CES*RAKAUXA AUX RELAY RACK (AR6) CB 00047 CF Y N .40.15 SD NA NA 25+ 25+ 25+ D Y
AAI-107 NS(B)-017,REV 1B
IEEE 344

3CES=RAKAUXB AUX RELAY RACK (AR7) CB 00047 CF Y N .40.15 D Y
NS(B)-017,REV 1B
IEEE 394

PNL - PANEL

3CESwPNLFTSP	FIRE TRANSFER SW PNL	CB	CF Y N .25.15	D Y
			NS(B)-017,REV 1B	
			IEEE 344	

3CES*PNLTSA TRANSFER SW PNL TRAIN A CB 00004 CF Y N .40.15 S NA NA 25+ 25+ 25+ A Y
SYSTEMS CONTROL 16825-82N,REV 0 NS(B)-017 REV 1B
IEEE 344

3CES*PNLTSB TRANSFER SW PNL TRAIN B CB 00004 CF Y N .40.15 S NA NA 25+ 25+ 25+ A Y
SYSTEMS CONTROL 16025-02N,REV 0 NS(B)-017 REV 1B
IEEE 344

MCB - MAIN CONTROL BOARD

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CES - COMMON ELECTRICAL-SYSTEM(CONTROL BDS,ETC)

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS			STATUS	
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST	TEST	F/B	S/S	VERT	SQ	INS
3CES*MCB-MB1	RELIANCE ELECTRIC 99AX400493	AAI-144 245	CB	00047	CF	Y N .40.15	SD	NA	NA	25+	25+	25+	A Y
						NS(B)-017,REV 1B IEEE 344							
3CES*MCB-MB2	RELIANCE ELECTRIC 99AX400493	AAI-144 245	CB	00047	CF	Y N .40.15	SD	NA	NA	25+	25+	25+	A Y
						NS(B)-017,REV 1B IEEE 344							
3CES*MCB-MB3	RELIANCE ELECTRIC 99AX400493	AAI-142 245	CB	00047	CF	Y N .40.15	SD	NA	NA		27.12		A Y
						NS(B)-017,REV 1B IEEE 344							
3CES*MCB-MB4	RELIANCE ELECTRIC 99AX400493	AAI-143 245	CB	00047	CF	Y N .40.15	SD	NA	NA	25+	25+	25+	A Y
						NS(B)-017,REV 1B IEEE 344							
3CES*MCB-MB5	RELIANCE ELECTRIC 99AX400493	AAI-141 245	CB	00047	CF	Y N .40.15	SD	NA	NA		26.7		A Y
						NS(B)-017,REV 1B IEEE-344							
3CES*MCB-MB6	RELIANCE ELECTRIC 99AX400493	AAI-141 245	CB	00047	CF	Y N .40.15	SD	NA	NA		26.7		A
						NS(B)-017 REV 1B IEEE-344							
3CES*MCB-MB7	RELIANCE ELECTRIC 99AX400493	AAI-141 245	CB	00047	CF	Y N .40.15	SD	NA	NA		26.7		A Y
						NS(B)-017 REV 1B IEEE-344							

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
WSSS SUPPLIER: WESTINGHOUSE

SYSTEM CES - COMMON ELECTRICAL-SYSTEM(CONTROL BDS,ETC)

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS	
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES	ANLYS TEST TEST FREQ DIR	F/B	S/S	VERT	SQ	INS		

3CES*HCB-MB9	RELIANCE ELECTRIC 99AX400493	AAI-118,REV B 245	CB 00047	CF Y N .40.15 SD	NA NA	25+	25+	25+	A	I
				NS(B)-017 REV 1B IEEE-344						

TB - TEMPRATURE BISTABLES

3CES*TB-MB10	MAIN CONTROL TERM CAB'S RELIANCE ELECTRIC 99AX400493	AAI-107 245	CB	CF Y N .40.15 SD	NA NA	25+	25+	25+	A	I
				NS(B)-017 REV 1B IEEE 344						

3CES*TB-MB1P	MAIN CONTROL TERM CAB'S RELIANCE ELECTRIC 99AX400493	AAI-107 245	CB	CF Y N .40.15 SD	NA NA	25+	25+	25+	A	I
				NS(B)-017 REV 1B IEEE 344						

3CES*TB-MB20	MAIN CONTROL TERM CAB'S RELIANCE ELECTRIC 99AX400493	AAI-107 245	CB 00047	CF Y N .40.15 SD	NA NA	25+	25+	25+	A	I
				NS(B)-017 REV 1B IEEE 344						

3CES*TB-MB2P	MAIN CONTROL TERM CAB'S RELIANCE ELECTRIC 99AX400493	AAI-107 245	CB 00047	CF Y N .40.15 SD	NA NA	25+	25+	25+	A	I
				NS(B)-017 REV 1B IEEE 344						

3CES*TB-MB30	MAIN CONTROL TERM CAB'S RELIANCE CABINETS 99AX400493	AAI-107 245	CB 00047	CF Y N .40.15 SD	NA NA	25+	25+	25+	A	I
				NS(B)-017 REV 1B IEEE 344						

3CES*TB-MB3P	MAIN CONTROL TERM CAB'S RELIANCE ELECTRIC 99AX400493	AAI-107 245	CB 00047	CF Y N .40.15 SD	NA NA	25+	25+	25+	A	I
				NS(B)-017 REV 1B IEEE 344						

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET 17. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CES - COMMON ELECTRICAL-SYSTEM(CONTROL BDS,ETC)

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC			RRS	REF	DYN.	INPUT		FREQ	DIR					
	VEND MODEL	MANUFACTURER			CODES			(ZPA)								

3CES*TB-MB40	MAIN CONTROL TERM CAB'S		CB		CF	Y	N	.40.15	SD	NA	NA	25+	25+	25+	A	I
	RELIANCE ELECTRIC	AAI-107			NS(B)-017	REV	1B									
	99AX400493	245			IEEE	344										

3CES*TB-MB4P	MAIN CONTROL TERM CAB'S		CB		CF	Y	N	.40.15	SD	NA	NA	25+	25+	25+	A	I
	RELIANCE ELECTRIC	AAI-107			NS(B)-017	REV	1B									
	99AX400493	245			IEEE	344										

3CES*TB-MB50	MAIN CONTROL TERM CAB'S		CB	00047	CF	Y	N	.40.15	SD	NA	NA	25+	25+	25+	A	I
	RELIANCE ELECTRIC	AAI-107			NS(B)-017	REV	1B									
	99AX400493	245			IEEE	344										

3CES*TB-MB5P	MAIN CONTROL TERM CAB'S		CB	00047	CF	Y	N	.40.15	SD	NA	NA	25+	25+	25+	A	I
	RELIANCE ELECTRIC	AAI-107			NS(B)-017	REV	1B									
	99AX400493	245			IEEE	344										

3CES*TB-MB80	MAIN CONTROL TERM CAB'S		CB		CF	Y	N	.40.15	SD	NA	NA	25+	25+	25+	A	I
	RELIANCE ELECTRIC	AAI-107			NS(B)-017	REV	1B									
	99AX400493	245			IEEE	344										

TB - TEMPRATURE BISTABLES

3CES*TB-MB8P	MAIN CONTROL TERM CAB'S		CB		CF	Y	N	.40.15	SD	NA	NA	25+	25+	25+	A	I
	RELIANCE ELECTRIC	AAI-107			NS(B)-017	REV	1B									
	99AX400493	267			IEEE	344										

IPNL - PANEL, INSTRUMENT

DOCKET NO. 50-423

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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CES - COMMON ELECTRICAL-SYSTEM(CONTROL BDS,ETC)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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3CES=IPNLI01          CB 00047 RM   Y    N .40.15 N   HF MD NA NA NA D Y
                        QOAAB35      NS(B)-017 REV 1B
                        392           IEEE 344,322

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392 CB 00047 RM Y N .40.15
NS(B)-017 REV 1B
IEEE 344,322

3CES*IPNLI09 CB 00047 RM Y N .40.15 D Y
NS(B)-017 REV 1B
IEEE 344,322
392

3CES*IPNLI19 CB 00047 RM Y N .40.15 D Y
NS(B)-017 REV 1B
IEEE 344.322
392

3CES-IPNLI02 CB 00047 RM Y N .40.15
IEEE 344,322 NS(B)-017 REV 1B
392 IEEE 344,322

3CES-IPNLI03 CB 00047 RM Y N .40.15 D
NS(B)-017 REV 1B
IEEE 344,322
392

3CES-IPNLI04 CB 00047 RH Y N .40.15 D
NS(B)-017 REV 1B
IEEE 344,322
392

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CES - COMMON ELECTRICAL-SYSTEM(CONTROL BDS,ETC)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	HTG	SEIS OTHER REQ'D	DYN.	INPUT	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT		RRS REF					
VEND MODEL	SPEC		CODES	(ZPA)				
MANUFACTURER	MANUFAC MODEL							

● 本報為便利讀者起見，特在報內附設「讀者信箱」，歡迎讀者來信。凡有關本報業務之建議、批評、投訴、查詢等，請逕寄本報編輯部，以便處理。如蒙賜教，無任歡迎。地址：香港中環皇后大道中111號11樓1101室。電話：26288888。傳真：26288889。E-mail: reader@hkstar.com.hk

3CES-IPNL105 CB 00047 RM Y N .40.15
NS(B)-017 REV 1B
IEEE 344,322

3CES-IPNLT06 CB 00047 RM Y N .40.15 D
NS(B)-017 REV 1B
IEEE 344,322
392

3CES-IPNLI07 CB 00047 RH Y N .40.15 D
NS(B)-017 REV 1B
IEEE 344.323
392

3CES-IPMLIII CB 00047 RH Y N .40.15
NS(B)-017 REV 1B
IEEE 344.323

3CES-IPNLI12 CB 00047 RM Y N .40.15
NS(B)-017 REV 1B
IEEE 304.323

3CES-IPMLI13 CB 00047 RM Y N .40.15
NS(B)-017 REV 1B
IEEE 344.323

3CES-IPNLI14 CB 00047 RM Y N .40.15
NS(B)-017 REV 1B
IEEE 344,323

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CES - COMMON ELECTRICAL-SYSTEM(CONTROL BDS,ETC)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	QUAL REPORT	RRS REF	DYN.	INPUT										
	VEND MODEL	SPEC	CODES		(ZPA)										
	MANUFACTURER	MANUFAC MODEL													

3CES-IPNLI15		CB	00047	RM	Y	N	.40.15								D
	392						NS(B)-017 REV 1B								
							IEEE 344,323								

3CES-IPNLI16		CB	00047	RM	Y	N	.40.15								D
	392						NS(B)-017,REV 1B								
							IEEE 344,323								

3CES-IPNLI17		CB	00047	RM	Y	N	.40.15								D
	392						NS(B)-017 REV 1B								
							IEEE 344,323								

3CES-IPNLI16		CB	00047	RM	Y	N	.40.15								D
	392						NS(B)-017 REV 1B								
							IEEE 344,323								

PNL - PANEL

3CES*IPNLI20	INSTRUMENT PANEL-ORANGE	CB	00047	RM	Y	N	.40.15								D Y
	392						NS(B)-017 REV 1B								
							IEEE 344,322								

3CES*IPNLI21	INSTRUMENT PANEL-PURPLE	CB	00047	RM	Y	N	.40.15								D Y
	IEEE 344,322						NS(B)-017 REV 1B								
	392						IEEE 344,322								

PNL - PANEL

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CES - COMMON ELECTRICAL-SYSTEM(CONTROL BDS,ETC)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3CES*PNLBD10	ISOL PNL DIESEL BLDG ORANGE SYSTEMS CONTROL 16824,REV.2 644 STRUTHERS-DUNN ISOLT CX3917NE		EGE 00024 CF Y N	.32.15 S NS(B)-069,REV.0B IEEE 344-1975	NA NA	34+ 34+ 34+	A Y
3CES*PNLBD1P	ISOL PNL DIESEL BLDG PURPLE SYSTEMS CONTROL 16824,REV.2 644 STRUTHERS-DUNN ISOLT CX3917NE		EGE 00024 CF Y N	.31.15 S NS(B)-069,REV.0B IEEE 344-1975	NA NA	34+ 34+ 34+	A Y
3CES*PNLBE10	ISOL PNL ESF BLDG ORANGE SYSTEMS CONTROL 16824,REV.2 644 STRUTHERS-DUNN ISOLT CX3917NE		ESB 00036 CF Y N	.32.13 S NS(B)-010,REV.0B IEEE 344-1975	NA NA	34+ 34+ 34+	A Y
3CES*PNLBE1P	ISOL PNL ESF BLDG PURPLE SYSTEMS CONTROL 16824,REV.2 644 STRUTHERS-DUNN ISOLT CX3917NE		ESB 00036 CF Y N	.32.13 S NS(B)-010,REV.0B IEEE 344-1975	NA NA	34+ 34+ 34+	A Y
3CES*PNLBE20	ISOL PNL ESF BLDG ORANGE SYSTEMS CONTROL 16824,REV.2 644 STRUTHERS-DUNN ISOLT CX3917NE		ESB 00037 CF Y N	.32.13 S NS(B)-010,REV.0B IEEE 344-1975	NA NA	34+ 34+ 34+	A Y
3CES*PNLBE2P	ISOL PNL ESF BLDG PURPLE SYSTEMS CONTROL 16824,REV.2 644 STRUTHERS-DUNN ISOLT CX3917NE		ESB 00036 CF Y N	.32.13 S NS(B)-010,REV.0B IEEE 344-1975	NA NA	34+ 34+ 34+	A Y
3CES*PNLBE20	SYSTEMS CONTROL 644 STRUTHERS-DUNN ISOLT CX3917NE		ESB 00037	3624			D Y

3CES*PNLBG10	ISOL PNL EMERG SWGR RM ORANGE SYSTEMS CONTROL 16824,REV.2 644	CB 00004 CF Y N .25.15 S	NA	NA	34+	34+	34+	A	Y
	STRUTHER-DUNN ISOLAT CX3917E	NS(B)-017,REV.1B IEEE 344-1975							
3CES*PNLBG1P	ISOL PNL EMERG SWGR RM PURPLE SYSTEMS CONTROL 16824,REV.2 644	CB 00004 CF Y N .25.15 S	NA	NA	34+	34+	34+	A	Y
	STRUTHERS-DUNN ISOLT CX3917NE	NS(B)-017,REV.1B IEEE 344-1975							
3CES*PNLBG20	ISOL PNL EMERG SWGR RM ORANGE SYSTEMS CONTROL 16824,REV.2 644	CB 00004 CF Y N .25.15 S	NA	NA	34+	34+	34+	A	Y
	STRUTHER-DUNN ISOLAT CX3917E	NS(B)-017,REV.1B IEEE 344-1975							
3CES*PNLBG2P	ISOL PNL EMERG SWGR RM PURPLE SYSTEMS CONTROL 16824,REV.2 644	CB 00004 CF Y N .25.15 S	NA	NA	34+	34+	34+	A	Y
	STRUTHERS-DUNN ISOLT CX3917NE	NS(B)-017,REV.1B IEEE 344-1975							
3CES*PNLBG30	ISOL PNL EMERG SWGR RM ORANGE SYSTEMS CONTROL 16824,REV.2 644	CB 00004 CF Y N .25.15 S	NA	NA	34+	34+	34+	A	Y
	STRUTHER-DUNN ISOLAT CX3917E	NS(B)-017,REV.1B IEEE 344-1975							
3CES*PNLBG3P	ISOL PNL EMERG SWGR RM PURPLE SYSTEMS CONTROL 16824,REV.2 644	CB 00004 CF Y N .25.15 S	NA	NA	34+	34+	34+	A	Y
	STRUTHERS-DUNN ISOLT CX3917NE	NS(B)-017,REV.1B IEEE 344-1975							
3CES*PNLBG40	ISOL PNL EMERG SWGR RM ORANGE SYSTEMS CONTROL 16824,REV.2 644	CB 00024 CF Y N .25.15 S	NA	NA	34+	34+	34+	A	Y
	STRUTHER-DUNN ISOLAT CX3917E	NS(B)-017,REV.1B IEEE 344-1975							

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PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CES - COMMON ELECTRICAL-SYSTEM(CONTROL BDS,ETC)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

[illegible]

3CES*PNLBG4P ISOL PNL EMERG SWGR RM PURPLE CB 00004 CF Y N .25.15 S NA NA 34+ 34+ 34+ A Y
SYSTEMS CONTROL 16824,REV.2 NS(B)-017,REV.1B
644 IEEE 344-1975
STRUTHERS-DUNN ISOLT CX3917NE

3CES*PNLBP10 CSP 00015 CF Y N .40.16 S NA NA 34+ 34+ 34+ A Y
SYSTEMS CONTROL 16824,REV.2 NS(B)-044,REV.2B
644 IEEE 344-1975
STRUTHERS-DUNN ISOLT CX3917NE

3CES*PNLBPIP ISOL PNL CIRC WTR PH PURPLE CSP 00014 CF Y N .40.16 S NA NA 34+ 34+ 34+ A Y
SYSTEMS CONTROL 16024,REV.2 NS(B)-044,REV.2B
644 IEEE 344-1975
STRUTHERS-DUNN ISOLT CX3917NE

3CES*PNLBR10 ISOL PNL ROD CONT MCC A ORANGE MRC 00024 CF Y N .27.16 S NA NA 34+ 34+ 34+ A Y
SYSTEMS CONTROL 16024,REV 2 NS(B)-007,REV 0B
644 IEEE 344-1975
STRUTHERS-DUNN ISOLT CX3917NE

3CES*PNLBR1P ISOL PNL ROD CONT MCC A PURPLE MRC 00024 CF Y N .27.16 S NA NA 34+ 34+ 34+ A Y
SYSTEMS CONTROL 16824,REV.2 NS(B)-007,REV.0B
644 IEEE 344-1975
STRUTHERS-DUNN ISOLT CX3917NE

3CES*PNLBR10
SYSTEMS CONTROL
644 3624
STRUTHERS-DUNN ISOLT CX3917NE

3CES*PNLBR20 ISOL PNL ROD CONT MCC A ORANGE MRC 00024 CF Y N .27.16 S NA NA 34+ 34+ 34+ A Y
SYSTEMS CONTROL 16824,REV.2 NS(B)-007,REV.0B
644 IEEE 344-1975
STRUTHERS-DUNN ISOLY CX3917NE

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PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/64

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CES - COMMON ELECTRICAL-SYSTEM(CONTROL BDS,ETC)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	B.LDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. CODES	LOADS INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	F/B	S/S	VERT	SQ	INS
3CES*PNLBR2P	ISOL PNL ROD CONT MCC A PURPLE SYSTEMS CONTROL 644 STRUTHERS-DUNN ISOLT CX3917NE	16824,REV.2 644	MRC 00024	CF Y N	.27.16 S	NA NA	34+	34+	34+	A	Y
3CES*PNLBR20	SYSTEMS CONTROL 644 STRUTHERS-DUNN ISOLT CX3917NE		MRC		3624						D Y
3CES*PNLBR30	ISOL PNL ROD CONT MCC A ORANGE SYSTEMS CONTROL 644 STRUTHERS-DUNN ISOLT CX3917NE	16824,REV.2 644	MRC 00024	CF Y N	.27.16 S	NA NA	34+	34+	34+	A	Y
3CES*PNLBR3P	ISOL PNL ROD CONT MCC A PURPLE SYSTEMS CONTROL 644 STRUTHERS-DUNN ISOLT CX3917NE	16824,REV.2 644	MRC 00024	CF Y N	.27.16 S	NA NA	34+	34+	34+	A	Y
3CES*PNLBR30	SYSTEMS CONTROL 644 STRUTHERS-DUNN ISOLT CX3917NE				3624						D Y
3CES*PNLBR40	ISOL PNL ROD CONT MCC A ORANGE SYSTEMS CONTROL 644 STRUTHERS-DUNN ISOLT CX3917NE	16824,REV.2 644	MRC 00024	CF Y N	.27.16 S	NA NA	34+	34+	34+	A	Y
3CES*PNLBR4P	ISOL PNL ROD CONT MCC A PURPLE SYSTEMS CONTROL 644 STRUTHERS-DUNN ISOLT CX3917NE	16824,REV.2 644	MRC 00024	CF Y N	.27.16 S	NA NA	34+	34+	34+	A	Y

REPORT NO. MSSQT1

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UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CES - COMMON ELECTRICAL-SYSTEM(CONTROL BDS,ETC)

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDS ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	QUAL METH --	NAT FREQS ----	STATUS
	VENDOR	SPEC	RRS REF	DYN. INPUT	FREQ DIR			
	VEND MODEL	MANUFAC MODEL	CODES	(ZPA)				

3CES*PNLBR50	ISOL PNL ROD CONT MCC A ORANGE	16824,REV.2	MRC 00024 CF	Y N	.27.16 S	NA NA	34+ 34+ 34+	A Y
	SYSTEMS CONTROL	644	NS(B)-007,REV.0B					
	STRUTHERS-DUNN ISOLT	CX3917NE	IEEE 344-1975					
3CES*PNLBR5P	ISOL PNL ROD CONT MCC A PURPLE	16824,REV.2	MRC 00024 CF	Y N	.27.16 S	NA NA	34+ 34+ 34+	A Y
	SYSTEMS CONTROL	644	NS(B)-007,REV.0B					
	STRUTHERS-DUNN ISOLT	CX3917NE	IEEE 344-1975					
3CES*PNLBS10	ISOL PNL SPREADING ROOM ORANGE	16824,REV.2	CB 00024 CF	Y N	.30.15 S	NA NA	34+ 34+ 34+	A Y
	SYSTEMS CONTROL	644	NS(B)-017,REV.1B					
	STRUTHER-DUNN ISOLAT	CX3917E	IEEE 344-1975					
3CES*PNLBS1P	ISOL PNL SPREADING ROOM PURPLE	16824,REV.2	CB 00024 CF	Y N	.30.15 S	NA NA	34+ 34+ 34+	A Y
	SYSTEMS CONTROL	644	NS(B)-017,REV.1B					
	STRUTHERS-DUNN ISOLT	CX3917NE	IEEE 344-1975					
3CES*PNLBS20	ISOL PNL SPREADING ROOM ORANGE	16824,REV.2	CB 00024 CF	Y N	.30.15 S	NA NA	34+ 34+ 34+	A Y
	SYSTEMS CONTROL	644	NS(B)-017,REV.1B					
	STRUTHER-DUNN ISOLAT	CX3917E	IEEE 344-1975					
3CES*PNLBS2P	ISOL PNL SPREADING ROOM PURPLE	16824,REV.2	CB 00024 CF	Y N	.30.15 S	NA NA	34+ 34+ 34+	A Y
	SYSTEMS CONTROL	644	NS(B)-017,REV.1B					
	STRUTHERS-DUNN ISOLT	CX3917NE	IEEE 344-1975					
3CES*PNLBS30	ISOL PNL SPREADING ROOM ORANGE	16824,REV.2	CB 00024 CF	Y N	.30.15 S	NA NA	34+ 34+ 34+	A Y
	SYSTEMS CONTROL	644	NS(B)-017,REV.1B					
	STRUTHER-DUNN ISOLAT	CX3917E	IEEE 344-1975					

[illegible]

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	MTG	SEIS OTHER REQ'D	DYN.	INPUT	FREQ DIR
VENDOR	QUAL REPORT			RRS REF			
VEND MODEL	SPEC			CODES		(ZPA)	
MANUFACTURER	MANUFAC MODEL						

SHEC EQUIPMENT

TK - TANK

3CHS*TK5A	BOIC ACID TANK	AB 00043 CF Y N .32.18 S	SF	SD	22+	22+	22+	A Y
	RICHMOND	12179-IE-307	NS(B)-007-REV.0B					
	D74411-14	023	ASHE SECT III,CL3					

3CHS*TK5B	BORIC ACID TANK		AB	00043	CF	Y	N	.32.18	S	SF	SD	22+	22+	2.4	A	I
	RICHMOND	12179-IE-307						NS(B)-007-REV.0B								
	D74411-10	023						ASME SECT III,CL3								

LCV - VALVE, CONTROL, LEVEL, SELF ACTUATED

[illegible][illegible][illegible]

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3CHS#LCV112E	RKST TO CHG PHP WALNORTH D-51379-1 LIMITORQUE OPERATOR	ALSR-7 153 SB-0-25	AB 00004 DM NA ASME III,CL2	Y N 3G	S NA NA	33+	A Y
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MV - VALVE, MOTOR OPERATED

3CHS#MV8105	CHRG PP TO RX CLT SYS ISOL WALNORTH D-51742-3 LIMITORQUE OPERATOR	ADSR-8 153 SMB-00-25	AB 00024 DM NA ASME III,CL2	Y N 3G	S NA NA	33+	A Y
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3CHS#MV8106	CHRG PP TO RX CLT SYS ISOL WALNORTH D-51742-3 LIMITORQUE OPERATOR	ADSR-8 153 SMB-00-25	AB 00004 DM NA ASME III,CL2	Y N 3G	S NA NA	33+	A Y
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AOV - VALVE, AIR OPERATED

3CHS#AOV64	GRO FAIL FUEL DET PG WTR INL FQP-22-1B 667NS-ES	185	AB 00004 DM NA ASME III,CL2	Y N 3G	S NA NA	33+	A Y
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3CHS#AOV68	GRO FAIL FUEL DET FLUID INL FQP-22-1B 667NS-ES	185	AB 00004 DM NA ASME III,CL2	Y N 3G	S NA NA	33+	A Y
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3CHS#AOV71	VOL CONT TH FQP-22-1B 667NS-YS	185	AB 00043 DM NA ASME III,CL2	Y N 3G	S NA NA	33+	A Y
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AV - VALVE, ANALYZER; VALVE, AIR OPERATED, (WESTINGHOUSE)

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

[illegible]

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSS[®] SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS DYN.	OTHER INPUT (ZPA)	REQ'D ANLYS	TEST TEST FREQ DIR	NAT FREQS F/B S/S	VERT SQ INS	STATUS
3CHS*AV7022	CHLR HT EXCH DIVERT	FQP-22-1B 185	AB 00004 DM NA ASME III,CL3	Y	N	3G	S	NA NA	33+	A Y
3CHS*AV7040	CHLR HT EXCH DIVERT	FQP-22-1B 185	AB 00004 DM NA ASME III,CL3	Y	N	3G	S	NA NA	33+	A Y
3CHS*AV7041	CHLR HX BYP	FQP-22-1B 185	AB 00004 DM NA ASME III,CL3	Y	N	3G	S	NA NA	33+	A Y
3CHS*AV7045	DEMN OUT HDR	FQP-22-1B 185	AB 00004 DM NA ASME III,CL3	Y	N	3G	S	NA NA	33+	A Y
3CHS*AV7046	DEMN OUT HDR	FQP-22-1B 185	AB 00004 DM NA ASME III,CL3	Y	N	3G	S	NA NA	33+	A Y
3CHS*AV7054	BORON THRN REGEN SYST ISOL	FQP-22-1B 185	AB 00004 DM NA ASME III,CL3	Y	N	3G	S	NA NA	33+	A Y
3CHS*AV7057	TOP/BTH DEMIN DIVERT	FQP-22-1B 185	AB 00025 DM NA ASME III,CL3	Y	N	3G	S	NA NA	33+	A Y

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D	LOADS	NAT FREQS	ANLYS TEST TEST	F/B	S/S	VERT	SQ INS
			RK3 REF CODES	DYN. INPUT (ZPA)			FREQ DIR				
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
3CHS*AV8101	VOL CONT TH TO VENT HDR ISOL 667NS-ES	FQP-22-1B 185	AB 00043 DM NA ASME III,CL2	Y N 3G S	NA NA	33+	A Y				
3CHS*AV8141A	RCP 1 SEAL LEAK OFF ISOL 657NS-ES	FQP-22-1B 185	CS 00005 DM NA ASME III,CL2	Y N 3G S	NA NA	33+	A Y				
3CHS*AV8141B	RCP 2 SEAL LEAKOFF ISOL 657NS-DBQNS	FQP-22-1B 185	CS 00018 DM NA ASME III,CL2	Y N 3G S	NA NA	33+	A Y				
3CHS*AV8141C	RCP 3 SEAL LEAKOFF ISOL 657NS-DBQNS	FQP-22-1B 185	CS 00007 DM NA ASME III,CL2	Y N 3G S	NA NA	33+	A Y				
3CHS*AV8141D	RCP 4 SEAL LEAKOFF ISOL 657NS-DBQNS	FQP-22-1B 185	CS 00018 DM NA ASME III,CL2	Y N 3G S	NA NA	33+	A Y				
3CHS*AV8143	EXCESS LTDN TO VCT/CDTT FISHER 657NS-YS NAMCO LIMIT SWITCH	FQP-22-1B 185 EA 180	CS 00010 DM NA ASME III,CL2	Y N 3G S	NA NA	33+	A Y				
3CHS*AV8146	CHG TO RX CLT SYS ISOL FISHER 657NS-ES NAMCO LIMIT SWITCH	FQP-22-1B 185 EA 180	CS 00010 DM NA ASME III,CL2	Y N 3G S	NA NA	33+	A Y				

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NCS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
					RRS REF	DYN.	INPUT									
					CODES		(ZPA)									

3CHS*AV8147	CHG TO RX CLT SYS ISOL FISHER 657NS-ES NAMCO LIMIT SWITCH	FQP-22-1B 185 EA 180	CS	00010	DM	Y	N	3G	S	NA	NA	33+		A	Y	
3CHS*AV8149A	LTDN ORIFICE ISOL FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-1B 185 EA 180	CS	00001	DM	Y	N	3G	S	NA	NA	33+		A	Y	
3CHS*AV8149B	LTDN ORIFICE ISOL FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-1B 185 EA 180	CS	00001	DM	Y	N	3G	S	NA	NA	33+		A	Y	
3CHS*AV8149C	LTDN ORIFICE ISOL FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-1B 185 EA 180	CS	00001	DM	Y	N	3G	S	NA	NA	33+		A	Y	

CV - VALVE, CONTAINMENT ISOLATION, (WESTINGHOUSE)

3CHS*CV8152	LTDN L ISOL FISHER 667NS-ES NAMCO LIMIT SWITCH	FQP-22-4 185 EA 180	AB	00004	DM	Y	N	3G	S	NA	NA	33+		A	Y	
3CHS*CV8160	LTDN ISOL FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-8 185 EA 180	CS	00004	DM	Y	N	3G	S	NA	NA	33+		A	Y	

FCV - VALVE, CONTROL, FLOW, SELF ACTUATED

REPORT NO. NSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS		STATUS
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER REQ'D	ANLYS TEST	TEST	F/B	S/S	VERT	

3CHS*FCV110A	BA BLEND CONTROL FISHER 657NS-ES NAMCO LIMIT SWITCH	FQP-22-1B 185 EA 180	AB	00024	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A
3CHS*FCV110B	BA BLEND CONTROL FISHER 667NS-ES NAMCO LIMIT SWITCH	FQP-22-1B 185 EA 180	AB	00043	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A
3CHS*FCV111A	TOTAL MKUP CONT FISHER 667NS-ES NAMCO LIMIT SWITCH	FQP-22-1B 185 EA 180	AB	00043	DM NA ASME III,CL3	Y	N	3G	S	NA	NA	33+	A
3CHS*FCV111B	TOTAL MKUP CONT FISHER 667NS-ES NAMCO LIMIT SWITCH	FQP-22-1B 185 EA 180	AB	00043	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A
3CHS*FCV121	CHARGING LINE 657NS-DBQNS	FQP-22-1B 185	AB	00004	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A Y

FV - VALVE, FLOW

3CHS*FV99	VCT SWIRL CONTROL 667NS-ES	FQP-22-1B 185	AB	00054	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A
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HCV - VALVE, CONTROL, HAND

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS			STATUS	
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ INS
3CHS*HCV123	EXCESS LTDN FLOW	FQP-22-1B	CS	-0011	DM	Y	N	3G	S	NA	NA	33+	A	Y
	667NS-DBQNS	185			NA									
					ASME	III	CL2							
3CHS*HCV128	LTDN FROM RHR	FQP-22-1B	AB	00004	DM	Y	N	3G	S	NA	NA	33+	A	Y
	667NS-ES	185			NA									
					ASME	III	CL1							
3CHS*HCV182	CHG HDR	FQP-22-1B	AB	00024	DM	Y	N	3G	S	NA	NA	33+	A	Y
	657NS-DBQNS	185			NA									
					ASME	III	CL2							
3CHS*HCV387	LTDN DIVERSION TO BYRS	FQP-22-1B	AB	00004	DM	Y	N	3G	S	NA	NA	33+	A	Y
	657NS-ED	185			NA									
					ASME	III	CL3							

LCV - VALVE, CONTROL, LEVEL, SELF ACTUATED

3CHS*LCV112A	VOL CONT TK	FQP-22-1B	AB	00043	DM	Y	N	3G	S	NA	NA	33+	A	Y
	FISHER	185			NA									
	667NS-YS				ASME	III	CL2							
	NAHCO LIMIT SWITCH	EA 180												

PCV - VALVE, CONTROL, PRESSURE, SELF ACTUATED

3CHS*PCV131	LO PRESS LTDN	FQP-22-1B	AB	00004	DM	Y	N	3G	S	NA	NA	33+	A	Y
	657NS-ES	185			NA									
					ASME	III	CL1							

SOV - VALVE, SOLENOID

REPORT NO. MSSQTL

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/64

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	NAT FREQS	STATUS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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3CHS*SOV110B	BA BLEND CONT FISHER	AQR-67638 185	CS	00055	EM	Y	N	3G	N	SF	SD	*	35+	A	Y
	ASCO SOLENOID	NPK 8320			NA										
					IEEE			323,344,382							
3CHS*SOV111A	TOTAL HKUP CONT FISHER	AQR-67638 185	AB	00045	EM	Y	N	3G	N	SF	SD	*	35+	A	Y
	ASCO SOLENOID	NPK 8320			NA										
					IEEE			323,344,382							
3CHS*SOV111B	TOTAL HKUP CONT FISHER	AQR-67638 185	AB	00049	EM	Y	N	3G	N	SF	SD	*	35+	A	Y
	ASCO SOLENOID	NPK 8320			NA										
					IEEE			323,344,382							
3CHS*SOV129	LTON DEMN/VCT FISHER	AQR-67638 185	AB	00025	EM	Y	N	3G	N	SF	SD	*	35+	A	Y
	ASCO SOLENOID	NPK 8320			NA										
					IEEE			323,344,382							

SV - VALVE; SOLENOID, (WESTINGHOUSE)

3CHS*SV110A1	BA BLEND CONT FISHER	AQR-67638 185 NPK 8320	AB	00024	EM	Y	N	3G	N	SF	SD	*	35+	A	Y
	ASCO SOLENOID				NA										
					IEEE			323,344,382							
3CHS*SV110A2	BA BLEND CONT FISHER	AQR-67638 185 NPK 8320	AB	00024	EM	Y	N	3G	N	SF	SD	*	35+	A	Y
	ASCO SOLENOID				NA										
					IEEE			323,344,382							
3CHS*SV112A1	VOL CONT TANK FISHER	AQR-67638 185 NPK 8320	AB	00057	EM	Y	N	3G	N	SF	SD	*	35+	A	Y
	ASCO SOLENOID				NA										
					IEEE			323,344,382							

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

[illegible]

1. 本行在 2019 年 12 月 31 日及 2020 年 6 月 30 日，均无因提供担保而形成的或有负债。

3CHS*SV112A2	VOL CONT TANK FISHER	AQR-67638 185 NPK 8320	AB 00057	EM Y N 3G	N SF SD *	35+	A Y
	ASCO SOLENOID			IEEE 323,344,382			
3CHS*SV8143	EXCESS LTDN TO VCT/CDTT FISHER	AQR-67368 185 NPK 8320	CS 00009	EM Y N 3G	N SF SD	35+	A Y
	ASCO SOLENOID			IEEE 323,344,382			
3CHS*SV8146	CHG TO RX CLT SYS ISOL FISHER	AQR-67368 185 NPK 8320	CS 00010	EM Y N 3G	N SF SD	35+	A Y
	ASCO SOLENOID			IEEE 323,344,382			
3CHS*SV8147	CHG TO RX CLT SYS ISOL FISHER	AQR-67368 185 NPK 8320	CS 00010	EM Y N 3G	N SF SD	35+	A Y
	ASCO SOLENOID			IEEE 323,344,382			
3CHS*SV8149A	LTDN ORIFICE ISOL FISHER	AQR-67368 185 NPK 8320	CS 00001	EM Y N 3G	N SF SD	35+	A Y
	ASCO SOLENOID			IEEE 323,344,382			
3CHS*SV8149B	LTDN ORIFICE ISOL FISHER	AQR-67638 185 NPK 8320	CS 00001	EM Y N 3G	N SF SD *	35+	A Y
	ASCO SOLENOID			IEEE 323,344,382			
3CHS*SV8149C	LTDN ORIFICE ISOL FISHER	AQR-67638 185 NPK 8320	CS 00001	EM Y N 3G	N SF SD *	35+	A Y
	ASCO SOLENOID			IEEE 323,344,382			

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/65

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZP4)			
MANUFACTURER	MANUFAC MODEL					

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3CHS*SV8152	LTDN L ISOL FISHER	AQR-67638 185	AB	00004	EH	Y	N	3G		N	SF	SD	*	35+		A	Y
	ASCO SOLENOID	NPK 8320							IEEE 323,344,382								
3CHS*SV8160	LTDN ISOL FISHER	AQR-67368 185	CS	00004	EH	Y	N	3G		N	SF	SD		35+		A	Y
	ASCO SOLENOID	NPK 8320							IEEE 323,344,382								

TCV - VALVE, CONTROL, TEMPERATURE, SELF ACTUATED

3CHS*TCV129	LTDN DEMN/VCT FISHER 657NS-YS NAMCO LIMIT SWITCH	FQP-22-1B 185 EA 180	AB	00004	DM	Y	N	3G	S	NA	NA	33+	A	Y
3CHS*TCV381A	LTDN REHT HX OUT 667NS-ED	FQP-22-1B 185	AB	00024	DM	Y	N	3G	S	NA	NA	33+	A	Y
3CHS*TCV381B	LTDN REHT HX OUT 657NS-ED	FQP-22-1A 185	AB	00025	DM	Y	N	3G	S	NA	NA	33+	A	Y

RV - VALVE,RELIEF

3CHS*RV7006 LTDN REHEAT HX OUT PRESS AB 00035 DM Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-20/S4 186 ASM: III,CL3

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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
			RRS REF CODES	DYN.	INPUT	(ZPA)				FREQ	DIR				
3CHS*RV8113	CTNMT PRESS RELIEF LCT-14/S4	407487-REV.5 186	CS 00007 DM	Y	N	3G	S	SF	SD			33+		A	Y
			NA ASME III,CL2												
3CHS*RV8117	LTDN ORIFICE OUT PRESS RLF DB-50J/S4	407487-REV.5 186	CS 00005 DM	Y	N	3G	S	SF	SD			33+		A	Y
			NA ASME III,CL2												
3CHS*RV8119	FILTER INLET DB-30J/S4	407487-REV.5 186	AB 00009 DM	Y	N	3G	S	SF	SD			33+		A	Y
			NA ASME III,CL2												
3CHS*RV8120	VOLUME CONT TR PRESS DBO-10L/S4	407487-REV.5 186	AB 00010 DM	Y	N	3G	S	SF	SD			33+		A	Y
			NA ASME III,CL2												
3CHS*RV8121	RCP SEAL WTR RTN PRESS DB-10K/S4	407487-REV.5 186	CS 00007 DM	Y	N	3G	S	SF	SG			33+		A	Y
			NA ASME III,CL2												
3CHS*RV8123	RCP SEAL WTR RTN HDR PRESS DB-10L/S4	407487-REV.5 186	AB 00009 L.	Y	N	3G	S	GF	SD			33+		A	Y
			NA ASME III,CL2												
3CHS*RV8124	CHG PMP SUCT PRESS DB-10F/S4	407487-REV.5 186	AB 00026 DM	Y	N	3G	S	SF	SD			33+		A	Y
			NA ASME III,CL2												

TRS - SWITCH, TRANSFER

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

```

3CHS*TRS-P3C      MANUAL XFR SW FOR 3CHS*P3C      AB 00024 CF      Y      N      .27.16 N      MF      MD      NA      NA      NA      NA      A Y
GOULD BROWN BOVERI 33-49988-SS,ADD.2      NS(B)-007,REV.0B
243      IEEE 344
BROWN BOVERI      HPL-C

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LI - INDICATOR, LEVEL

JCHS=LI102A BORIC ACID TK5A CB 00046 CM Y N .40.15 N MF MD NA NA NA A
15880,REV 2 NS(B)-017 REV 1B
N TYPE 252,4-20 MA 246 IEEE 323

JCHS#LI104A BORIC ACID TK5A CB 00048 CM Y N .40.15 N MF MD NA NA NA A
15880,REV 2 NS(B)-017 REV 1B
N TYPE 252,4-20 MA 246 IEEE 323

3CHS*LI105A BORIC ACID TH5B CB 00046 CH Y N .40.15 N HF MD NA NA NA A
15880,REV 2 NS(B)-017 REV 1B
W TYPE 252,4-20 MA 246 IEEE 323

3CHS*LI106A BORIC ACID TH5B CB 00048 CM Y N .40.15 N MF MD NA NA NA A
15860,REV 2 NS(B)-017 REV 1B
W TYPE 252,4-20 MA 246 IEEE 323

TS - SWITCH, TEMPERATURE

3CHS*TS129	LTDN DEMN/VCT		CB 00048 RM Y N .40.15 N HF MD NA NA NA C
	FOXBORO	GQAAB33	NS(B)-017 REV 1B
	N-2AP+ALM-AR	392	IEEE 344,323
	SIGNAL BISTABLES	N-2AP+ALM-AR	

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC	RRS REF	DYN.	INPUT	FREQ	DIR									
	VEND MODEL	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)											

3CHS*TS382	LTDN REHT HX OUT		CB	00048	RM	Y	N	.40.15	N	MF	MD	NA	NA	NA		C
	FOXBORO	Q0AAB33														
	N-2AP+ALM-AR	392														
	SIGNAL BISTABLES	N-2AP+ALM-AR														

TY - RELAY, COMPUTING, SELECTING OR BOOSTER, TEMPERATURE

3CHS*TY129	LTDN DEMV/VCT		CB	00048	M	Y	N	.40.15								A
	FOXBORO	Q0AAB29														
	N-2AI-P2V	392														
	R/E CONVERTER	N-2AI-P2V														

3CHS*TY382	LTDN REHT HX OUT		CB	00048	M	Y	N	.40.15								A
	FOXBORO	Q0AAB29														
	N-2AI-P2V	392														
	R/E CONVERTER	N-2AI-P2V														

AE - ANALYZER ELEMENT

3CHS*AE73	RX CLT BORON CONDESATION		AB	00004	CH	Y	N	.18.12	S	NA	NA		30+			B
	EDTC-13, ATT.1															
	5786-5	459														

MV - VALVE, MOTOR OPERATED

3CHS*MV8104	BORIC ACID FLT TO CHG PP		AB	00024	DM	Y	N	3G	S	NA	NA		33+			A Y
	YARWAY	1030-3														
	5515B-F316H	472														
	LIMITORQUE	SHB-00-5														

SOV - VALVE, SOLENOID

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SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQS	STATUS
	VENDOR	QUAL REPORT	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
	VEND MODEL	SPEC	RRS REF	DYN. INPUT	FREQ DIR		
	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)			

3CHS*SOV390A	GRD FAIL FUEL DET FLUID INL		AB 00004 DM	Y N 3G	S NA NA	33+	A Y
	3040		NA				
	81V-005	654	ASME III,CL2				

3CHS*SOV390B	GRD FAIL FUEL DET FLUID INL		AB 00004 DM	Y N 3G	S NA NA	33+	A Y
	3040		NA				
	81V-005	654	ASME III,CL2				

MV - VALVE, MOTOR OPERATED

3CHS*MV8100	RCP SEAL WTR ISOL		AB 00004 DM	Y N 3G	S NA NA	33+	A Y
	YARWAY CORPORATION	1030-3	NA				
	5515B-F316H	655	ASME III,CL2				
	LIMITORQUE	SMB-00-5					

3CHS*MV8109A	RCP SEAL WTR ISOL		AB 00004 DM	Y N 3G	S NA NA	33+	A Y
	YARWAY	1030-3	NA				
	5515B-F316H	655	ASME III,CL2				
	LIMITORQUE	SMB-00-10					

3CHS*MV8109B	RCP SEAL WTR ISOL		AB 00004 DM	Y N 3G	S NA NA	33+	A Y
	YARWAY	1030-3	NA				
	5515B-F316H	655	ASME III,CL2				
	LIMITORQUE	SMB-00-10					

3CHS*MV8109C	RCP SEAL WTR ISOL		AB 00004 DM	Y N 3G	S NA NA	33+	A Y
	YARWAY	1030-3	NA				
	5515B-F316H	655	ASME III,CL2				
	LIMITORQUE	SMB-00-10					

3CHS*MV8109D	RCP SEAL WTR ISOL		AB 00004 DM	Y N 3G	S NA NA	33+	A Y
	YARWAY	1030-3					
	5515B-F316H	655	ASME III,CL2				
	LIMITORQUE	SMB-00-10					

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NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID		EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS	
DESCRIPTION		BLDG ELEV		MTG		SEIS OTHER		REQ'D		ANLYS TEST		TEST	
VENDOR		QUAL REPORT		RRS REF		DYN.		INPUT		F/B		S/S	
VEND MODEL		SPEC		CODES				(ZPA)		FREQ		DIR	
MANUFACTURER		MANUFAC MODEL											

3CHS#HV8110	CHG PP MINI FLOW ISOL YARWAY 5515B-F316M LIMITORQUE	1030-3 655 SMB-00-10	AB	00024	DM	Y	N	3G	S	NA	NA	33+	A	Y
3CHS#HV8111A	CHG PHP RECIRC YARWAY CORPORATION 5515B-F316M LIMITORQUE	1030-3 655 SMB-00-10	AB	00024	DM	Y	N	3G	S	NA	NA	33+	A	Y
3CHS#HV8112	RCP SEAL WTR ISOL YARWAY 5515B-F316M LIMITORQUE	1030-3 655 SMB-00-5	CS	00008	DM	Y	N	3G	S	NA	NA	33+	A	Y

LT - TRANSMITTER, LEVEL

3CHS*LT102	BORIC ACID TK5A ROSEMOUNT 1153DB DIFF PRSSR TRANSMITR	TK5A 108025 662 1153DB5PC	AB 00024	RH	Y	N	.27.16	N	MF	MD	50	47	50	A	Y
3CHS*LT104	BORIC ACID TK5A ROSEMOUNT 1153DB DIFF PRSSR TRANSMITR	TK5A 108025 662 1153DB5PC	AB 00024	RH	Y	N	.27.16	N	MF	MD	50	47	50	A	Y
3CHS*LT105	BORIC ACID TK5B ROSEMOUNT 1153DB DIFF PRSSR TRANSMITR	TK5B 108025 662 1153DB5PC	AB 00024	RH	Y	N	.27.16	N	MF	MD	50	47	50	A	Y
3CHS*LT106	BORIC ACID TK5B ROSEMOUNT 1153DB DIFF PRSSR TRANSMITR	TK5B 108025 662 1153DB5PC	AB 00024	RH	Y	N	.27.16	N	MF	MD	50	47	50	A	Y

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SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

TE - TEMPERATURE ELEMENT, PRIMARY

[illegible]

NSSS EQUIPMENT

EL - BLENDER

3CHS=BL1	BORIC ACID BLENDER HEATINGHOUSE	W-001 001	AS 00043 CF	S	NA	NA	*	33+	A Y
			ASME III						

DEMN - DEMINERALIZER

SCHS#DEMNIA	MIXED BED DEMINERALIZER		AB	00024 CF	Y	N	1.5.75 S	NA	NA	*	33+	A Y
	WESTINGHOUSE	H-001										
		001		ASME III								

3CHS*DEHN1B	MIXED RED DEMINERALIZER	AB	00028 CF	Y	N	1.5.75 S	NA	NA	*	33+	A Y
	W-001										
	001		ASME III								

REPORT NO. HSS071

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS					
	DESCRIPTION		BLDG	ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT				RRS REF		DYN.	INPUT		FREQ	DIR				
	VEND MODEL	SPEC				CODES			(ZPA)							
	MANUFACTURER	MANUFAC MODEL														

3CHS*DEHN2	LETDOWN CATION BED DEMIN		AB	00028	CF	Y	N	1.5.75	S	NA	NA	*	33+		A	Y
	WESTINGHOUSE	N-001														
		001														

ASME III

3CHS*DEHN3A	THERMAL REGEN DEMIN		AB	00028	CF										D	Y
	WESTINGHOUSE															
		001														

*

3CHS*DEHN3B	THERMAL REGEN DEMIN		AB	00028	CF										D	Y
		001														

3CHS*DEHN3C	THERMAL REGEN DEMIN		AB	00028	CF										D	Y
		001														

3CHS*DEHN3D	THERMAL REGEN DEMIN		AB	00028	CF										D	Y
		001														

3CHS*DEHN3E	THERMAL REGEN DEMIN		AB	00028	CF										D	Y
		001														

E - EXCHANGER, HEAT

3CHS*E1	REGENERATIVE HEAT EXCHANGER		CS	-0011	CF	Y	N	1.5.75	S	NA	NA	*	33+		A	I
	WESTINGHOUSE	N-001														
		001														

ASME III

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	LOADS	QUAL METH --	NAT FREQS ----	STATUS
*****	*****	*****	*****	*****	*****	*****	*****	*****
3CHS#E2	LETDOWN HEAT EXCHANGER WESTINGHOUSE	H-001 001	AB 00024 CF	Y N 1.5.75 S NA NA *	33+	A Y		
			ASME III					
3CHS#E3	EXCESS LETDOWN HEAT EXCHANGER WESTINGHOUSE	H-001 001	CS -0011 CF	Y N 1.5.75 S NA NA *	33+	A Y		
			ASME III					
3CHS#E4	SEAL WATER HEAT EXCHANGER WESTINGHOUSE	H-001 001	AB 00024 CF	Y N 1.5.75 S NA NA *	33+	A Y		
			ASME III					
3CHS#E5	MODERATING HEAT EXCHANGER WESTINGHOUSE	001	AB 00024 CF			D Y		
			ASME III					
3CHS#E6	LETDOWN CHILLER HEAT EXCH WESTINGHOUSE	001	AB 00024 CF			D Y		
3CHS#E7	LETDOWN REHEAT HEAT EXCH WESTINGHOUSE	001	AB 00024 CF			D Y		
3CHS#E9A	CHARGING PUMPS LO COOLER WESTINGHOUSE	001	AB 00024 CF			D Y		

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SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

[illegible]

1. 本行乃香港銀行業之龍頭，為香港金融體系之核心，為香港提供金融服務，為香港經濟之發展作出貢獻。本行在過去數十年來，一直致力於為香港提供優質、穩健、及具創意的金融服務，並為香港經濟之發展作出貢獻。本行在過去數十年來，一直致力於為香港提供優質、穩健、及具創意的金融服務，並為香港經濟之發展作出貢獻。

3CHS#E9B CHARGING PUMPS LO COOLER AB 00024 CF D Y
NESTINGHOUSE
001

3CHSWE9C CHARGING PUMPS LO COOLER AB 00024 CF D Y
WESTINGHOUSE
001

FLT - FILTER

3CHS*FLT1	SEAL WATER RETURN FILTER	AB	00024	DM	Y	N	1.5.75	S	NA	NA	*	33+	A	Y
	WESTINGHOUSE		M-001											
	001						ASME III							

3CHS#FLT2	REAC CLNT FILTER WESTINGHOUSE	W-001 001	AB 00024 DM	Y	N	1.5.75	S	NA	NA	*	33+	A	Y
			ASME III										

3CHS=FLT3A	SEAL WATER INJECT FILTER	AB	00024 DM	Y	N	1.5.75 S	NA	NA	*	33+	A Y
	WESTINGHOUSE		M-001								
			001			ASME III					

3CHS*FLT3B	SEAL WATER INJECT FILTER	AB	00024	DM	Y	N	1.5.75	S	NA	NA	*	33+	A	Y
	WESTINGHOUSE		H-001											
			001				ASME	III						

3CHS*FLT4	BORIC ACID FILTER	AB	00024	DM	Y	N	1.5.75	S	NA	NA	*	33+	A	Y
	WESTINGHOUSE	W-001												
		001					ASME	III						

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NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS						
	DESCRIPTION	VENDOR	BLDG	ELEV	MTG	SETS	OTHER	REQ'D	ANLYS	TEST		TEST	F/B	S/S	VERT	SQ	INS
	VEND MODEL	QUAL REPORT															
	MANUFACTURER	SPEC															
		MANUFAC MODEL															

3CHS#FLT5	LETDOWN FILTER		AB	00028	DM												D Y
	WESTINGHOUSE																

001 ASME III

FP - CONNECTION, FLOW

3CHS#FP139	LOOP FILL HDR		CB		DM												D
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001

3CHS#FP183	EMER BORATION		CB		DM												D
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001

FT - TRANSMITTER, FLOW

3CHS#FT110	BA BLEND CONT		AB	00024	DM												D
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001

HC - CONTROLLER, HAND

3CHS#HC190A	CHG HDR FLOW CONT.		CB	00048	EM												D
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WESTINGHOUSE

001

3CHS#HC190A1	CHG HDR FLOW CONT.		CB	00048	EM												D
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WESTINGHOUSE

001

REPORT NO. NSSRT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 58-423

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NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	BLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR															
	VEND MODEL															
	MANUFACTURER															
3CHS*HC1908	CHG HDR FLOW CONT.		CB	00008	EH											D
	WESTINGHOUSE	001														
3CHS*HC19081	CHG HDR FLOW CONT.		CB	00008	EH											D
	WESTINGHOUSE	001														

HCV - VALVE, CONTROL, HAND

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	BLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR															
	VEND MODEL															
	MANUFACTURER															
3CHS*HCV184	LOOP FILL HDR FLOW	M-001	AB	00004	DM	Y	N	2.1	S	NA	NA	*	33+			A Y
		001														
3CHS*HCV190A	CHARGING HDR FLOW VV	M-001	AB	00004	DM	Y	N	2.1	S	NA	NA	*	33+			A Y
	WESTINGHOUSE	001														
3CHS*HCV190B	CHARGING HDR FLOW VV	M-001	AB	00024	DM	Y	N	2.1	S	NA	NA	*	33+			A Y
	WESTINGHOUSE	001														
	TARGET ROCK(SOL&LS)															

LI - INDICATOR, LEVEL

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	BLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR															
	VEND MODEL															
	MANUFACTURER															
3CHS*LI102	BORIC ACID TRNSA		CB	00008	CM	Y	N	.40.15	N	MF	MD	NA	NA			C
	WEST TYPE 252															

SOP-99X2087-A
NSIB)-017, REV IB
IEEE 344 & NUREG 0600

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV HTG RRS REF CODES	LOADS SEIS OTHER DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S	VERT	STATUS SQ INS
3CHS*LI104	BORIC ACID TK5A		CB 00048 EH					D
		001	*					
3CHS*LI105	BORIC ACID TK5B		CB 00048 EH					D
		001						
3CHS*LI106	BORIC ACID TK5B		CB 00048 EH					D
		001						
MV - VALVE, MOTOR OPERATED								
3CHS*MV8111B	CHG PHP RECIRC WESTINGHOUSE	H-001 001	AB 00024 DH ASME III	Y N 2.1	S NA NA	* 33+		A Y
3CHS*MV8111C	CHG PHP RECIRC WESTINGHOUSE	H-001 001	AB 00024 DH ASME III	Y N 2.1	S NA NA	* 33+		A Y
3CHS*MV8116	CONTROL VLV WESTINGHOUSE NSSS	H-001 001	AB 00004 DH ASME III	Y N 2.1	S NA NA	* 33+		A Y
3CHS*MV8438A	CHG PP HDR ISOL VV WESTINGHOUSE NSSS	H-001 001	AB 00024 DH ASME III	Y N 2.1	S NA NA	* 33+		A Y

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/04

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3CHS*HV8438B	CHG PP HDR ISOL VV WESTINGHOUSE NSSS	W-001 001	AB 00024 DM	Y N 2.1	S NA NA *	33+	A Y
			ASME III				
3CHS*HV8438C	CHG PP HDR ISOL VV WESTINGHOUSE NSSS	W-001 001	AB 00024 DM	Y N 2.1	S NA NA *	33+	A Y
			ASME III				
3CHS*HV8468A	LP SI CHG PP SUCT VV WESTINGHOUSE NSSS	W-001 001	AB 00024 DM	Y N 2.1	S NA NA *	33+	A Y
			ASME III				
3CHS*HV8468B	LP SI CHG PP SUCT VV WESTINGHOUSE NSSS	W-001 001	AB 00024 DM	Y N 2.1	S NA NA *	33+	A Y
			ASME III				
3CHS*HV8507A	BORIC ACID TK G FEED VV WESTINGHOUSE NSSS	W-001 001	AB 00043 DM	Y N 2.1	S NA NA *	33+	A Y
			ASME III				
3CHS*HV8507B	BORIC ACID TK G FEED VV WESTINGHOUSE NSSS	W-001 001	AB 00043 DM	Y N 2.1	S NA NA *	33+	A Y
			ASME III				
3CHS*HV8511A	MOTOR VALVE WESTINGHOUSE NSSS	W-001 001	AB 00024 DM	Y N 2.1	S NA NA *	33+	A Y
	LIMITORQUE/NAHCO	SHB 00/ EA-170	ASME III				

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV HTG	SEIS	OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT SQ INS
3CHS#MV8511B	MOTOR VALVE WESTINGHOUSE NSSS	H-001 001	AB 00024 DH	Y	N 2.1	S NA NA *	33+
	LIMITORQUE/NAMCO	SHB 00/ EA-170			ASME III		A Y
3CHS#MV8512A	MOTOR OPERATED VALVE WESTINGHOUSE NSSS	H-001 001	AB 00024 DH	Y	N 2.1	S NA NA *	33+
	LIMITORQUE/NAMCO	SHB 00/ EA-170			ASME III		A Y
3CHS#MV8512B	MOTOR VALVE WESTINGHOUSE NSSS	H-001 001	AB 00024 DH	Y	N 2.1	S NA NA *	33+
	LIMITORQUE/NAMCO	SHB 00/ EA-170			ASME III		A Y
P - PUMP							
3CHS#P2A	BORIC ACID XFER PUMP A	H-001 001	AB 00043 CF	Y	N 2.1	S NA NA *	33+
					ASME III		A Y
3CHS#P2B	BORIC ACID XFER PUMP B	H-001 001	AB 00043 CF	Y	N 2.1	S NA NA *	33+
					ASME III		A Y
3CHS#P3A	CVCS CHARGING PUMP A WESTINGHOUSE	001	AB 00024 CF	*	N 2.1		D Y
					ASME III		
3CHS#P3B	CVCS CHARGING PUMP B WESTINGHOUSE	001	AB 00024 CF	*	N 2.1		D Y
					ASME III		

REPORT NO. H55QT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
N55S SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3CHS*P3C	CVCS CHARGING PUMP C WESTINGHOUSE	001	AB 00024 CF	* N 2.1			D Y
			ASME III				
3CHS*P6A	CVCS CHG PP OIL PUMP A	001	AB 00024 CF	* N 2.1			D Y
			ASME III				
3CHS*P6B	CVCS CHG PP OIL PUMP B	001	AB 00024 CF	* N 2.1			D Y
			ASME III				
3CHS*P6C	CVCS CHG PP OIL PUMP C	001	AB 00024 CF	* N 2.1			D Y
			ASME III				
3CHS*P7A	TH. REGEN. CH. LR OIL PUMP	001	AB 00043 CF	* N 2.1			D Y
			ASME III				
3CHS*P7B	SHAFT DRIVEN LO PUMP	001	AB 00024 CF	* N 2.1			D Y
			ASME III				
3CHS*P7C	SHAFT DRIVEN LO PUMP	001	AB 00024 CF	* N 2.1			D Y
			ASME III				

RO - ORIFICE, RESTRICTION

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

3CHS#R046C CHG PHP MINI FLOW AB 00024 DH * N 2.1 S NA NA * 33+ D
N-001
001 ASME III

RV - VALVE,RELIEF

3CHS#RV8510A	CHG PMP MINIFLOW RELIEF	AB	DM	Y	N	2.1	S	NA	NA	#	33+	A Y
	W-001											
	001		ASME III									

JCHS#RV6510B	CHG PHP MINIFLOW RELIEF	AB	DM	Y	N	2.1	S	NA	NA	*	33+	A Y
	W-001											
	001		ASME III									

TC - CONTROLLER, TEMPERATURE

3CHS-TC130 LTDN HX OUT CB 00046 EM D
001

TD/ - TEMPERATURE DIGITAL COMPUTER(WESTINGHOUSE)

3CHS*TD/116	1217900VOL CONT TK OUT	CB	DM	D
	001		*	

3CHS*TD/122 1217900EXCESS LTDN HX CB DM D
001

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS			
	DESCRIPTION		BLDG ELEV	HTG	SEIS	OTHER	REQ'D	TEST	TEST	F/B		S/S	VERT	SQ
	VENDOR	QUAL REPORT			RRS REF	DYN.	INPUT							
	VEND MODEL	SPEC			CODES		(ZPA)							
	MANUFACTURER	MANUFAC MODEL												

3CHS*TD/126	1217900REGEN HX CHG		CB	DM										D
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001

3CHS*TD/127	1217900REGEN HX LTDN		CB	DM										D
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001

3CHS*TD/130	1217900LTDN HX OUT		CB	DM										D
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001

3CHS*TD/381	1217900LTDN REHT HX OUT		CB	DM										D
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001

3CHS*TD/389	1217900ION EXCH OUT		CB	DM										D
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001

TK - TANK

3CHS*TK2	VOLUME CONTROL TANK		AB	00043	CF	Y	N	1.0	S	NA	NA	*	33+	A	Y
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WESTINGHOUSE

M-001

001

ASME III

ZI - INDICATOR, POSITION

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CHS - CHEMICAL & VOLUME CONTROL SYSTEM

[illegible]

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JCHS#ZI190A	CHARGING HDR FLOW CNTL	C.	EH	D
	WESTINGHOUSE			
	001		*	

ICHS=ZII90A1 CHG HEADER FLOW CNTL CB 00048 EH D
WESTINGHOUSE
001

3CHS=Z1190B CHG HEADER FLOW CNTL CB 00048 EH D
WESTINGHOUSE
001

3CHS4ZI190B1	CHARGING HDR FLOW CNTL	CB	EM	D
	WESTINGHOUSE			
	001			

ZT - TRANSMITTER, POSITION

3CHS*ZT190A CHG HEADER FLOW CMTL AB 00004 EM D Y

001

3CHS*ZT190B CHG HEADER FLOW CNTL AB 00024 EM D Y

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PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: NESTINGHOUSE

SYSTEM CMS - CONTAINMENT ATMOSPHERE MONITORING-SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SNEC EQUIPMENT

CTV - VALVE, CONTAINMENT, TRIP

3CHS=CTV20	CONT ATH MON SYS CONT ISOL FISHER FQP-22-2 667NS-ES 185 NAMCO LIMIT SWITCH EA 180	AS	DH	Y	N	3G	S	NA	NA	33+	A
3CHS=CTV21	CONT ATH MON SYS CONT ISOL FISHER FQP-22-2 667NS-ES 185 NAMCO LIMIT SWITCH EA 180	AS	DH	Y	N	3G	S	NA	NA	33+	A
3CHS=CTV23	CONT ATH MON SYS CONT ISOL FISHER FQP-22-2 667NS-ES 185 NAMCO LIMIT SWITCH EA 180	AS	DH	Y	N	3G	S	NA	NA	33+	A

SOV - VALVE, SOLENOID

[illegible]

REPORT NO. HSS-471

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPFG, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CMS - CONTAINMENT ATMOSPHERE MONITORING-SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

[illegible]

RE - RADIOACTIVITY ELEMENT, PRIMARY

3CHS=RE22A	CONT STRUCT GAS/PART	RAD MON	AS	00066 CF	Y	N	.41.18		NA	NA	NA	B
	KAMAN SCIENCES	M-84-50/K-84-18										
	HMPG-MF(450967-003)	624					NS(B)-007,REV 0B					
	KAMAN	HMPG-MF					IEEE-323,344					

SCMS#RE22B	CONT STRUCT GAS/PART RAD MON	AB	00066 CF Y N .41.18		NA NA NA	B
	KAMIN SCIENCES	H-84-50/H-84-18	NS(B)-007,REV 0B			
	HQPG-HF(450967-003)	624	IEEE-323,344			
	KAMIN	HQPG-HF				

RV - VALVE,RELIEF

ICMS=RV22A	CONT STRUCT GAS/PART	RAD MON	CB	CM	Y	N	.41.18	D
		K-84-10U(R)		NS(B)-074	REV	1B		
	KMPG-HF	624		IEEE-323,344				

3CMS*RV22B	CONT STRUCT GAS/PART RAD MON	CB	CH	Y	N	.41.18	D
	K-84-18U(R)		NO(B)-074	REV	1B		
	KIPG-HF	624	IEEE-323,344				

SOV - VALVE, SOLENOID

3CNS*SQV22B	CONT STRUCT GAS/PART	RAD MON	AB	CH	Y	N	.41.18	D
		K-84-16U(R)		NS(B)-074	REV	1B		
	KMPG-HF	624		IEEE-323,344				

[illegible]

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CVS - CONTAINMENT VACUUM - SYSTEM

EQUIPMENT ID	DESCRIPTION	VENDOR	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VEND MODEL		SPEC														
	MANUFACTURER		MANUFAC MODEL														

SNEC EQUIPMENT

AOV - VALVE, AIR OPERATED

3CVS*AOV23	CVS EJECT SUCT ISOL			CS	00016	EM	Y	N	3G	S	NA	NA		33+		A
	9210	8K142-01				NA										
		185				ASME III,CL2										

CTV - VALVE, CONTAINMENT, TRIP

3CVS*CTV20A	CVS ISOL			AB	00004	EM	Y	N	3G	S	NA	NA		33+		A
	FISHER	FQP-22-3				NA										
	667NS-ES	185				ASME III,CL2										
	NAMCO LIMIT SWITCH	EA 180														

3CVS*CTV20B	CVS ISOL			AB	00004	EM	Y	N	3G	S	NA	NA		33+		A
	FISHER	FQP-22-3				NA										
	667NS-ES	185				ASME III,CL2										
	NAMCO LIMIT SWITCH	EA 180														

3CVS*CTV21A	CVS ISOL			AB	00004	DM	Y	N	3G	S	NA	NA		33+		A
	FISHER	FQP-22-3				NA										
	667NS-ES	185				ASME III,CL2										
	NAMCO LIMIT SWITCH	EA 180														

3CVS*CTV21B	CVS ISOL			AB	00004	DM	Y	N	3G	S	NA	NA		33+		A
	FISHER	FQP-22-3				NA										
	667NS-ES	185				ASME III,CL2										
	NAMCO LIMIT SWITCH	EA 180														

SOV - VALVE, SOLENOID

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM CVS - CONTAINMENT VACUUM - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	LOADS	QUAL METH --	NAT FREQS ----	STATUS
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3CVS*SOV20A	CVS ISOL FISHER	AQR-67368 185	AB 00004	EM Y N 3G	N	SF SD	35+	A
	ASC0 SOLENOID	NPK 8320		IEEE 323,344,382				
3CVS*SOV20B	CVS ISOL FISHER	AQR-67368 185	AB 00004	EM Y N 3G	N	SF SD	35+	A
	ASC0 SOLENOID	NPK 8320		IEEE 323,344,382				
3CVS*SOV21A	CVS ISOL FISHER	AQR-67368 185	AB 00004	EM Y N 3G	N	SF SD	35+	A
	ASC0 SOLENOID	NPK 8320		IEEE 323,344,382				
3CVS*SOV21B	CVS ISOL FISHER	AQR-67368 185	AB 00004	EM Y N 3G	N	SF SD	35+	A
	ASC0 SOLENOID	NPK 8320		IEEE 323,344,382				

MOV - VALVE, MOTOR OPERATED

3CVS*MOV25	GLOBE VALVE	1030-3 655	CS 00022	DM Y N 3G	S	NA NA	33+	
	5515B-F316M			ASHE III, CL2				

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM DAS - DRAINS (AERATED) REACTOR PLANT - SYSTEM

[illegible]

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SWEC EQUIPMENT

CTV - VALVE, CONTAINMENT, TRIP

3DAS*CTV24	CNTMNT DRNS ISOL FISHER 667NS-ES NAMCO LIMIT SWITCH	FQP-22-3 185 EA 180	CS 00018	DM	Y	N	3G	S	NA	NA	33+	A
3DAS*CTV25	CNTMNT DRNS ISOL FISHER 667NS-ES NAMCO LIMIT SWITCH	FQP-22-3 185 EA 180	AB 00012	DM	Y	N	3G	S	NA	NA	33+	A

SOV - VALVE, SOLENOID

3DASWSOV24-1	CNTMNT DRNS ISOL FISHER	AQR-67368 185	TB	DM	Y	N	3G	N	SF	SD	35+	A
	ASCO SOLENOID	NPK 8320		NA			IEEE 323,344,382					
3DASWSOV25	CNTMNT DRNS ISOL FISHER	AQR-67368 185	AB 00004	DM	Y	N	3G	N	SF	SD	35+	A
	ASCO SOLENOID	NPK 8320		NA			IEEE 323,344,382					

LS - SWITCH, LEVEL

3DASxLS63A	PIPE TUNNEL		AB 00004 CH Y N .18.12 N HF MD 33+ 33+ 33+ A Y
	MAGNETROL	44720-2	NS(B)-007 REV 0B
	FLS-EP/VPX-SIM D4 DC	388	IEEE-323,344
	LEVEL SWITCH	FLS-EP/VPX-SIM D4 DC	

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: KISTINGHOUSE

SYSTEM DAS - DRAINS (AERATED) REACTOR PLANT - SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQS	STATUS
	VENDOR	QUAL REPORT	BIDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
	VEND MODEL	SPEC	RRS REF	DYN. INPUT	FREQ DIR		
	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)			

3DAS*LS63B	PIPE TUNNEL MAGNETROL FLS-EP/VPX-SIMD4DC LEVEL SWITCH	44720-2 388 FLS-EP/VPX-SIM D4 DC	AB 00004	CN Y N	.18.12 N	HF MD	33+ 33+ 33+ A Y
3DAS*LS64A	ECCS PIPE CUBICLE MAGNETROL FLS-EP/VPX-SIMD4DC LWVEL SWITCH	44720-2 388 FLS-EP/VPX-SIMD4 DC	ESB 00004	CN Y N	.20.12 N	HF MD	33+ 33+ 33+ A Y
3DAS*LS64B	ECCS PIPE CUBICLE MAGNETROL FLS-EP/VPX-SIMD4DC LWVEL SWITCH	44720-2 388 FLS-EP/VPX-SIMD4 DC	ESB 00004	CN Y N	.18.12 N	HF MD	33+ 33+ 33+ A Y
3DAS*LS65A	RHR CUBICLE MAGNETROL FLS-EP/VPX-SIMD4DC LEVEL SWITCH	44720-2 388 FLS-EP/VPX-SIMD4 DC	ESB 00004	CN Y N	.20.12 N	HF MD	33+ 33+ 33+ A Y
3DAS*LS65B	RHR CUBICLE MAGNETROL FLS-EP/VPX-SIMD4DC LEVEL SWITCH	44720-2 388 FLS-EP/VPX-SIM D4DC	ESB 00004	CN Y N	.20.12 N	HF MD	33+ 33+ 33+ A Y
3DAS*LS66A	CONT RECIRC CUBICLE MAGNETROL FLS-EP/VPX-SIMD4DC LEVEL SWITCH	44720-2 388 FLS-EP/VPX-SIMD4DC	ESB	CN Y N	.20.12 N	HF MD	33+ 33+ 33+ A Y
3DAS*LS66B	CONT RECIRC CUBICLE FLS-EP/VPX-SIMD4DC	44720-2 388	ESB	CN Y N	.20.12 N	HF MD	33+ 33+ 33+ A Y

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: HESTINGHOUSE

SYSTEM DTM - DRAINS - TURBINE PLANT MISCELLANEOUS

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SWEC EQUIPMENT

AOV - VALVE, AIR OPERATED

3DTH#AOV29A	MN STM LINE DRAIN FISHER NAMCO LIMIT SWITCH	FQP-22-7 185 EA100	MSV 00062	DH NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A	Y
3DTH#AOV29B	MN STM LINE DRAIN FISHER 667NS-DQONS NAMCO LIMIT SWITCH	FQP-22-7 185 EA100	MSV	DH NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A	Y
3DTH#AOV29C	MN STM LINE DRAIN FISHER 667NS-DQONS NAMCO LIMIT SWITCH	FQP-22-7 185 EA100	MSV	DH NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A	Y
3DTH#AOV29D	MN STM LINE DRAIN FISHER 667NS-DQONS NAMCO LIMIT SWITCH	FQP-22-7 185 EA100	MSV	DH NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A	Y
3DTH#AOV61A	MN STM LINE DRAIN FISHER 667NS-DQONS NAMCO LIMIT SWITCH	FQP-22-7 185 EA 100	MSV 00062	DH NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A	Y
3DTH#AOV61B	MN STM LINE DRAIN FISHER 667NS-DQONS NAMCO LIMIT SWITCH	FQP-22-7 185 EA 100	MSV 00062	DH NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A	Y

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM DTH - DRAINS - TURBINE PLANT MISCELLANEOUS

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF CODES	LOADS DYN. INPUT (ZPA)	QUAL METH -- ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3DTH*AOV61C	MN STM LINE DRAIN FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-7 185 EA 180	MSV 00062 DM	Y N 3G	S NA NA	33+	A Y	
3DTH*AOV61D	MN STM LINE DRAIN FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-7 185 EA 180	MSV 00062 DM	Y N 3G	S NA NA	33+	A Y	
3DTH*AOV63A	MN STM LINE DRAIN FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 185 EA 170	ESB 00025 DM	Y N 3G	S NA NA	33+	A Y	
3DTH*AOV63B	MN STM LINE DRAIN FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 185 EA 170	ESB 00025 DM	Y N 3G	S NA NA	33+	A Y	
3DTH*AOV63D	MN STM LINE DRAIN FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 185 EA 170	ESB 00025 DM	Y N 3G	S NA NA	33+	A Y	
3DTH*AOV64A	MN STM LINE DRAIN FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 185 EA 170	ESB 00025 DM	Y N 3G	S NA NA	33+	A Y	
3DTH*AOV64B	MN STM LINE DRAIN FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 185 EA 170	ESB 00025 DM	Y N 3G	S NA NA	33+	A Y	

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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM DTM - DRAINS - TURBINE PLANT MISCELLANEOUS

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	NAT FREQS VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR	
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

1. 本行在 2019 年 12 月 31 日及 2018 年 12 月 31 日，均无因向其他金融机构提供担保而形成的或有负债。

30TH#AOV64D	NN STM LINE DRAIN		ESB 00025 DM	Y	N	3G	S	NA	NA	33+	A Y
	FISHER	FQP-22-6		NA							
	667NS-DBQNS	185		ASHE III,CL2							
	NAMCO LIMIT SWITCH	EA 170									

SOV - VALVE, SOLENOID

3DTH*SOV29A	MN STH LINE DRAIN		MSV 00062 EM	Y	N	3G	N	SF	SD	35+	A Y
	FISHER	AQR-67368		NA							
		185		IEEE 323,344,382							
	ASCO SOLENOID	NPK 8320									

30TH*SOV29B	MN STM LINE DRAIN FISHER	AQR-67368 185	MSV	EM Y N 3G N SF SD	35+	A Y
	ASCO SOLENOID	NPK 8320		IEEE 323,344,382		

3DTH#SOV29C	MN STM LINE DRAIN FISHER	AQR-67638 185	TB	EM Y N 3G N SF SD *	35+	A Y
	ASCO SOLENOID	NPK 8320		IEEE 323,344,382		

3DTH*SOV29D	MN STH LINE DRAIN FISHER	AQR-67638 185	MSV	EM Y N 3G N SF SD *	35+	A Y
	ASCO SOLENOID	NPK 8320		IEEE 323,344,362		

3DTH#SOV61A	MN STM LINE DRAIN FISHER	AQR-67638 185	HSV 00062 EM Y N 3G N SF SD * 35+ A Y
	ASCO SOLENOID	NPK 8320	IEEE 323,344,382

[illegible]

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM DTM - DRAINS - TURBINE PLANT MISCELLANEOUS

[illegible]

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM: DTM - DRAINS - TURBINE PLANT MISCELLANEOUS

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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3DTH*SOV64D	MN STM LINE DRAIN FISHER	AQR-67638 185	ESB 00025 EM Y N 3G N SF SD * 35+	
	ASCO SOLENOID	NPK 8320	NA IEEE 323,344,382	

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

[illegible]

EFV - VALVE, EXCESS FLOW

3EGA*EFV29A START AIR EXCESS FLOW EGE 00024 D Y

241 TECH.REQUIREMENTS-EXHIBIT II, DTD 10/15/75

3EGA*EFV29B	START AIR EXCESS FLOW	EGE 00024	D Y
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241

3EGA*FFV35A1	COMP INST EXCESS AIR	EGE 00027	D	Y
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241

3EGA*FFV35A2	COMP INST EXCESS AIR	EGE 00027	D Y
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241

3EGA*EFV35B1 COMP INST EXCESS AIR EGE 00027 D Y

241

3EGA*EFV35B2 COMP INST EXCESS AIR EGE 00027 D Y

241

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PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGA - GENERATOR,STANDBY-AIR COMPR-DIESEL STARTING AIR

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	D/N INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

EJ - JOINT, EXPANSION

3EGA*EJ2A EXPANSION JOINT EGE 00027 D Y

3EGA*EJ2B EXPANSION JOINT EGE 00027 D Y

FLT - FILTER

3EGA#FLT1B FILTER EGE 00027 D Y

241

3EGA*FLT2B FILTER EGE 00027 D Y

241

3EGA*FLT3B FILTER EGE 00027 D Y

3EGA*FLT3D FILTER EGE 00027 D Y

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGA - GENERATOR,STANDBY-AIR COMPR-DIESEL STARTING AIR

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3EGA-FLT1A	GLOBE VLV		EGE 00027				D Y
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241

3EGA-FLT2A	FILTER		EGE 00027				D Y
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241

3EGA-FLT3B	FILTER		EGE				D Y
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241

3EGA-FLT3C	FILTER		EGE 00027				D Y
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241

RV - VALVE,RELIEF

3EGA*RV20A1	AIR COMPRESSOR RLF		EGE 00028				D Y
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241

3EGA*RV20A2	AIR COMPRESSOR RLF		EGE 00028				D Y
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241

3EGA*RV20B1	AIR COMPRESSOR		EGE 00028				D Y
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REPORT NO. MSSQT1

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PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGA - GENERATOR,STANDBY-AIR COMPR-DIESEL STARTING AIR

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC			RRS	REF	DYN.	INPUT		FREQ	DIR					
	VEND MODEL	MANUFACTURER			CODES			(ZPA)								

3EGA*RV20B2	AIR COMPRESSOR		EGE	00028												D Y
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241

3EGA*RV24A1	AIR RECEIVER TK		EGE	00035												D Y
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241

3EGA*RV24A2	AIR RECEIVER TK		EGE	00036												D Y
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241

3EGA*RV24B1	AIR RECEIVER TK		EGE	00036												D Y
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241

3EGA*RV24B2	AIR RECEIVER TK		EGE	00036												D Y
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241

SOV - VALVE,SOLENOID

3EGA*SOV25A	SHUTDOWN		EGE	00037												D Y
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241

3EGA*SOV25B	SHUTDOWN		EGE	00037												D Y
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SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGA - GENERATOR,STANDBY-AIR COMPR-DIESEL STARTING AIR

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS OTHER	REQ'D	ANLYS TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	SPEC			RRS REF	DYN. INPUT							
	VEND MODEL	MANUFACTURER			CODES	(ZPA)							

3EGA*SOV26A	AIR START		EGE	00037								D	Y
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241

3EGA*SOV26B	AIR START		EGE	00037								D	Y
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241

3EGA*SOV27A	AIR START		EGE	00037								D	Y
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241

3EGA*SOV27B	AIR START		EGE	00037								D	Y
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241

STR - STRAINER,PERMANENT

3EGA*STR1A	STRATNER		EGE	00027								D	Y
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241

3EGA*STR1B	STRAINER		EGE	00027								D	Y
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241

3EGA*STR2B	STRAINER		EGE	00027								D	Y
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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSIS SUPPLIER: WESTINGHOUSE

SYSTEM EGA - GENERATOR,STANDBY-AIR COMPR-DIESEL STARTING AIR

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS				
	DESCRIPTION		BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST		F/B	S/S	VERT	SQ
	VENDOR	QUAL REPORT			RRS REF	DYN.	INPUT								
	VEND MODEL	SPEC			CODES		(ZPA)								
	MANUFACTURER	MANUFAC MODEL													

3EGA-STR1A	STRAINER		EGE 00027												D Y
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241

3EGA-STR1B	STRAINER		EGE 00027												D Y
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241

TK - TANK

3EGA*TK1A	SUPPLIED BY VENDOR		EGE 00027												D Y
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241

3EGA*TK1B	TANK		EGE 00027												D Y
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241

3EGA*TK2A	SUPPLIED BY VENDOR		EGE 00027												D Y
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241

3EGA*TK2B	TANK		EGE 00027												D Y
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241

3EGA*TK3A	AIR TANK		EGE 00027												D Y
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UTILITY NUSCO

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGA - GENERATOR,STANDBY-AIR COMPR-DIESEL STARTING AIR

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR				RRS	REF		DYN.	INPUT		FREQ	DIR				
	VEND MODEL	SPEC			CODES				(ZPA)							
	MANUFACTURER	MANUFAC MODEL														

3EGA*TKJB AIR TANK EGE 00027 D Y

REPORT NO. MSSQT1

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
MSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGD - GENERATOR,STANDBY-COMBUSTION AIR DAMPER CONTROL

EQUIPMENT ID	DESCRIPTION	VENDOR	VEND MODEL	MANUFACTURER	QUAL REPORT	SPEC	MANUFAC MODEL	BLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS

SHEC EQUIPMENT

P - PUMP

3EGD*P1A	EMER GEN CRANKCA VAC PP							EGE 00035													D Y
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241

3EGD*P1B	EMER GEN CRANKCA VAC P							EGE 00035													D Y
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241

SIL - SILENCER (INLET OR EXHAUST)

3EGD*SIL1A	SILENCER							EGE 00042													D Y
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241

3EGD*SIL1B	SILENCER							EGE 00042													D Y
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241

3EGD*SIL2A	SILENCER							EGE 00042													D Y
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGD - GENERATOR,STANDBY-COMBUSTION AIR DAMPER CONTROL

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

[illegible]

3EGD*SIL2B SILENCER EGE 00042 D Y

3FEGD*SIL3A SILENCER EGE 00042 D Y

35GD*SIL3B SILENCER EGE 000'2 D Y

SP - SEPARATOR

3EGD*SP1A SEPARATOR EGE 00035 D Y

3EGD*SP1B SEPARATOR EGE 00035 D Y

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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGF - GENERATOR,STANDBY-FUEL SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
VENDOR	QUAL REPORT				RRS	REF	DYN.	INPUT								
VEND MODEL	SPEC				CCODES											
MANUFACTURER	MANUFAC MODEL							(ZPA)								

SNEC EQUIPMENT

TKS - SWITCH, TRANSFER

3EGF*TRSFN1C
2404.01
IEEE 344

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3EGF*TRSFN1D                                N      MF      MD      12.6  5.9  40+  D
2404.01
IEEE 344

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TK - TANK

3EGF*TK2A	EMER GEN F O DAY TANKS	EGE 00037 CF	Y	N	.32.15	S	SF	SD	33+	33+	33+	A	Y
	P X ENG	12179-IA-187	NS(B)-069-REV.0B										
	473-6	022	ASME SECT III,CL3										

3EGF*TK2B	EMER GEN F O DAY TANKS	EGE 00037 CF	Y	N	.32.15 S	SF	SD	33+	33+	33+	A Y
	P X ENG	12179-IA-187	NS(B)-069-REV.0B								
	473-6	022	ASME SECT III,CL3								

TK - TANK

3EGF*TK1A	EHER GEN F O STOR TANKS	EGE 00005 CF	Y	Y	.32.15 S	SF	SD	55+	55+	15.7	A Y
	NAT ANNEAL	12179-IA-282			NS(B)-069-REV OB						
	NS-5991-II	031			ASME SECT.III,CL3						

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGF - GENERATOR,STANDBY-FUEL SYSTEM

[illegible]

P - PUMP

3EGF*P1A	EMER.GEN.FUEL OIL XFER.P GOULDS PUMPS ME 223 VIT3X7 ALC-1 043 WESTINGHOUSE 3 H.P.	EGE 00016 EM Y N .32.15 S NA NA NS(B)-069 REV 0B ASME III,CL3	2.9	122	A	Y
3EGF*P1B	EMER.GEN.FUEL OIL XFER.P GOULD PUMPS ME 223 VIT3X7 ALC-1 043 WESTINGHOUSE 3 H.P.	EGE 00016 EM Y N .32.15 S NA NA NS(B)-069 REV 0B ASME III,CL3	2.9	122	A	Y
3EGF*P1C	EMER.GEN.FUEL OIL XFER.P GOULDS PUMPS ME 223 VIT3X7 ALC-1 043 WESTINGHOUSE 3 H.P.	EGE 00016 EM Y N .32.15 S NA NA NS(B)-069 REV0B ASME III,CL3	2.9	122	A	Y
3EGF*P1D	EMER.GEN.FUEL OIL XFER.P GOULDS PUMPS ME 223 VIT3X7 ALC-1 043 WESTINGHOUSE 3 H.P.	EGE 00016 EM Y N .32.15 S NA NA NS(B)-069 REV0B ASME III,CL3	2.9	122	A	Y

P - PUMP

3EGF*P2A	EMER GEN AUX FUEL OIL PP	EG	D
	COLT		
	241		

3EGF*LIS27A	FUEL OIL DAY TR LVL		EGE 00040 RH Y N .55.15 N MF MD	42 A Y
	ITT BARTON	R3-580A-9	NS(B)-069 REV 0B	
	199/580A-1	377	IEEE-323,344	
	ITT BARTON	199/581A-1		

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGF - GENERATOR,STANDBY-FUEL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT ----- QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN. INPUT (ZPA)	ANLYS TEST TEST	F/B S/S VERT	NAT FREQS ----	STATUS

3EGF*LIS27B	FUEL OIL DAY TK LVL		EGE 00040 RH	Y N .55.15	N MF MD		42 A Y		
	ITT BARTON	R3-580A-9		NS(B)-069 REV 0B					
	199/580A-1	377		IEEE-323,344					
	ITT BARTON	199/581A-1							

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGO - GENERATOR,STANDBY-LUBE OIL SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	MTG	SEIS	OTHER REQ'D	ANLYS TEST TEST FREQ DIR	NAT FREQ S/S VERT	STATUS SQ INS
VENDOR	QUAL REPORT		RRS REF	DYN.	INPUT		F/B S/S VERT	SQ INS
VEND MODEL	SPEC		CODES		(ZPA)			
MANUFACTURER	MANUFAC MODEL							

SNEC EQUIPMENT

FLT - FILTER

3EGO*FLT1A LUBE OIL FILTER EGE 00027 D Y

241

3EGO*FLT1B LUBE OIL FILTER EGE 00027 D Y

241

3EGO*FLT2A LUBE OIL FILTER EGE 00027 D Y

241

3EGO#FLT2B LUBE OIL FILTER EGE 00027 D Y

241

H - HEATER

3E00X11A STANDBY LUBE OIL HEATER EG 00027 D Y

241

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGO - GENERATOR,STANDBY-LUBE OIL SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR
VEND MODEL	SPEC	CODES	(ZPA)	
MANUFACTURER	MANUFAC MODEL			

3EGOMH1B STAND BY LUBE OIL HEATERR EGE D Y

M - MOTOR, ELECTRIC

3EG04H1A LUBE OIL FILTER PLMP MTR EGE 00024 D

241

3E00*H1B LUBE OIL FILTER PUMP MTR EGE 00024 D
291

3EG0MH2A ROCKER ARM PRELUBE PUMP HTR EGE 00024 D

241

3E00*H2B ROCKER ARM PRELUBE PUMP MTR EGE 00024 D

241

P - PUMP

3E00-P1A M-DRV ROCKER ARM PRELUBE EGE 00027 D Y

241

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGO - GENERATOR, STANDBY-LUBE OIL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3EGO-P1B	M-DRV ROCKER ARM PRELUBE		EGE 00027				D Y
	241						

3EGO-P4A	PRE LUBE OIL AND FILTER PUMP		EGE 00027				D Y
	241						

3EGO-P4B	PRE LUBE OIL AND FILTER PUMP		EGE 00027				D Y
	241						

3EGO-P5A	MOIST MRE DETECTOR CIRC. PUMP		EGE 00027				D Y
	241						

3EGO-P5B	MOISTURE DETECTOR CIRC. PUMP		EGE 00027				D Y
	241						

PI - INDICATOR, PRESSURE

3EGO-PI32A	EMERG GEN DIESEL ENG L O HDR		EGE 00025				D
	241						

3EGO-PI32B	EMERG GEN DIESEL ENG L O HDR		EGE 00025				D Y
	241						

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGO - GENERATOR,STANDBY-LUBE OIL SYSTEM

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS OTHER	REQ'D	ANLYS TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR												
	VEND MODEL	SPEC											
	MANUFACTURER	MANUFAC MODEL											

PS - SWITCH,PRESSURE

3EGO*PS23A1	EMER.GEN.DIESEL ENG.L.O.HDR	EGE 00027											D Y
	241												

3EGO*PS23A2	EMER.GEN.DIESEL ENG.L.O.HDR	EGE 00027											D Y
	241												

3EGO*PS23A3	EMER.GEN.DIESEL ENG.L.O.HDR	EGE 00027											D Y
	241												

3EGO*PS23B1	EMER.GEN.DIESEL ENG.L.O.HDR	EGE 00027											D Y
	241												

3EGO*PS23B2	EMER.GEN.DIESEL ENG.L.O.HDR	EGE 00027											D Y
	241												

3EGO*PS23B3	EMER.GEN.DIESEL ENG.L.O.HDR	EGE 00027											D Y
	241												

STR - STRAINER,PERMANENT

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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 1
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSJ SUPPLIER: WESTINGHOUSE

SYSTEM EGO - GENERATOR,STANDBY-LUBE OIL SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH --	NAT FREQS ----	STATUS
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3EGO*STR1A	LUBE OIL STRAINER		EGE 00027				D Y
		241					

3EGO*STR1B	LUBE OIL STRAINER		EGE 00027				D Y
		241					

TV - VALVE,TEMPERATURE

3EGO*TV20A	L O HEAT EXCH TEMP CONT		EGE 00025				D
		241					

3EGO*TV20B	LO HEAT EXCH TEMP CONTROL		EGE 00025				D
		241					

V - VALVES (NON POWERED)

3EGO*V006A	ANGLE VALVE		EGE 00027				D Y
		241					

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGS - GENERATOR,STANDBY-SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST F/B S/S VERT SQ INS
VENDOR	CUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR
VEND MODEL	SPEC	CODES	(ZPA)	
MANUFACTURER	MANUFAC MODEL			

[illegible]

SWEC EQUIPMENT

PNL - PANEL

3EGS#PNLA EMERG GEN CONT PNL-FREESTANDING EGE 00024 N MF MD 12.6 5.9 40+ D Y
 2404.01
 IEEE 344

3EGS*PNLB EMERG GEN CONT PNL-FREESTANDING EGE 00024 N HF MD 12.6 5.9 40+ 0 Y
2404.01
IEEE 344

ADV - VALVE, AIR OPERATED

3EGS#ADV43A ENG JACHT WTR CLR BY-PASS TEMP EGE 00024 D Y

3EGS*ADV43B ENG GEN DIE ENG JAC WTR CLR IN EGE 00024 D Y

E - EXCHANGER, HEAT

3EGS*E1A HEAT EXCHANGER EGE 00024 D Y
COLT
241

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: JONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGS - GENERATOR, STANDBY-SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS		
	DESCRIPTION		BLDG ELEV	MTG	SEIS	OTHER REQ'D	ANLYS TEST	TEST	F/B	S/S		VERT	SQ
	VENDOR	QUAI REPORT	RRS REF	DYN.	INPUT								
	VEND MODEL	SPEC	CODES		(ZPA)								
	MANUFACTURER	MANUFAC MODEL											

3EGS*E1B	HEAT EXCHANGER		EGE 00024									D	Y
	COLT	241											

3EGS*E2A	JACKET WATER HEATER		EGE 00024									D	Y
		241											

3EGS*E2B	JACKET WATER COOLER		EGE 00024									D	Y
		241											

3EGS*E4A	GOVERNOR LUBE OIL COOLER		EGE 00024									D	Y
		241											

3EGS*E4B	GOVERNOR LUBE OIL COOLER		EGE 00024									D	Y
		241											

EG - ENGINE GENERATOR

3EGS*EG-A	+15G-14U EMER GEN A		EGE 00024										
	COLT	2404.01											
		241											

IEEE 344

3EGS*EG-B	+15G-15U EMER GEN B		EGE 00024										
	COLT	2404.01											
		241											

IEEE 344

REPORT NO. H55971

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGS - GENERATOR,STANDBY-SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS

3EGS*EGIAN	EMERG GEN A NEUT CT & LEAD BOX 2404.01 241	EGE 00024	IEEE 344	N MF MD	12.6 5.9 40+	D Y	
3EGS*EGIAPHR	EMERG GEN A PWR LEAD BOX 2404.01 241	EGE 00024	IEEE 344	N MF MD	12.6 5.9 40+	D Y	
3EGS*EGIBN	EMERG GEN B NEUT CT & LEAD BOX 2404.01 241	EGE 00024	IEEE 344	N MF MD	12.6 5.9 40+	D Y	
3EGS*EGIBPHR	EMERG GEN B PWR LEAD BOX 2404.01 241	EGE 00024	IEEE 344	N MF MD	12.6 5.9 40+	D Y	
H - HEATER							
3EGS*H1A	JACKET WATER HEATER COLT 241	EGE 00024				D Y	
3EGS*H1B	JACKET WATER HEATER COLT 241	EGE 00024				D Y	
3EGS*H2A	GENERATOR SPACE HEATER COLT 241	EGE 00027				D	

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGS - GENERATOR,STANDBY-SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

.....

3EGS*H2B GENERATOR SPACE HEATER EGE 00027 D
COLT
241

HOSE - HOSE, ALL TYPES

3EGS*HOSE1A HOSE EGE D Y

3EGS*HOSE1B HOSE EGE D Y

3CGS*HOSE2A HOSE EGE D Y

3EGS*HOSE2B HOSE EGE D Y

3EGS*HOSE3A HOSE EGE D Y

3EGS*HOSE3B HOSE EGE D Y

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGS - GENERATOR,STANDBY-SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS			
	DESCRIPTION		BLDG ELEV	MTG	SEIS OTHER	REQ'D	ANLYS TEST	TEST	F/B	S/S		VERT	SQ	INS
	VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR									
	VEND MODEL	SPEC	CODES	(ZPA)										
MANUFACTURER		MANUFAC MODEL												

3EGS*HOSE4A	HOSE		EGE									D Y
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241

3EGS*HOSE4B	HOSE		EGE									D Y
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241

3EGS*HOSE5A	HOSE		EGE									D Y
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241

3EGS*HOSE5B	HOSE		EGE									D Y
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241

LS - SWITCH,LEVEL

3EGS*LS34A	EHR GEN DSL FRSH NTR EXPN TK		EGE 00041									D Y
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241

3EGS*LS34B	EHR GEN DSL FRSH NTR EXPN TK		EGE 00041									D Y
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241

M - MOTOR,ELECTRIC

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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGS - GENERATOR,STANDBY-SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS

3EGS*M1A	STANDBY JACKET CLNT HTR COLT	241	EGE 00027				D
3EGS*M1B	STANDBY JACKET CLNT HTR COLT	241	EGE 00027				D
3EGS*M2A	BARRING DEVICE MTR COLT	241	EGE 00027				D
3EGS*M2B	BARRING DEVICE MTR COLT	241	EGE 00027				D
P - PUMP							
3EGS*P1A	ENGINE DRIVEN PUMP COLT	241	EGE 00024				D Y
3EGS*P1B	ENGINE DRIVEN PUMP COLT	241	EGE 00024				D Y
3EGS*P2A	JACKET WATER PUMP COLT	241	EGE 00024				D Y

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NOSS SUPPLIER: WESTINGHOUSE

SYSTEM EGS - GENERATOR,STANDBY-SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR
VEND MODEL	SPEC	CODES	(ZPA)	
MANUFACTURER	MANUFAC MODEL			

3EGS*P3A INTERCOOLER WATER PUMP EGE 00024 D Y

JEGS-P2B JACKET WATER PUMP EGE 00024 D Y

PNL - PANEL

3EGS-PNL1A EGEN DIST PNL (SKID MTD) EGE 00024 D Y

3EGS-PNL1B EGEN DIST PNL (SKID MTD) EGE 00024 D Y

RO - ORIFICE, RESTRICTION

3EGS-RO33A EHR GEN DSL ENG JKT WTR CLR B EGE 00024 D

3EGS-RO33B EMB GEN DSL ENG JKT MTR CLR B EGE 00024 0

REPORT NO. MSSQT1

PLAN: NAME HILLSTONE UNIT 3
UTILITY NUSCO

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PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGS - GENERATOR,STANDBY-SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS					
	DESCRIPTION		BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT				RRS	REF	DYN.	INPUT		FREQ	DIR				
	VEND MODEL	SPEC				CODES			(ZPA)							
	MANUFACTURER	MANUFAC MODEL														

3EGS-RO38B	ALTERNATOR BRG CLG WTR OUTLET		EGE	00024												D
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241

3EGS-RO39A	INTER COOLER WTR PMP DISCH		EGE	00024												D
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241

3EGS-RO39B	INTER COOLER WTR PMP DISCH		EGE	00025												D
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241

3EGS-RO40A	EMR GN DSL ENG AR CL WT HX BY		EGE	00024												D
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241

3EGS-RO40B	EMR GN DSL ENG AR CL WT HX BY		EGE	00024												D
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241

STR - STRAINER,PERMANENT

3EGS*SRTRBOXA	STARTER BOX ASSY		EGE	00024												D Y
	COLT															

241

3EGS*SRTRBOXB	STARTER BOX ASSY		EGE	00024												D Y
	COLT															

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DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGS - GENERATOR,STANDBY-SYSTEM

[illegible]

TCV - VALVE, CONTROL, TEMPERATURE, SELF ACTUATED

3E6S*TCV44A ENG AIR CLR MTR HT EXC EGE 00025 D

3EGS*TCV44B ENG AIR CLR WTR HT EXC EGE 00025 D

3E6S-TCV44B ENG GN DSL ENG ARCL WT HX BY EGE 00024 D Y

TK - TANK

3EGS*TK1A EXPANSION TANK EGE 00041 D Y
COLT
241

TS - SWITCH, TEMPERATURE

3EGS-TS28A JACKET DIS ENG EGE 00027 291

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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EGS - GENERATOR,STANDBY-SYSTEM

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC	RRS REF	DYN. INPUT	FREQ DIR						
	VEND MODEL		CODES	(ZPA)							
	MANUFACTURER	MANUFAC MODEL									

3EGS-TS28B JACKET WTR DISCH FROM ENGINE EGE 00027

D

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TT - TRANSMITTER,TEMPERATURE

3EGS-TT43A ENG ENG JAC WTR CLR-INLET EGE 00025

D Y

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3EGS-TT43B ENG ENG JAC WTR CLR-INLET EGE 00025

D Y

241

REPORT NO. HSSOT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EHS - MOTOR CONTROL CENTER-STANDBY-SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	HTG	SEIS	OTHER REQ'D	DYN.	INPUT	FREQ DIR
VENDOR	QUAL REPORT			RRS REF				
VEND MODEL	SPEC			CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL							

SNEC EQUIPMENT

HCC - MOTOR CONTROL CENTER

3EHS*MCC1A1	480V MCC1A1 (EMERG) EMER GEN GOULD INC SC-391,REV.2 244 GOULD 480V MCC	EGE 00024 CF Y N .32.15 N MF MD 5.6 5.2 10.0 A Y
		NS(B)-069,REV.0B IEEE 344
3EHS*MCC1A2	480V MCC 1A2 (EMERG) CONT BLDG GOULD INC SC-391,REV.2 244 GOULD 480V MCC	CB 00004 CF Y N .25.15 N MF MD 5.6 5.2 10.0 A Y
		NS(B)-017,REV.1B IEEE 344
3EHS*MCC1A4	480V MCC 1A4 (EMERG) SAFE AREA GOULD INC SC-391,REV.2 244 GOULD 480V MCC	FSB 00036 CF Y N .32.13 N MF MD 5.6 5.2 10.0 A Y
		NS(B)-010,REV.0B IEEE 344
3EHS*MCC1A5	480V MCC 1A5 (EMERG) CW PP HSE GOULD INC SC-391,REV.2 244 GOULD 480V MCC	CSP 00014 CF Y N .40.16 N MF MD 5.6 5.2 10.0 A Y
		NS(B)-044,REV.2B IEEE 344
3EHS*MCC1B1	480V MCC1B1 (EMERG) EMER GEN GOULD INC SC-391,REV.2 244 GOULD 480V MCC	EGE 00024 CF Y N .32.15 N MF MD 5.6 5.2 10.0 A Y
		NS(B)-069,REV.0B IEEE 344
3EHS*MCC1B2	480V MCC 1B2 (EMERG) CONT BLDG GOULD INC SC-391,REV.2 244 GOULD 480V MCC	CB 00004 CF Y N .25.15 N MF MD 5.6 5.2 10.0 A Y
		NS(B)-017,REV.1B IEEE 344

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EHS - MOTOR CONTROL CENTER-STANDBY-SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3EHS*MCC1B3	480V MCC 1B3 (EMERG) GOULD INC GOULD	SAFE AREA SC-391,REV.2 244 480V MCC	ESB 00036 CF	Y N .32.13 N	MF MD 5.6 5.2 10.0	A Y	
3EHS*MCC1B4	480V MCC 1B4 (EMERG) GOULD INC GOULD	SAFE AREA SC-391,REV.2 244 480V MCC	ESB 00036 CF	Y N .32.13 N	MF MD 5.6 5.2 10.0	A Y	
3EHS*MCC1B5	480V MCC 1B5 (EMERG) GOULD INC GOULD	CW PP HSE SC-391,REV.2 244 480V MCC	CSP 00014 CF	Y N .40.16 N	MF MD 5.6 5.2 10.0	A Y	
3EHS*MCC3A1	480V MCC 3A1 (EMERG) GOULD INC GOULD	AUX BLDG SC-391,REV.2 244 480V MCC	MRC 00024 CF	Y N .27.16 N	MF MD 5.6 5.2 10.0	A Y	
3EHS*MCC3A2	480V MCC 3A2 (EMERG) GOULD INC GOULD	ROD CONT SC-391,REV 2 244 480V MCC	MRC 00024 CF	Y N .25.15		A Y	
3EHS*MCC3B1	480V MCC 3B1 (EMERG) GOULD INC GOULD	AUX BLDG SC-391,REV.2 244 480V MCC	MRC 00024 CF	Y N .27.16 N	MF MD 5.6 5.2 10.0	A Y	
3EHS*MCC3B2	480V MCC 3B2 (EMERG) GOULD INC GOULD	ROD CONT SC-391,REV.2 244 480V MCC	MRC 00024 CF	Y N .27.16 N	MF MD 5.6 5.2 10.0	A Y	

REPORT NO. HSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WELSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EJS - UNIT SUBSTATION-STANDBY-SYSTEM

[illegible]

SWEC EQUIPMENT

US - UNIT SUBSTATION

3EJS#US-1A	480V EMERG UNIT SUBSTA BUS 32T CB 00004 CF Y N .25.15 N MF MD NA NA NA A Y GOULD-BROWN BOVERI 33-49988-SS-1 NS(B)-017,REV.1B 243 IEEE 344 BROWN BOVERI 480V LOAD CENTER
3EJS#US-1B	480V EMERG UNIT SUBSTA BUS 32U CB 00004 CF Y N .25.15 N MF MD NA NA NA A Y GOULD-BROWN BOVERI 33-49988-SS-1 NS(B)-017,REV.1B 243 IEEE 344 BROWN BOVERI 480V LOAD CENTER
3EJS#US-2A	480V EMERG UNIT SUBSTA BUS 32S MRC 0024 CF Y N .27.16 N MF MD NA NA NA A Y GOULD-BROWN BOVERI 33-49988-SS-1 NS(B)-007,REV.0B 243 IEEE 344 BROWN BOVERI 480V LOAD CENTER
3EJS#US-2B	480V EMERG UNIT SUBSTA BUS 32V MRC 0024 CF Y N .27.16 N MF MD NA NA NA A Y GOULD-BROWN BOVERI 33-49988-SS-1 NS(B)-007,REV.0B 243 IEEE 344 BROWN BOVERI 480V LOAD CENTER
3EJS#US-3A	480V EMERG UNIT SUBSTA BUS 32R MRC 0024 CF Y N .27.16 N MF MD NA NA NA A Y GOULD-BROWN BOVERI 33-49988-SS-1 NS(B)-007,REV.0B 243 IEEE 344 BROWN BOVERI 480V LOAD CENTER
3EJS#US-3B	480V EMERG UNIT SUBSTA BUS 32W MRC 0024 CF Y N .27.16 N MF MD NA NA NA A Y GOULD-BROWN BOVERI 33-49988-SS-1 NS(B)-007,REV.0B 243 IEEE 344 BROWN BOVERI 480V LOAD CENTER

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EJS .. UNIT SUBSTATION-STANDBY-SYSTEM

[illegible]

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3EJSWUS-4A	480V EMERG UNIT SUBSTA BUS 32Y	MRC 00024 CF Y N .27.16 N MF MD 5.5 8.5 NA A Y
	GOULD-BROWN BOVERI 33-49988-SS,ADD.1	NS(B)-007,REV.0B
	243	IEEE 344
	BROWN BOVERI 480V LOAD CENTER	
3EJSWUS-4B	480V EMERG UNIT SUBSTA BUS 32X	MRC 00024 CF Y N .27.16 N MF MD 5.5 8.5 NA A Y
	GOULD BROWN BOVERI 33-49988-SS,ADD.1	NS(B)-007,REV.0B
	243	IEEE 344
	BROWN BOVERI 480 LOAD CENTER	

X - TRANSFORMER

3EJS-X-1A	1000 KVA XFMR BROWN BOVERI	33-49988-SS-1 243 VU-9	MRC 00004 CF Y N .25.15 N	MF	MD	NA	NA	NA	A	Y
	BROWN BOVERI		NS(B)-017,REV.1B IEEE 344							
3EJS-X-1B	1000 KVA XFMR BROWN BOVERI	33-49988-SS-1 243 VU-9	MRC 00004 CF Y N .25.15 N	MF	MD	NA	NA	NA	A	Y
	BROWN BOVERI		NS(B)-017,REV.1B IEEE 344							
3EJS-X-2A	1000 KVA XFMR BROWN BOVERI	33-49988-SS-1 243 VU-9	MRC 00024 CF Y N .27.16 N	MF	MD	NA	NA	NA	A	
	BROWN BOVERI		NS(B)-007,REV.0B IEEE 344							
3EJS-X-2B	1000 KVA XFMR BROWN BOVERI	33-49988-SS-1 243 VU-9	MRC 00024 CF Y N .27.16 N	MF	MD	NA	NA	NA	A	
	BROWN BOVERI		NS(B)-007,REV.0B IEEE 344							
3EJS-X-3A	1000 KVA XFMR BROWN BOVERI	33-49988-SS-1 243 VU-9	MRC 00024 CF Y N .27.16 N	MF	MD	NA	NA	NA	A	Y
	BROWN BOVERI		NS(B)-007,REV.0B IEEE 344							

REPORT NO. HSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM EJS - UNIT SUBSTATION-STANDBY-SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D ANLYS TEST TEST F/B S/S VERT SQ INS	LOADS ----- DYN. INPUT (ZPA)	QUAL METH -- FREQ DIR	NAT FREQS ---- F/B S/S VERT	STATUS
3EJSX-3B	1000 KVA XFMR BROWN BOVERI	MRC 00024 CF Y N .27.16 N HF MD NA NA NA A Y	33-49988-SS-1 243 VU-9	NS(B)-007,REV.0B IEEE 344				
3EJSX-4A	1000 KVA XFMR BROWN BOVERI	33-49988-SS,ADD.1 243 VU-9	00024 CF Y N .27.16 N HF MD 5.5 0.5 NA A	NS(B)-007,REV.0B IEEE 344				
3EJSX-4B	1000 KVA XFMR BROWN BOVERI	33-49988-SS,ADD.1 243 VU-9	00024 CF Y N .27.16 N HF MD 5.5 0.5 NA A	NS(B)-007,REV.0B IEEE 344				

3ENS*BD-C	4.16KV BUS DUCT C	CH	Y	N	.25.15	SD	NA	NA	59	A
	G.E. CO.	76SED4	NS(B)-017 REV.1B							
	34A	010	IEEE 344							
	G.E.	4160V								

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM ENS - SHGR,STANDBY,4160V-SYSTEM

[illegible]

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SENS=BD-D	4.16KV BUS DUCT D	CH	Y	N	.25.15	SD	NA	NA	59	A
	G.E.CO.	76SED4	NS(B)-017 REV.1B							
	34B	010	IEEE 344							
	G.E.	4160V								

RES - RESISTOR

3ENS=RES-GNA	4.16KV NEUTRAL GND RESISTOR A	EGE 00024 CH Y N .32.15 N MF MD 14 6 22 A Y
	GE.CO.	73LSP-1 NS(B)-017 REV.1B
	34C	010 IEEE 344
	G.E.	4160V

SENS-RES-GNB	4.16KV NEUTRAL GND RESISTOR B	EGE 00024 CM	Y	N	.32.15	N	MF	MD	14	6	22	A	Y
	GE.CO.	73LSP-1	NS(B)-017 REV.1B										
	340	010	IEEE 344										
	G.E.	4160V											

SWG - SWITCHGEAR

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SENS=SWG-A      4.16KV EMERGENCY SWGR BUS 34C      CB 00004 CM   Y    N .25.15 N    HF MD    6.5  4.8  17.2  A Y
GE.CO.          43581-1                          NS(B)-069 REV.0B
34C             010                              IEEE 344
G.E.           4160V

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JENS*SHG-B	4.16KV EMERGENCY SHGR BUS 340	CB 00004 CH	Y	N	.25.15	N	HF	MD	6.5	4.8	17.2	A	Y
	GE.CO.	43581-1	NS(B)-069 REV.0B										
	340	010	IEEE 344										
	G.E.	4160V											

TS - TEMPERATURE BISTABLES

SENS#TB-A	4.16KV EMERGENCY SHGR A SUP TB	CB	0004 CH	Y	N	.25.15 SD	NA	NA	59	A Y
	GE.CO.	76SED4	NS(B)-069 REV.0B							
	34C	010	IEEE 344							
	G.E.	4160V								

REPORT NO. NSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM ENS - SHGR,STANDBY,4160V-SYSTEM

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR														
	VEND MODEL	SPEC													
	MANUFACTURER	MANUFAC MODEL													

3ENS*TB-B	4.16KV EMERGENCY SHGR B SUP TB		CB	00004	CH	Y	N	.25.15	SD	NA	NA	59		A	Y
	GE.CO.	76SED4													
	340	010													
	G.E.	4160V													

NS(B)-069 REV.0B
IEEE 344

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FPW - FIRE PROTECTION - WATER

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SNEC EQUIPMENT

CTV - VALVE, CONTAINMENT, TRIP

3FPW#CTV48	CONT FIRE PROT WTR ISOL	AB	00022	DM	Y	N	JG	S	NA	NA	33+	A
	FISHER		9H4-87-01				NA					
	9210		185				ASME III,CL2					
	NAMCO LIMIT SWITCH		EA 180									
3FPW#CTV49	CONT FIRE PROT WTR ISOL	CS	00021	DM	Y	N	3G	S	NA	NA	33+	A
	FISHER		9H487-02				NA					
	9210		185				ASME III,CL2					
	NAMCO LIMIT SWITCH		EA 180									

SOV - VALVE, SOLENOID

3FPN#SOV48	CONT FIRE PROT WTR ISOL FISHER	AQR-67368 185	AB 00022 EM Y N 3G	N SF SD	35+	A
	ASCO SOLENOID	NPK 8320	IEEE 323,344,382			
3FPN#SOV49	CONT FIRE PROT WTR ISOL FISHER	AQR-67368 185	CS 00021 EM Y N 3G	N SF SD	35+	A
	ASCO SOLENOID	NPK 8320	IEEE 323,344,382			

DOCKET NO. 50-423

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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SWEC EQUIPMENT

TK - TANK

3FNA*TK1	DEMIN WATER STOR TANK	OY	00024	CF	N	Y	.34.24	S	SF	MD	NA	NA	NA	A
	RICHMOND	12179-IE-526			FSAR	FIG.3.7B-1&2								
	D74413-14	023			ASME	SECT III,CL3								

P - PUMP

3FKA=PIA	MTR.DRVN.SG AUX.FOPP	ESB 00021 DH	Y	N	.32.13 S*	NA	NA	20+	20+	20+	A Y
	GE.CO.	ME 590			NS(B)-010 REV 08						
	MSD	041			ASME III,CL3						
	G.E.	HORIZONTAL 8210S									

3FNA*P1B	MTR.DRVN.SG AUX.FDPP	ESB 00021 DM	Y	N	.32.13	S*	NA	NA	20+	20+	20+	A	Y
	GE.CO.	ME 590	NS(B)-010 REV 08										
	MSD	041	ASME III,CL3										
	G.E.	HORIZONTAL 8210S											

3FNAW2	TURB DRIVEN AUX FD WTR PUMP	ESB 00021 DM	Y	N	.32.13	SD	NA	NA	20+	A
	BINGHAM-WILLA	ME 591			NS(B)-010	REV 06				
	MSD-D	041			ASME III,CL3					

T - TURBINE

3FNA*TL	SG AUX FW PUMP TURB	20,030	ESB 00024 DM Y N .32.13 S NA NA	100	A
	TYPE GS	041	NS(B)-010 REV 0B		
			API STD-612		

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS			STATUS		
	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S		VERT	SQ
	VENDOR	SPEC	RRS REF	DYN.	INPUT										
	VEND MODEL	MANUFACTURER	CODES		(ZPA)										

MOV - VALVE, MOTOR OPERATED

3FNA*MOV35A	SG AUX FDWTR ISOL HALNORTH NS247 PSB LIMITORQUE OPERATOR	229 REV 1 161 SHB-000-	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A	Y
3FNA*MOV35B	SG AUX FDWTR ISOL HALNORTH NS247 PSB LIMITORQUE OPERATOR	229 REV 1 161 SHB-000-	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A	Y
3FNA*MOV35C	SG AUX FDWTR ISOL HALNORTH NS247 PSB LIMITORQUE OPERATOR	229 REV 1 161 SHB-000-	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A	Y
3FNA*MOV35D	SG AUX FDWTR ISOL HALNORTH NS247 PSB LIMITORQUE OPERATOR	229 REV 1 161 SHB-000-	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A	Y

AOV - VALVE, AIR OPERATED

3FNA*AOV23A	SG AUX FDWTR PMP ALT SUCT FISHER 9210 NAHCO LIMIT SWITCH	8K025-01 185 EA 170	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A	Y
3FNA*AOV23B	SG AUX FDWTR PMP ALT SUCT FISHER 9210 NAHCO LIMIT SWITCH	8K025-02 185 EA 170	ESB 00021	DM	Y	N	3G	S	NA	NA	35+	A	Y

REPORT NO. MSSQT1

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UTILITY MUSCO

DOCKET NO. 50-423

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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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3FNA=AOV25	DNST HTR CIRC LINE ISOL	OY 00026 DM Y N 3G S NA NA	33+	A Y
	FISHER FQP-22-4	NA		
	667NS-ES 185	ASHE III,CL 3		
	NAMCO LIMIT SWITCH EA 170			

[illegible]

3FNA=AOV37	SG AUX FDWTR ALT SUCT	ESB 00021 DM	Y	N	3G	S	NA	NA	33+	A Y
	8K025-03	NA								
9210	105	ASHE III,CL2								

3FMA#AOV61A DWST TO P1A&B ISO VLVS ESF D

* 185 ASME III,CL2

3FMA#AOV61B DWST TO P1A1B ISO VLVs ESF D

* 185 ASHE III,CL2

SOV - VALVE, SOLENOID

3FHA*SOV23A	SG AUX FDNTR PMP ALT SUCT	ESB 00021 DM	Y	N	3G	N	SF	SD	35+	A
	FISHER	AQR-67360	NA							
		185	IEEE 323,344,382							
	ASCO SOLENOID	NPK 8320								

3FMA*SOV23B	SG AUX FDWTR PMP ALT SUCT	ESB 00021 DM	Y	N	3G	N	SF	SD	35+	A
	FISHER	AQR-67368	NA							
		185	IEEE 323,344,382							
	ASCO SOLENOID	NPK 8320								

REPORT NO. HSSQT1

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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYH INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

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[illegible]

3FWA*SOV26	DWST HTR CIRC LINE ISOL	OY	DM	Y	N	36	A
	FISHER		NA				
		185	IEEE	323,344,302			
	ASCO SOLENOID	NPK 8320					

RV - VALVE,RELIEF

3FNA*RV45	TURB DR PHP RELF	ESB 00027 DH	Y	N	3G	S	SF	SD	33+	A
		407487-REV.5	NA							
	DV-70H	186	ASME III,CL3							

FI - INDICATOR, FLOW

3FNA*FI33B1	AUX FW FLOW	CB	Y	N	C
	AAJ-107		NS(B)-017 REV 1B		
	245		IEEE-344,322		

3FNA*FI33C1	AUX FM FLOW	CB	Y	N	C
	AAJ-107		NS(D)-017 REV 1B		
	245		IEEE-34C,322		

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3FMA*FI51A1      AUX FM FLOW                      CB      CM      .40.15 N      HF      MD      NA      NA      NA
                  SQP-99X2087-A
INT'L INST 1151VB 245                      IEEE 344 & NUREG 0800

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3FNA#FY33A1	AUX FW FLOW	CB	M	Y	N	.40.15	N	MF	MD	NA	NA	NA	C
	FOXBORO	Q0AAB35	NS(B)-017 REV 1B										
	N-2AI-12V	392	IEEE 344,323										
	I/E CONVERTER	N-2AI-12V											

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FHA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLOG ELEV MTG	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3FHA*FY33A2	AUX FW FLOW FOXBORO N-2AO-V2I E/I CONVERTER	QOAB50 392 N-2AO+V2I	CB	Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF HD NA NA NA NA	C	
3FHA*FY33B1	AUX FW FLOW FOXBORO N-2AI-P2V I/E CONVERTER	QOAB50 392 N-2AI-I2V	CB	Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF HD NA NA NA NA	C	
3FHA*FY33B2	AUX FW FLOW FOXBORO N-2AO-V2I E/I CONVERTER	QOAB50 392 N-2AO+V2I	CB	Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF HD NA NA NA NA	C	
3FHA*FY33C1	AUX FW FLOW FOXBORO N-2AI-P2V I/E CONVERTER	QOAB35 392 N-2AI-I2V	CB	RH Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF HD NA NA NA NA	C	
3FHA*FY33C2	AUX FW FLOW FOXBORO N-2AO-V2I E/I CONVERTER	QOAB50 392 N-2AO+V2I	CB	RH Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF HD NA NA NA NA	C	
3FHA*FY33D1	AUX FW FLOW FOXBORO N-2AI-P2V I/E CONVERTER	QOAB35 392 N-2AI-I2V	CB	RH Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF HD NA NA NA NA	C	
3FHA*FY33D2	AUX FW FLOW FOXBORO N-2AI-P2V E/I CONVERTER	QOAB50 392 N-2AO+V2I	CB	RH Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF HD NA NA NA NA	C	

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3FMAWY51A1	AUX FW FLOW FOXBORO N-2AI-P2V I/E CONVERTER	QQAAB35 392 N-2AI-I2V	CB	RH Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA NA	C	
3FMAWY51A2	AUX FW FLOW FOXBORO N-2AO-V2I E/I CONVERTER	QQAAB50 392 N-2AO+V2I	CB	RH Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA NA	C	
3FMAWY51B1	AUX FW FLOW FOXBORO N-2AI-P2V I/E CONVERTER	QQAAB35 392 N-2AI-I2V	CB	RH Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA NA	C	
3FMAWY51B2	AUX FW FLOW FOXBORO N-2AO-V2I E/I CONVERTER	QQAAB50 392 N-2AO+V2I	CB	RH Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA NA	C	
3FMAWY51C1	AUX FW FLOW FOXBORO N-2AO-P2V I/E CONVERTER	QQAAB35 392 N-2AI-I2V	CB	RH Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA NA	C	
3FMAWY51C2	AUX FW FLOW FOXBORO N-2AO-V2I E/I CONVERTER	QQAAB50 392 N-2AO+V2I	CB	RH Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA NA	C	
3FMAWY51D1	AUX FW FLOW FOXBORO N-2AI-I2V R/E CONVERTER	QQAAB35 392 N-2AI-I2V	CB	RH Y N .40.15 N NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA NA	D	

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

.....

3FNA#FY51D2	AUX FN FLOW		CB	RH Y N .40.15 N MF MD NA NA NA C
	FOXBORO	QQAAB50		NS(B)-017 REV 19
	N-2A0-V2I	392		IEEE 344.323
	E/I CONVERTER	N-2A0+V2I		

HIC - CONTROLLER, INDICATING, HAND

[illegible][illegible]

3FNAWHIC31B1	AUX FW CONTROL	ESB	RM	Y	N	.40.15	N	HF	MD	NA	NA	NA	D
	FOXBCRO	QQAAB67	NS(B)-010-REV 0B										
	N-255HM-V	392	IEEE 344,323										
	MANUAL DISPL STATION N-255HM-V												

[illegible][illegible]

3FMAWHTC31C2	AUX FW CONTROL	ESB	RH	Y	N	N	MF	MD	NA	NA	NA	D
	FOXBORO	Q0AAB67	NS(B)-010 REV 0B									
	N-225HM-V	392	IEEE 344,323									
	MANUAL DISPL STATION N-225HM-V											

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FHA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3FNAWHIC31D1	AUX FW CONTROL FOXBORO N-225HM-V MANUAL DISPL STATION N-255HM-V	QOAB67 392	ESB	RH Y N NS(B)-010 REV 0B IEEE 344,323	N HF MD	NA NA NA	D
3FNAWHIC31D2	AUX FW CONTROL FOXBORO N-225HM-V MANUAL DISPL STATION N-255HM-V	QOAB67 392	ESB	RH Y N NS(B)-010 REV 0B IEEE 344,323	N HF MD	NA NA NA	D
3FNAWHIC32A1	AUX FW CONTROL FOXBORO N-225HM-V MANUAL DISPL STATION N-255HM-V	QOAB67 392	ESB	RH Y N NS(B)-010 REV 0B IEEE 344,323	N HF MD	NA NA NA	D
3FNAWHIC32A2	AUX FW CONTROL FOXBORO N-225HM-V MANUAL DISPL STATION N-255HM-V	QOAB67 392	ESB	RH Y N NS(B)-010 REV 0B IEEE 344,323	N HF MD	NA NA NA	D
3FNAWHIC32B1	AUX FW CONTROL FOXBORO N-225HM-V MANUAL DISPL STATION N-255HM-V	QOAB67 392	ESB	RH Y N NS(B)-010 REV 0B IEEE 344,323	N HF MD	NA NA NA	D
3FNAWHIC32B2	AUX FW CONTROL FOXBORO N-225HM-V MANUAL DISPL STATION N-255HM-V	QOAB67 392	ESB	RH Y N NS(B)-010 REV 0B IEEE 344,323	N HF MD	NA NA NA	D
3FNAWHIC32C1	AUX FW CONTROL FOXBORO N-225HM-V MANUAL DISPL STATION N-255HM-V	QOAB67 392	ESB	RH Y N NS(B)-010 REV 0B IEEE 344,323	N HF MD	NA NA NA	D

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D ANLYS TEST TEST F/B S/S VERT SQ INS	LOCATION --- ----- LOADS ----- --- QUAL METH -- --- NAT FREQS ----- STATUS
			RRS REF DYN. INPUT (ZPA)		
3FNA*HIC32C2	AUX FW CONTROL FOXBORO N-255HM-V MANUAL DISPL STATION N-255HM-V	QOAA67 392	ESB	RH Y N NS(B)-010 REV 0B IEEE 344,323	N MF MD NA NA NA D
3FNA*HIC32D1	AUX FW CONTROL FOXBORO N-255HM-V MANUAL DISPL STATION N-255HM-V	QOAA67 392	ESB	RH Y N NS(B)-010 REV 0B IEEE 344,323	N MF MD NA NA NA D
3FNA*HIC32D2	AUX FW CONTROL FOXBORO N-255HM-V MANUAL DISPL STATION N-255HM-V	QOAA67 392	ESB	RH Y N NS(B)-010-REV 0B IEEE 344,323	N MF HD NA NA NA D
3FNA*HIC36A1	AUX FW CONTROL FOXBORO N-255HM-V MANUAL DISPL STATION N-255HM-V	QOAA67 392	ESB	RH Y N NS(B)-010-REV 0B IEEE 344,323	N MF MD NA NA NA D
3FNA*HIC36A2	AUX FW CONTROL FOXBORO N-255HM-V MANUAL DISPL STATION N-255HM-V	QOAA67 392	ESB	RH Y N NS(B)-010-REV 0B IEEE 344,323	N MF MD NA NA NA D
3FNA*HIC36B1	AUX FW CONTROL FOXBORO N-255HM-V MANUAL DISPL STATION N-255HM-V	QOAA67 392	ESB	RH Y N NS(B)-010-REV 0B IEEE 344,323	N MF MD NA NA NA D
3FNA*HIC36B2	AUX FW CONTROL FOXBORO N-255HM-V MANUAL DISPL STATION N-255HM-V	QOAA67 392	ESB	RH Y N NS(B)-010-REV 0B IEEE 344,323	N MF MD NA NA NA D

REPORT NO. MSSQT1

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UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV HTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLVS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3FWA*HIC36C1	AUX FW CONTROL FOXBORO N-225HM-V MANUAL DISPL STATION	Q0AAB67 392 N-255HM-V	ESB	RH Y N NS(B)-010-REV 0B IEEE 344,323	N MF MD	NA NA NA	D
3FWA*HIC36C2	AUX FW CONTROL FOXBORO N-255HM-V MANUAL DISPL STATION	Q0AAB67 392 N-255HM-V	ESB	RH Y N NS(B)-010,REV 0B IEEE 344,323	N MF MD	NA NA NA	A
3FWA*HIC36D1	AUX FW CONTROL FOXBORO N-255HM-V MANUAL DISPL STATION	Q0AAB67 392 N-255HM-V	ESB	RH Y N NS(B)-010,REV 0B IEEE 344,323	N MF MD	NA NA NA	A
3FWA*HIC36D2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR MANUAL DISPL STATION	Q0AAB33 392 N-255HM-V	CB	RH Y N NS(B)-017 REV 0B IEEE 344	N MF MD	NA NA NA	C

HS - SWITCH,HAND

3FWA*HS31A1	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017,REV 1B IEEE 344,323	N MF MD	NA NA NA	C
3FWA*HS31A2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017,REV 1B IEEE 344,323	N MF MD	NA NA NA	C
3FWA*HS31A3	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD	NA NA NA	C

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/64

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

DOCKET NO. 50-423

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	QUAL METH	NAT FREQS	STATUS
3FNA*HS31A4	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	HF MD	NA NA NA	C
3FNA*HS31B1	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	HF MD	NA NA NA	C
3FNA*HS31B2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	HF MD	NA NA NA	C
3FNA*HS31B3	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	HF MD	NA NA NA	C
3FNA*HS31B4	AUX FW CONTROL FOXBORO SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	HF MD	NA NA NA	C
3FNA*HS31C1	AUX FW CONTROL FOXBORO SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	HF MD	NA NA NA	C
3FNA*HS31C2	AUX FW CONTROL FOXBORO SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	HF MD	NA NA NA	C

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3FWA*HS31C3	AUX FW CONTROL FOXBORO	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,322	N MF MD NA NA NA	C	
3FWA*HS31C4	AUX FW CONTROL FOXBORO	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FWA*HS31D1	AUX FW CONTROL FOXBORO	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FWA*HS31D2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FWA*HS31D3	AUX FW CONTROL FOXBORO N-2AP+ALM-AR	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FWA*HS31D4	AUX FW CONTROL FOXBORO N-2AP+ALM-AR	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FWA*HS32A1	AUX FW CONTROL FOXBORO N-2AP+ALM-AR	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	

REPORT NO. MS5QT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FNA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3FNA*HS32A2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HS32A3	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HS32A4	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HS32B1	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HS32B2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HS32B3	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	D	
3FNA*HS32B4	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3FWA#HS32C1	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	C	
3FWA#HS32C2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	C	
3FWA#HS32C3	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	C	
3FWA#HS32C4	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	C	
3FWA#HS32D1	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	C	
3FWA#HS32D2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	C	
3FWA#HS32D3	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	C	

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	ANLYS TEST TEST FREQ DIR	F/B	S/S	VERT	SQ	INS	STATUS
3FNA*HS32D4	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QOAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	C
3FNA*HS36A1	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QOAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	C
3FNA*HS36A2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QOAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	C
3FNA*HS36A3	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QOAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	C
3FNA*HS36A4	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QOAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	C
3FNA*HS36B1	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QOAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	C
3FNA*HS36B2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QOAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	C

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	ANLYS TEST TEST FREQ DIR	QUAL METH	NAT FREQS	F/B	S/S	VERT	SQ	INS	STATUS
3FWA*HS36B3	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF MD	NA	NA	NA	NA	C		
3FWA*HS36B4	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF MD	NA	NA	NA	NA	C		
3FWA*HS36C1	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF MD	NA	NA	NA	NA	C		
3FWA*HS36C2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF MD	NA	NA	NA	NA	C		
3FWA*HS36C3	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF MD	NA	NA	NA	NA	C		
3FWA*HS36C4	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF MD	NA	NA	NA	NA	C		
3FWA*HS36D1	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AAB33 392 N-2AP+ALM-AR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF MD	NA	NA	NA	NA	C		

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

.....

3FNA*HS36D2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RM	Y	N	N	MF	MD	NA	NA	NA	C
3FNA*HS36D3	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RM	Y	N	N	MF	MD	NA	NA	NA	C
3FNA*HS36D4	AUX FW CONTROL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	QQAAB33 392 N-2AP+ALM-AR	CB	RM	Y	N	N	MF	MD	NA	NA	NA	C

HY - MANUALLY INITIATED CONVERTER

3FHA*HY31A1	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUTION MODEL	QOAAA05 392 N-2AX+DIO	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	A
3FHA*HY31A2	AUX FW CONTROL FOXBORO N-2AP+ALM-AR DISTRUBUTION MODEL	QOAAA05 392 N-2AX+DIO	CB	RM Y N HS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	A
3FHA*HY31A3	AUX FW CONTROL FOXBORO N-2AX+DSR RELAY LOGIC CARD	QOAAAB16 392 N-2AX+DSR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	A
3FHA*HY31A4	AUX FW CONTROL FOXBORO N-2AI-C2L CONTACT INPT ISOLATR	QOAAAB15 392 N-2AI-C2L	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	A

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC			RRS REF	DYN.	INPUT									
	VEND MODEL	MANUFACTURER			CODES		(ZPA)									
		MANUFAC MODEL														
3FNA*HY31A7	AUX FW CONTROL FOXBORO N-2AI-I2V I/E CONVERTER	Q0AAB35 392 N-2AI-I2V	CB		RM Y N NS(B)-017 REV 1B IEEE 344,323			N	HF	MD	NA	NA	NA			C
3FNA*HY31B1	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUTION MODEL	Q0AAB05 392 N-2AX+DIO	CB		RM Y N NS(B)-017 REV 1B IEEE 344,323											C
3FNA*HY31B2	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUTION MODEL	Q0AAB05 392 N-2AX+DIO	CB		RM Y N NS(B)-017 REV 1B IEEE 344,323											A
3FNA*HY31B3	AUX FW CONTROL FOXBORO N-2AX+DSR RELAY LOGIC CARD	Q0AAB18 392 N-2AX+DSR	CB		RM Y N NS(B)-017 REV 1B IEEE 344,323			N	HF	MD	NA	NA	NA			A
3FNA*HY31B4	AUX FW CONTROL FOXBORO N-2AI-C2L CONTACT INPT ISOLATR	Q0AAB15 392 N-2AI-C2L	CB		RM Y N NS(B)-017 REV 1B IEEE 344,323			N	HF	MD	NA	NA	NA			A
3FNA*HY31B7	AUX FW CONTROL FOXBORO N-2AI-I2V I/E CONVERTER	Q0AAB35 392 N-2AI-I2V	CB		RM Y N NS(B)-017 REV 1B IEEE 344,323			N	HF	MD	NA	NA	NA			C
3FNA*HY31C1	AUX FW CONTROL FOXBORO DISTRUBUTION MODEL	Q0AAB35 392 N-2AX+DIO	CB		RM Y N NS(B)-017 REV 1B IEEE 344,323			N	HF	MD	NA	NA	NA			A

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCOSEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV HTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	QUAL METH --	NAT FREQS ----	STATUS
3FHA*HY31C2	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUTION MODEL	Q0AAA05 392 N-2AX+DIO	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA A			
3FHA*HY31C3	AUX FW CONTROL FOXBORO N-2AX+DIO RELAY LOGIC CARD	Q0AAB18 392 N-2AX+DSR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA A			
3FHA*HY31C4	AUX FW CONTROL FOXBORO N-2AI-C2L CONTACT INPT ISOLATR	Q0AAB15 392 N-2AI-C2L	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA A			
3FHA*HY31C7	AUX FW CONTROL FOXBORO N-2AI-I2V I/E CONVERTER	Q0AAB35 392 N-2AI-I2V	CB	RM Y N NS(B)-017 REV 1B IEEE 344,322	N MF MD NA NA NA C			
3FHA*HY31D1	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUTION MODEL	Q0AAA05 392 N-2AX+DIO	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA A			
3FHA*HY31D2	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUTION MODEL	IEEE 344,323 392 N-2AX+DIO	CB	RM Y N NS(B)-017 REV 1B IEEE 344			A	
3FHA*HY31D3	AUX FW CONTROL FOXBORO N-2AX+DSR RELAY LOGIC CARD	Q0AAB18 392 N-2AX+DSR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA A			

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	NAT FREQS	F/B	S/S	VERT	SQ INS
3FNA*HY31D4	AUX FW CONTROL FOXBORO N-2AI-C2L CONTACT INPT ISOLATR	QQAAB15 392 N-2AI-C2L	CB	RH Y N	NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA A					
3FNA*HY31D7	AUX FW CONTROL FOXBORO N-2AI-I2V I/E CONVERTER	QQAAB35 392 N-2AI-I2V	CB	RH Y N	NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA C					
3FNA*HY32A1	AUX FW CONTROL FOXBORO N-2AX+DIO DUSTRUBUTION MODEL	QOAAA05 392 N-2AX+DIO	CB	RH Y N	NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA A					
3FNA*HY32A2	AUX FW CONTROL FOXBORO N-2AX+DIO DUSTRUBUTION MODEL	QOAAA05 392 N-2AX+DIO	CB	RH Y N	NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA A					
3FNA*HY32A3	AUX FW CONTROL FOXBORO N-2AX+DSR RELAY LOGIC CARD	QQAAB18 392 N-2AX+DSR	CB	RH Y N	NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA A					
3FNA*HY32A4	AUX FW CONTROL FOXBORO N-2AI-C2L CONTACT INPT ISOLATR	QQAAB15 392 N-2AI-C2L	CB	RH Y N	NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA A					
3FNA*HY32A5	AUX FW CONTROL FOXBORO N-2AO-V2I E/I CONVERTER	QQAAB50 392 N-2AO-V2I	CB	RH Y N	NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA C					

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES	LOADS REQ'D ANLYS TEST TEST FREQ DIR	QUAL METH --	NAT FREQS	STATUS
3FNA*HY32A7	AUX FW CONTROL FOXBORO N-2AI-I2V I/E CONVERTER	Q0AAB35 392 N-2AI-I2V	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C		
3FNA*HY32B1	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUTION MODEL	Q0AAA05 392 N-2AX+DIO	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	A		
3FNA*HY32B2	AUX FW CONTROL FOXBORO N-2AX+DSR DISTRUBUTION MODEL	Q0AAA05 392 N-2AX+DIO	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	A		
3FNA*HY32B3	AUX FW CONTROL FOXBORO N-2AX+DSR RELAY LOGIC CARD	Q0AAB18 392 N-2AX+DSR	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	A		
3FNA*HY32B4	AUX FW CONTROL FOXBORO N-2AI-C2L CONTACT INPT ISOLATR	Q0AAB15 392 N-2AI-C2L	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	A		
3FNA*HY32B5	AUX FW CONTROL FOXBORO N-2AO-V2I E/I CONVERTER	Q0AAB50 392 N-2AO+V2I	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C		
3FNA*HY32B7	AUX FW CONTROL FOXBORO N-2AI-I2V I/E CONVERTER	Q0AAB35 392 N-2AI-I2V	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C		

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3FNA*HY32C1	AUX FW CONTROL FOXBORO N-2AX+D10 DUSTRUBUTION MODEL	QOAAA05 392 N-2AX+D10	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HY32C2	AUX FW CONTROL FOXBORO N-2AX+D10 DUSTRUBUTION MODEL	QOAAA05 392 N-2AX+D10	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HY32C3	AUX FW CONTROL FOXBORO N-2AX+DSR RELAY LOGIC CARD	QOAB18 392 N-2AX+DSR	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	D	
3FNA*HY32C4	AUX FW CONTROL FOXBORO N-2AI-C2L CONTACT INPT ISOLATR	QOAB15 392 N-2AI-C2L	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	A	
3FNA*HY32C5	AUX FW CONTROL FOXBORO N-2AO-V2I E/I CONVERTER	QOAB50 392 N-2AO+V2I	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HY32C7	AUX FW CONTROL FOXBORO N-2AI-I2V I/E CONVERTER	QOAB35 392 N-2AI-I2V	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HY32D1	AUX FW CONTROL FOXBORO N-2AX+D10 DUSTRUBUTION MODEL	QOAAA05 392 N-2AX+D10	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3FNA*HY32D2	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUTION MODEL	QOAAA05 392 N-2AX+DIO	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HY32D3	AUX FW CONTROL FOXBORO N-2AX+DSR RELAY LOGIC CARD	QOAAAB18 392 N-2AX+DSR	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	D	
3FNA*HY32D4	AUX FW CONTROL FOXBORO N-2AI-C2L CONTACT INPT ISOLATR	QOAAAB15 392 N-2AI-C2L	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	A	
3FNA*HY32D5	AUX FW CONTROL N-2AO-V2I	QOAAAB50 392	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	D	
3FNA*HY32D7	AUX FW CONTROL FOXBORO N-2AI-I2V I/E CONVERTER	QOAAAB35 392 N-2AI-I2V	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HY36A1	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUTION MODEL	QOAAA05 392 N-2AX+DIO	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HY36A2	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUTION MODEL	QOAAA05 392 N-2AX+DIO	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
SSS SUPPLIER: WESTINGHOUSE

SYSTEM FHA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3FNA*HY36A3	AUX FW CONTROL FOXBORO N-2AX+DSR RELAY LOGIC CARD	QQAAB18 392 N-2AX+DSR	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	D	
3FNA*HY36A4	AUX FW CONTROL FOXBORO N-2AX-C2L CONTACT INPT ISOLATR	QQAAB15 392 N-2AI-C2L	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	A	
3FNA*HY36A5	AUX FW CONTROL FOXBORO N-2AO-V2I E/I CONVERTER	QQAAB50 392 N-2AO+V2I	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HY36A7	AUX FW CONTROL FOXBORO N-2AI-I2V I/E CONVERTER	QQAAB35 392 N-2AI-I2V	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HY36B1	AUX FW CONTROL FOXBORO N-2AX+D10 DUSTRUBUTION MODEL	QQAAB05 392 N-2AX+D10	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HY36B2	AUX FW CONTROL FOXBORO N-2AX+D10 DUSTRUBUTION MODEL	QQAAB05 392 N-2AX+D10	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FNA*HY36B3	AUX FW CONTROL FOXBORO N-2AX+DSR RELAY LOGIC CARD	QQAAB18 392 N-2AX+DSR	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	D	

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES	ANLYS TEST TEST FREQ DIR	QUAL METH --	NAT FREQS ----	STATUS
3FWA*HY36B4	AUX FW CONTROL FOXBORO N-2AI-C2L CONTACT INPT ISOLATR	Q0AAB15 392 N-2AI-C2L	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA A			
3FWA*HY36B5	AUX FW CONTROL FOXBORO N-2AO-V2I E/I CONVERTER	Q0AAB50 392 N-2AO-V2I	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA C			
3FWA*HY36B7	AUX FW CONTROL FOXBORO N-2AI-I2V I/E CONVERTER	Q0AAB35 392 N-2AI-I2V	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA C			
3FWA*HY36C1	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUTION MODEL	Q0AAA05 392 N-2AX+DIO	CB	RM Y H NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA C			
3FWA*HY36C2	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUTION MODEL	Q0AAA05 392 N-2AX+DIO	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA C			
3FWA*HY36C3	AUX FW CONTROL FOXBORO N-2AX+DSR RELAY LOGIC CARD	Q0AAB18 392 N-2AX+DSR	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA D			
3FWA*HY36C4	AUX FW CONTROL FOXBORO N-2AI-C2L CONTACT INPT ISOLATR	Q0AAB15 392 N-2AI-C2L	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA A			

REPORT NO. HSSQT1

 NT NAME MILLSTONE UNIT 3
 ALITY MUSCO

DOCKET NO. 50-423

 PROJECT EQUIPMENT SYSTEM
 SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
 MASTER LIST OF SAFETY RELATED EQUIPMENT
 BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

 ENGINEER: STONE & WEBSTER
 NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3FWA*HY36C5	AUX FW CONTROL FOXBORO N-2AO-V2I E/I CONVERTER	QOAAAB50 392 N-2AO+V2I	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FWA*HY36C7	AUX FW CONTROL FOXBORO N-2AI-I2V I/E CONVERTER	QOAAAB35 392 N-2AI-I2V	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FWA*HY36D1	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUYION MODEL	QOAAA05 392 N-2AX+DIO	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FWA*HY36D2	AUX FW CONTROL FOXBORO N-2AX+DIO DISTRUBUYION MODEL	QOAAA05 392 N-2AX+DIO	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	C	
3FWA*HY36D3	AUX FW CONTROL FOXBORO N-2AX+DSR RELAY LOGIC CARD	QOAAAB18 392 N-2AX+DSR	CB	RM Y N NS(B)-017-REV 1B IEEE 344,323	N MF MD NA NA NA	D	
3FWA*HY36D4	AUX FW CONTROL FOXBORO N-2AI-C2L CONTACT INPT ISOLATR	QOAAAB15 392 N-2AI-C2L	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	A	
3FWA*HY36D5	AUX FW CONTROL FOXBORO N-2AO-V2I E/I CONVERTER	QOAAAB50 392 N-2AO+V2I	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	C	

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UTILITY NUSCO

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FHA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC	RRS	REF	DYN.	INPUT										
	VEND MODEL	MANUFACTURER	MANUFAC MODEL	CODES		(ZPA)										

3FHA*HY36D7	AUX FM CONTROL	Q0AAB35	CB	RM	Y	N		N	MF	MD	NA	NA	NA			C
	FOXBORO	392		NS(B)-017	REV	1B										
	N-2AI-I2V			IEEE	344,323											
	I/E CONVERTER	N-2AI-I2V														

LI - INDICATOR, LEVEL

3FHA*LI20A1	DEMIN WTR STOR TK LVL	Q0AAB35	CB	RM	Y	N		N	MF	MD	NA	NA	NA			D
		392		NS(B)-017	REV	1B										
				IEEE	344,323											
3FHA*LI20A2	DEMIN WTR STOR TK LVL		CB	RM	Y	N										D
		392		NS(B)-017	REV	1B										
				IEEE	344,323											
3FHA*LI20B1	DEMIN WTR STOR TK LVL		CB	RM	Y	N										D
		392		NS(B)-017	REV	1B										
				IEEE	344,323											
3FHA*LI20B2	DEMIN WTR STOR TK LVL		CB	RM	Y	N										D
		392		NS(B)-017	REV	1B										
				IEEE	344,323											

LR - RECORDER, LEVEL

3FHA*LR20	DEMIN WTR STOR TK LVL	Q0AAA11	CB	RM	Y	N										C
	FOXBORO	392		NS(B)-017	REV	1B										
	N-226S-16			IEEE	344,323											
	ELECTRONIC RECORDERS	N-226S-16														

LS - SWITCH, LEVEL

DOCKET NO. 50-423

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

[illegible][illegible]

3FNA*LS20B1	DEMIN WTR STOR TK LVL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AA633 392 N-2AP+ALM-AR	CB	RM	Y	N	N	MF	MD	NA	NA	NA	C
3FNA*LS20B2	DEMIN WTR STOR TK LVL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AA833 392 N-2AP+ALM-AR	CB	RM	Y	N	N	MF	MD	NA	NA	NA	C
3FNA*LS20B3	DEMIN WTR STOR TK LVL FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	Q0AA833 392 N-2AP+ALM-AR	CB	RM	Y	N	N	MF	MD	NA	NA	NA	C

LY - RELAY, LEVEL, COMPUTING, SELECTING OR BOOSTER

3FNAWLY20A1	DEMIN WTR STOR TK LVL FOXBORO N-2AI-I2V I/E CONVERTER	QQAAB35 392 N-2AI-I2V	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	C
3FNAWLY20A2	DEMIN WTR STOR TK LVL FOXBORO N-2AO-V2I E/I CONVERTER	QQAAB50 392 N-2AO+V2I	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	C
3FNAWLY20B1	DEMIN WTR STOR TK LVL FOXBORO N-2AI-I2V I/E CONVERTER	QQAAB35 392 N-2AI-I2V	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	C
3FNAWLY20B2	DEMIN WTR STOR TK LVL FOXBORO N-2AO-V2I E/I CONVERTER	QQAAB50 392 N-2AO+V2I	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N	MF	MD	NA	NA	NA	C

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FHA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC	RRS REF		DYN.	INPUT										
	VEND MODEL	MANUFACTURER	MANUFAC MODEL													

PS - SWITCH,PRESSURE

3FNA*PS52A	AUX FDPMP SUCT PRESS	ESB 00004	RM	Y	N	.23.12	N	SF	SD	40+	40+	40+	A	Y		
	AUTOMATIC SWITCH CO	AQR-101083,R.O														
	SB21AKR/TE20A32BRX	626														
	ASCO PRESSURE SWITCH	SB21AKR/TE20A32BRX														
3FNA*PS52B	AUX FDPMP SUCT PRESS	ESB 00004	RM	Y	N	.20.12	N	SF	SD	40+	40+	40+	A	Y		
	AUTOMATIC SWITCH CO	AQR-101083,R.O														
	SB21AKR/TE20A32BRX	626														
	ASCO PRESSURE SWITCH	SB21AKR/TE20A32BRX														
3FNA*PS52C	AUX FDPMP SUCT PRESS	ESB 00004	RM	Y	N	.20.12	N	SF	SD	40+	40+	40+	A	Y		
	AUTOMATIC SWITCH CO	AQR-101083,R.O														
	SB21AKR/TE20A32BRX	626														
	ASCO PRESSURE SWITCH	SB21AKR/TE20A32BRX														

ADV - VALVE,AIR OPERATED

3FNA*ADV62A	GATE VALVE-AO	ESF	DM	Y	N	36	S	NA	NA	33+			A	Y		
		FA-5632														
	*	651														
3FNA*ADV62B	GATE VALVE-AO	ESF														
	*	651														

HV - VALVE,HAND

3FNA*HV31A	SG AUX FDNTR CONT TARGET ROCK CORP 81AB-005 81AB-005 654 MODLTNG SOLENOID VLV 81AB-005	ESB 00026	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A
3FNA*HV31B	AUX FW CONTROL TARGET ROCK CORP 81AB-005 81AB-005 654 MODLTNG SOLENOID VLV 81AB-005	ESB	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A
3FNA*HV31C	AUX FW CONTROL TARGET ROCK CORP 81AB-005 81AB-005 654 MODLTNG SOLENOID VLV 81AB-005	ESB	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A
3FNA*HV31D	AUX FW CONTROL TARGET ROCK CORP 81AB-005 81AB-005 654 MODLTNG SOLENOID VLV 81AB-005	ESB 00026	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A
3FNA*HV32A	AUX FW CONTROL TARGET ROCK CORP 81AB-005 81AB-005 654 MODLTNG SOLENOID VLV 81AB-005	ESB 00021	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A
3FNA*HV32B	AUX FW CONTROL TARGET ROCK CORP 81AB-005 81AB-005 654 MODLTNG SOLENOID VLV 81AB-005	ESB 00021	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A
3FNA*HV32C	AUX FW CONTROL TARGET ROCK CORP 81AB-005 81AB-005 654 MODLTNG SOLENOID VLV 81AB-005	ESB 00021	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A

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REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS		
	DESCRIPTION	QUAL REPORT	BLOG ELEV	MTG	SEIS	OTHER REQ'D	ANLYS TEST	TEST	F/B	S/S		VERT	SQ
	VENDOR				RRS REF	DYN. INPUT							
	VEND MODEL	SPEC			CODES	(ZPA)							
	MANUFACTURER	MANUFAC MODEL											

3FNA*HV32D	AUX FW CONTROL TARGET ROCK CORP 81AB-005 MODLTNG SOLENOID VLV	81AB-005 654 81AB-005	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A
3FNA*HV36A	AUX FW CONTROL TARGET ROCK CORP 81AB-005 MODLTNG SOLENOID VLV	81AB-005 654 81AB-005	ESB 00038	DM	Y	N	3G	S	NA	NA	33+	A
3FNA*HV36B	AUX FW CONTROL TARGET ROCK CORP 81AB-005 MODLTNG SOLENOID VLV	81AB-005 654 81AB-005	ESB 00022	DM	Y	N	3G	S	NA	NA	33+	A
3FNA*HV36C	AUX FW CONTROL TARGET ROCK CORP 81AB-005 MODLTNG SOLENOID VLV	81AB-005 654 81AB-005	ESB 00022	DM	Y	N	3G	S	NA	NA	33+	A
3FNA*HV36D	AUX FW CONTROL TARGET ROCK CORP 81AB-005 MODLTNG SOLENOID VLV	81AB-005 654 81AB-005	ESB	DM	Y	N	3G	S	NA	NA	33+	A

HY - MANUALLY INITIATED CONVERTER

3FNA*HY31A6	AUX FW CONTROL TARGET ROCK CORP 203114 ELCTRNC CNTRL MODULE	3040 654 81AB CONTROLLER	ESB 00021	EM	Y	N	3G	S	NA	NA	33+	A Y
3FNA*HY31B6	AUX FW CONTROL TARGET ROCK CORP 203114 ELCTRNC CNTRL MODULE	3040 654 81AB CONTROLLER	ESB 00021	EM	Y	N	3G	S	NA	NA	33+	A Y

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDN	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC				RRS	REF	DYN.	INPUT		FREQ	DIR					
	MANUFACTURER	MANUFAC MODEL				CODES		(ZPA)									
3FNA*HY31C6	AUX FW CONTROL TARGET ROCK CORP 203114 ELCTRNC CNTRL MODULE	3040 654 81AB CONTROLLER	ESB	00021	EH	Y	N	3G	S	NA	NA		33+		A	Y	
3FNA*HY31D6	AUX FW CONTROL TARGET ROCK CORP 203114 ELCTRNC CNTRL MODULE	3040 654 81AB CONTROLLER	ESB	00021	EH	Y	N	3G	S	NA	NA		33+		A	Y	
3FNA*HY32A6	AUX FW CONTROL TARGET ROCK CORP 203114 ELCTRNC CNTRL MODULE	3040 654 81AB CONTROLLER	ESB	00021	EH	Y	N	3G	S	NA	NA		33+		A	Y	
3FNA*HY32B6	AUX FW CONTROL TARGET ROCK CORP 203114 ELCTRNC CNTRL MODULE	3040 654 81AB CONTROLLER	ESB	00021	EH	Y	N	3G	S	NA	NA		33+		A	Y	
3FNA*HY32C6	AUX FW CONTROL TARGET ROCK CORP 203114 ELCTRNC CNTRL MODULE	3040 654 81AB CONTROLLER	ESB	00021	EH	Y	N	3G	S	NA	NA		33+		A	Y	
3FNA*HY32D6	AUX FW CONTROL TARGET ROCK CORP 203114 ELCTRNC CNTRL MODULE	3040 654 81AB CONTROLLER	ESB	00021	EH	Y	N	3G	S	NA	NA		33+		A	Y	
3FNA*HY36A6	CONTROLLER FOR 3FNA*HV36A TARGET ROCK CORP 203114 ELCTRNC CNTRL MODULE	3040 654 81AB CONTROLLER	ESB	00036	EH	Y	N	3G	S	NA	NA		33+		A	Y	

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UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV MTG	SEIS OTHER REQ'D	LOADS	ANLYS TEST TEST	NAT FREQS	VERT	SQ	INS	STATUS
	VENDOR	SPEC	RRS REF	DYN. INPUT		FREQ DIR	F/B	S/S			
	VEND MODEL		CODES	(ZPA)							
	MANUFACTURER	MANUFAC MODEL									

3FNAWNY36B6	AUX FW CONTROL		ESB 00036 EM	Y	N	3G	S	NA	NA	33+	A Y
	TARGET ROCK CORP	3040	NA								
	203114	654	ASME III,CL2								
	ELCTRNC CNTRL MODULE	81AB CONTROLLER									
3FNAWNY36C6	AUX FW CONTROL		ESB 00036 EM	Y	N	3G	S	NA	NA	33+	A Y
	TARGET ROCK CORP	3040	NA								
	203114	654	ASME III,CL2								
	ELCTRNC CNTRL MODULE	81AB CONTROLLER									
3FNAWNY36D6	AUX FW CONTROL		ESB 00036 EM	Y	N	G3	S	NA	NA	33+	A Y
	TARGET ROCK CORP	3040	NA								
	203114	654	ASME III,CL2								
	ELCTRNC CNTRL MODULE	81AB CONTROLLER									

FT - TRANSMITTER, FLOW

3FHA*FT33A	AUX FW FLOW ROSEMOUNT 1153DD DIFF PRSSR TRANSMITR	D8300040 662 1153DD5PC	CS 00024 RM Y N .40.22 N MF MD 38 39 60 A Y
3FHA*FT33B	AUX FW FLOW ROSEMOUNT 1153DD DIFF PRSSR TRANSMITR	D8300040 662 1153DD5PC	CS 00003 RM Y N .33.20 N MF MD 38 38 60 A Y
3FHA*FT33C	AUX FW FLOW ROSEMOUNT 1153DD DIFF PRSSR TRANSMITR	D8300040 662 1153DD5PC	CS 00003 RM Y N .33.20 N MF MD 38 38 60 A Y
3FHA*FT33D	SG AUX FDWTR ROSEMOUNT 1153DD DIFF PRSSR TRANSMITR	D8300040 662 1153DD5PC	CS 00024 RM Y N .40.22 N MF MD 38 38 60 A Y

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

DOCKET NO. 50-423

SYSTEM FNA - FEEDWATER-AUXILIARY FEEDWATER

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS OTHER	REQ'D	ANLYS TEST	TEST	QUAL METH	NAT FREQS	STATUS			
				RRS REF	DYN.	INPUT	FREQ	DIR		F/B	S/S	VERT	SQ	INS
				CODES		(?PA)								

3FNA*FT51A	AUX FW FLOW ROSEMOUNT 1153DD DIFF PRSSR TRANSMITR	D8300040 662 1153DD5PC	CS 00024	RH	Y	N	.40.22	N	MF	MD	38	38	60	A Y
							NS(B)-017 REV 1B							
							IEEE-323,344							
3FNA*FT51B	AUX FW FLOW ROSEMOUNT 1153DD DIFF PRSSR TRANSMITR	D8300040 662 1153DD5PC	CS 00003	RH	Y	N	.33.20	N	MF	MD	38	38	60	A Y
							NS(B)-017 REV 1B							
							IEEE-323,344							
3FNA*FT51C	AUX FW FLOW ROSEMOUNT 1153DD DIFF PRSSR TRANSMITR	D8300040 662 1153DD5PC	CS 00003	RH	Y	N	.33.20	N	MF	MD	38	38	60	A Y
							NS(B)-017 REV 1B							
							IEEE-323,344							
3FNA*FT51D	AUX FW FLOW ROSEMOUNT 1153DD DIFF PRSSR TRANSMITR	D8300040 662 1153DD5PC	CS 00024	RH	Y	N	.40.22	N	MF	MD	38	38	60	A Y
							NS(B)-017 REV 1B							
							IEEE-323,344							

LT - TRANSMITTER, LEVEL

3FNA*LT20A	DEMIN WTR STOR TK LVL ROSEMOUNT 1153DB DIFF PRSSR TRANSMITR	108025 662 1153DB5PC	ESB 00004	RH	Y	N	.20.12	N	MF	MD	50	47	50	A Y
							NS(B)-010 REV B							
							IEEE-323,344							
3FNA*LT20B	DEMIN WTR STOR TK LVL ROSEMOUNT 1153DB DIFF PRSSR TRANSMITR	108025 662 1153DB5PC	ESB 00004	RH	Y	N	.20.12	N	MF	MD	50	47	50	A Y
							NS(B)-010 REV B							
							IEEE-323,344							

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NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWL - FEEDWATER-PUMP & DRIVER OIL SYSTEMS

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

SNEC EQUIPMENT

E - EXCHANGER, HEAT

3FHL#E2A	VENDOR	ESB 00024 CF Y N .32.13 S NA NA	100	D
		20,030	NS(B)-010,REV 0B	
	MSD	041	ASME III,CL2	

3FHLW02B VENDOR ESB 00024 CF Y N .32.13
 NS(B)-010,REV 0B

MSD 041

3FHL*E3 VENDOR ESB 00024 Y N .32.13 D
MSD-D 041 NS(B)-010,REV 0B

FLT - FILTER

[illegible]

P - PUMP

3FHL*P4	MAIN LUBE OIL PUMP	ESB 00024 CF Y N .32.13	D Y
		NS(B)-010,REV 0B	
MSD-D	041	ASME III,CL3	

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SYSTEM FWL - FEEDWATER-PUMP & DRIVER OIL SYSTEMS

[illegible][illegible]

3FWL*P6A	MAIN LUBE OIL PUMP	ESB 00024 CF	Y	N	.32.13	D	Y
			NS(B)-010,REV 0B				
	HSD	041	ASME III,CL3				

3FWL*P6B	MAIN LUBF OIL PUMP	ESB 00024 CF	Y	N	.32.13	D	Y
			NS(B)-010,REV 0B				
	MSD	041	ASHE III,CL3				

PS - SWITCH,PRESSURE

3FHL*PS1078 AUX FD WTR P2L.O. SUP PRESS ESB 00021 EH Y N .32.13 D Y
NS(B)-010,REV 0B
MSD-D 041 IEEE 344

3FHL#PS114A1 AUX FD WTR P1 L.O. SUPPLY PRESS ESB 00246 EM Y N .32.13
 MSD 041 NS(B)-010,REV OB
 IEEE 344

D Y

3FHL*PS114B1 AUX FD WTR PI L.O. SUPPLY PRESS ESB 00246 EH Y N .32.13 D Y
NS(B)--010 REV 0B
MSD 041 IEEE 344

RV - VALVE, RELIEF

3FHL*RV110 AUX FD WTR P2 L.O. PP DISH RLF ESB DM Y N .32.13
 NS(B)-010 REV 0B

MSD-D 041

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REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/34

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWL - FEEDWATER-PUMP & DRIVER OIL SYSTEMS

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3FWL*RV117A	AUX FD HTR P1 L.O. PP DISH RLF	ESB	DM Y N .32.13				D
	MSD	041	NS(B)-010 REV 0B				

3FWL*RV117B	AUX FD HTR P1 L.O. PP DISH RLF	ESB	DM Y N .32.13				D
	MSD	041	NS(B)-010 REV 0B				

SOV - VALVE, SOLENOID

3FWL*SOV104	TURB TRIP & THR VLV LUBE OIL	ESB 00021	DM Y N .32.13				D Y
	MSD-D	041	NS(B)-010 REV 0B				

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REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC		RRS REF	DYN.	INPUT										
	VEND MODEL	MANUFAC MODEL		CODES		(ZPA)										

SWEC EQUIPMENT

SOV - VALVE, SOLENOID

3FWS*SOV41A1	SG FW STEP VLV	43378-1	MSV	EM NA IEEE-344	Y	N	2.8G	N	MF	MD	33+					A
3FWS*SOV41A2	SG FW STEP VLV	43378-1	MSV	EM NA IEEE-344	Y	N	2.8G	N	MF	MD	33+					A
3FWS*SOV41B1	SG FW STOP VLV	43378-1	MSV	EM NA IEEE-344	Y	N	2.8G	N	MF	MD	33+					A
3FWS*SOV41B2	SG FW STOP VLV	43378-1	MSV	EM NA IEEE-344	Y	N	2.8G	N	MF	MD	33+					A
3FWS*SOV41C1	SG FW STOP VLV	43378-1	MSV	EM NA IEEE-344	Y	N	2.8G	N	MF	MD	33+					A
3FWS*SOV41C2	SG FW STEP VLV	43378-1	MSV	EM NA IEEE-344	Y	N	2.8G	N	MF	MD	33+					A

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	MTG	SEIS	OTHER REQ'D	DYN.	INPUT	FREQ DIR
VENDOR	QUAL REPORT			RRS REF				
VEND MODEL	SPEC			CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL							

3FWS*SOV41D1	SG FW STOP VLV	43378-1	MSV	EH NA IEEE-344	Y	N	2.8G	N	HF	HD	33+	A
3FWS*SOV41D2	SG FW STOP VLV	43378-1	MSV	EH NA IEEE-344	Y	N	2.8G	N	HF	HD	33+	A

LI - INDICATOR, LEVEL

3FHS*LI503A STN GEN LVL (WIDE RANGE) CB 00004 EH D

LATER

MOV - VALVE, MOTOR OPERATED

3FMS*NOV35A	SGFW CONTROL VLV ISOL WALWORTH 228 REV 1 N5247PS 161 LIMITORQUE OPERATOR SMB-3	MSV 00041 DM Y N 3G S NA NA 33+ A Y
3FMS*NOV35B	SGFW CONTROL VLV ISOL WALWORTH 228 REV 1 N5247PS 161 LIMITORQUE OPERATOR	MSV 00041 DM Y N 3G S NA NA 33+ A Y
3FMS*NOV35C	SGFW CONTROL VLV ISOL WALWORTH 228 REV 1 N5247PS 161 LIMITORQUE OPERATOR SM	MSV 00041 DM Y N 3G S NA NA 33+ A Y

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	NAT FREQS	STATUS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR	S/S VERT SQ INS	
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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3FMS#MOV35D	SGFN CONTROL VLV ISOL	MSV 00041 DM	Y	N	3G	S	NA	NA	33+	A Y
	WALNORTH	228 REV 1	NA							
	N5247PS	161	ASME III,CL2							
	LIMITORQUE OPERATOR									

LV - VALVE, LEVEL

3FMS#LV550	SGFW CONTROL VLV BYPASS	MSV 00049	DH	Y	N	3G	S	NA	NA	33+	A
	FISHER	FQP-22-9/10A	NA								
	667NS-ET	105	ASME III,CL2								
	NAMCO LIMIT SWITCH	EA 180									

3FHS#LV560	SGFW CONTROL VLV BYPASS	MSV 00049	DH	Y	N	3G	S	NA	NA	33+	A
	FISHER	FQP-22-9/10A	NA								
	667NS-ET	185	ASME III,CL2								
	NAMCO LIMIT SWITCH	EA 180									

3FWS-LV570	SGFW CONTROL VLV BYPASS	MSV 00049 DM	Y	N	3G	S	NA	NA	33+	A
	FISHER	FQP-22-9/10A	NA							
	667NS-ET	185	ASME III,CL2							
	NAMCO LIMIT SWITCH	EA 180								

3FWS=LV580	SGFW CONTROL VLV BYPASS	HSV 00049 DM	Y	N	3G	S	NA	NA	33+	A
	FISHER	FQP-22-9/10A	NA							
	667NS-ET	185	ASME III,CL2							
	HANCO LIMIT SWITCH	EA 180								

SOV - VALVE, SOLENOID

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3FWS*SOV550      SGFW CONTROL VLV BYPASS    MSW 00050 DM   Y       N   3G         N     SF   SD             35+           A   Y
                  FISHER                    AQR-67368        NA
                                      185                IEEE,323,344,382
                  ASCO SOLENOID            NPK 8320

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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NESS SUPPLIER: WESTINGHOUSE

SYSTEM FHS - FEEDWATER - SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS		STATUS			
	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	SPEC			RRS	REF	DYN.	INPUT							
	VEND MODEL				CODES			(ZPA)							
	MANUFACTURER	MANUFAC MODEL													

3FNS*SOV560	SGFW CONTROL VLV BYPASS FISHER	AQR-67368 185	MSV 00050	DM	Y	N	3G	N	SF	SD		35+		A	Y
	ASCO SOLENOID	NPK 8320													
3FNS*SOV570	SGFW CONTROL VLV BYPASS FISHER	AQR-67638 185	MSV 00050	DM	Y	N	3G	N	SF	SD	*	35+		A	Y
	ASCO SOLENOID	NPK 8320													
3FNS*SOV580	SGFW CONTROL VLV BYPASS FISHER	AQR-67638 185	MSV 00050	DM	Y	N	3G	N	SF	SD	*	35+		A	Y
	ASCO SOLENOID	NPK 8320													

LI - INDICATOR, LEVEL

3FNS*LI504A	STM GEN LVL (WIDE RANGE) 15000, REV 2	CB 00004	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	A
	W TYPE 252,4-20 MA 246												
3FNS*LI519A	STM GEN LVL CONT. 15000, REV 2	CB 00004	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	A
	W TYPE 252,4-20 MA 246												
3FNS*LI529A	STM GEN LVL CONTROL 15000, REV 2	CB 00004	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	A
	W TYPE 252,4-20 MA 246												

HS - SWITCH, HAND

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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3FWS*HS32A3	AUX FW CONTROL	QQAAB50 392	CB	RM Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	D
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3FWS*HS32B3	AUX FW CONTROL	392	CB	RM Y N NS(B)-017 REV 1B IEEE-322		D
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CTV - VALVE, CONTAINMENT, TRIP

3FWS*CTV41A	SG FW STOP VLV ANCHOR/DARLING H8020961, REV B SKINNER/ASCO	SO E9450-1 476	MSV 00044	DM Y N NA ASME III, CL2	2.8G S NA NA	33+	A Y
-------------	---------------------------------------------------------------------	-------------------	-----------	-------------------------------	--------------	-----	-----

3FWS*CTV41B	SG FW STOP VLV ANCHOR/DARLING H8020961 REV B SKINNER/ASCO	SO E9450-1 DM 476	MSV 00044	Y N NA ASME III, CL2	2.8G		A Y
-------------	--------------------------------------------------------------------	----------------------	-----------	----------------------------	------	--	-----

3FWS*CTV41C	SG FW STOP VLV ANCHOR/DARLING H8020961 REV B SKINNER/ASCO	SO E9450-1 476	MSV 00044	DM Y N NA ASME III, CL2	2.8G S NA NA	33+	A Y
-------------	--------------------------------------------------------------------	-------------------	-----------	-------------------------------	--------------	-----	-----

3FWS*CTV41D	SG FW STOP VLV ANCHOR/DARLING H8020961 REV B SKINNER/ASCO	SO E9450-1 476	MSV 00044	DM Y N NA ASME III, CL2	2.8G S NA NA	33+	A Y
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SOV - VALVE, SOLENOID

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FNS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG RRS REF CODES	SEIS DYN.	OTHER INPUT (ZPA)	REQ'D ANLYS	TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3FNS*SOV41A3	SG FW STOP VLV	43378-1 476	MSV	EH NA IEEE-344	Y	N	2.6	N	MF MD	33+ A
3FNS*SOV41A4	SG FW STOP VLV	43378-1 476	MSV	EH NA IEEE-344	Y	N	2.6G	N	MF MD	33+ A
3FNS*SOV41B4	SG FW STOP VLV	43378-1 476	MSV	EH NA IEEE-344	Y	N	2.6G	N	MF MD	33+ A
3FNS*SOV41C3	SG FW STOP VLV	43378-1 476	MSV	EH NA IEEE-344	Y	N	2.6G	N	MF MD	33+ A
3FNS*SOV41C4	SG FW STOP VLV	43378-1 476	MSV	EH NA IEEE-344	Y	N	2.6G	N	MF MD	33+ A
3FNS*SOV41D3	SG FW STOP VLV	43378-1 476	MSV	EH NA IEEE-344	Y	N	2.6G	N	MF MD	33+ A
3FNS*SOV41D4	SG FW STOP VLV	43378-1 476	MSV	EH NA IEEE-344	Y	N	2.6G	N	MF MD	33+ A

FT - TRANSMITTER, FLOW

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS OTHER	REQ'D	ANLYS TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS	
VEND MODEL	SPEC	RRS REF	DYN.	INPUT	FREQ DIR										
MANUFACTURER	MANUFAC MODEL	CODES		(ZPA)											
3FWS-FT510	STM GEN LVL CONTROL ROSEMOUNT 1153DB DIFF PRSSR TRANSMITR	108025 662 1153DB6PC	TB	00043	RH	Y	N	.30.20	N	HF	MD	50	47	50	A Y
								NS(B)-011 REV B IEEE-323,344							
3FWS-FT511	STM GEN LVL CONTROL ROSEMOUNT 1153DB DIFF PRSSR TRANSMITR	108025 662 1153DB6PC	TB	00043	RH	Y	N	.30.20	N	HF	MD	50	47	50	A Y
								NS(B)-011 REV B IEEE-323,344							
3FWS-FT520	STM GEN LVL CONTROL ROSEMOUNT 1153DB DIFF PRSSR TRANSMITR	108025 662 1153DB6PC	TB	00043	RH	Y	N	.30.20	N	HF	MD	50	47	50	A Y
								NS(B)-011 REV B IEEE-323,344							
3FWS-FT521	STM GEN LVL CONTROL ROSEMOUNT 1153DB DIFF PRSSR TRANSMITR	108025 662 1153DB6PC	TB	00043	RH	Y	N	.30.20	N	HF	MD	50	47	50	A Y
								NS(B)-011 REV B IEEE-323,344							
3FWS-FT530	STM GEN LVL CONTROL ROSEMOUNT 1153DB DIFF PRSSR TRANSMITR	108025 662 1153DB6PC	TB	00043	RH	Y	N	.30.20	N	HF	MD	50	47	50	A Y
								NS(B)-011 REV B IEEE-323,344							
3FWS-FT531	STM GEN LVL CONTROL ROSEMOUNT 1153DB DIFF PRESSURE TRNSHT	108025 662 1153DB6PC	TB	00043	RH	Y	N	.30.20	N	HF	MD	50	47	50	A Y
								NS(B)-011 REV B IEEE-323,344							
3FWS-FT540	STM GEN LVL CONTROL ROSEMOUNT 1153DB DIFF PRSSR TRANSMITR	108025 662 1153DB6PC	TB	00043	RH	Y	N	.30.20	N	HF	MD	50	47	50	A Y
								NS(B)-011 REV B IEEE-323,344							

REPORT NO. MSSQTL

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

DOCKET NO. 50-423

SYSTEM FNS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

3FWS-FT541	STM GEN LVL CONTROL	TB 00043 RM Y N .30.20 N MF MD 50 47 50 A Y
	ROSEMOUNT 108025	NS(B)-011 REV B
	1153DB 60d	IEEE-323,344
	DIFF PRESSURE TRNSMT 1153DB6PC	

LT - TRANSMITTER, LEVEL

[illegible][illegible][illegible][illegible]

NSSS EQUIPMENT

FCV - VALVE, CONTROL, FLOW, SELF ACTUATED

3FNS*FCV510	STM GEN LVL CONTROL	MSV 00041 DH	D Y
	WESTINGHOUSE NSSS		
	001		
	EA-170		
	NAHCO		

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV NTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC	RRS REF	DYN. INPUT	FREQ DIR						
	VEND MODEL	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)						

3FWS*FCV520	STM GEN LVL CONTROL		MSV 00041 DM								D Y
	WESTINGHOUSE NSSS	001									

NAMCO EA-170

3FWS*FCV530	STM GEN LVL CONTROL		MSV 00041 DM								D Y
	WESTINGHOUSE NSSS	001									

NAMCO EA-170

3FWS*FCV540	STM GEN LVL CONTROL		MSV 00041 DM								D Y
	WESTINGHOUSE NSSS	001									

NAMCO EA-170

FE - FLOW ELEMENT

3FWS*FE510	STM GEN LVL CONTROL		TB 00051 DM								D
		001									

3FWS*FE530	STM GEN LVL CONTROL		TB 00051 DM								D
		001									

3FWS*FE540	STM GEN LVL CONTROL		TB 00051 DM								D
		001									

LI - INDICATOR, LEVEL

REPORT NO. HSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR
VENDGR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR
VEND MODEL	SPEC	CODEN	(ZPA)	
MANUFACTURER	MANUFAC MODEL			

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3FWS=LI501 STM GEN LVL (WIDE RANGE) CB 00040 EM 001

3FWS*LI501A STM GEN LVL (WIDE RANGE) CB 00004 EM D
001

3FWS*LI502 STM GEN LVL (WIDE RANGE) CB 00048 EH D

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3FMS*LI502A      STH GEN LVL (WIDE RANGE)      CB 00004 CH  Y    N  .40.15 N    HF  MD    NA    NA    NA    A
                  WESTINGHOUSE                15880,REV 2      NS(B)017 REV1B
                  *                            001                IEEE 323
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3FMS*LI503 STM GEN LVL (HIDE RANGE) CB 00048 EH 0
001

3FWS*LI504 STM GEN LVL (WIDE RANGE) CB 00048 EM D

001

3FHS*LI517 STM GEN LVL PROT SET IV CB 00048 EM 001

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

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SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	QUAL METH --	NAT FREQS ----	STATUS
	VENDOR	SPEC	RRS REF	DYN. INPUT	FREQ DIR	F/B	S/S	VERT SQ INS
	VEND MODEL	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)			

3FWS*LI518	STM GEN LVL PROT SET III		CB 00048 EM					D
	001							
3FWS*LI519	STM GEN LVL CONTROL		CB 00048 EM					D
	001							
3FWS*LI527	STM GEN LVL PROT SET IV		CB 00048 EM					D
	001							
3FWS*LI528	STM GEN LVL PROT SET III		CB 00048 EM					D
	001							
3FWS*LI529	STM GEN LVL CONTROL		CB 00048 EM					D
	001							
3FWS*LI537	STM GEN LVL PROT SET IV		CB 00048 EM					D
	001							
3FWS*LI537A	STM GEN LVL PROT SET IV		CB 00004 EM					D
	001							

REPORT NO. PSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FNS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	VENDOR	MANUFACTURER	QUAL REPORT	SEIS OTHER REQ'D	ANLYS TEST	FREQ DIR	F/B	S/S	VERT	SQ	INS	STATUS
				SPEC	LOG ELEV MTG	RRS REF	DYN. INPUT						
				MANUFAC MODEL	CODES		(ZPA)						
3FNS*LI538	STM GEN LVL PROT SET III				CB 00048 EH								D
				001									
3FNS*LI539	STM GEN LVL CONTROL				CB 00048 EH								D
				001									
3FNS*LI547	STM GEN LVL PROT SET IV				CB 00048 EH								D
				001									
3FNS*LI548	STM GEN LVL PROT SET III				CB 00048 EH								D
				001									
3FNS*LI548A	STM GEN LVL PROT SET III				CB 00004 EH								D
				001									
3FNS*LI549	STM GEN LVL CONTROL				CB 00048 EH								D
				001									

LT - TRANSMITTER, LEVEL

3FNS*LI501 STM GEN LVL (WIDE RANGE)
M-001
001

CS 00024 EH Y N 2.1 S NA NA * 33+ A Y

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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FHS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3FHS*LT502	STM GEN LVL (WIDE RANGE) W-001 001		CS 00024 EM	Y N 2.1	S NA NA *	33+	A Y
3FHS*LT503	STM GEN LVL (WIDE RANGE) W-001 001		CS 00024 EM	Y N 2.1	S NA NA *	33+	A Y
3FHS*LT504	STM GEN LVL (WIDE RANGE) W-001 001		CS 00024 EM	Y N 2.1	S NA NA *	33+	A Y
3FHS*LT517	STM GEN LVL PROT SET IV 001		CS 00024 EM				D Y
3FHS*LT518	STM GEN LVL PROT SET III 001		CS 00024 EM				D Y
3FHS*LT519	STM GEN LVL CONTROL 001		CS 00024 EM				D Y
3FHS*LT5C7	STM GEN LVL PROT SET IV 001		CS 00024 EM				D Y

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS	
	VENDOR	QUAL REPORT			RRS	REF	DYN.	INPUT	FREQ		DIR						
	VEND MODEL	SPEC			CODES		(ZPA)										
	MANUFACTURER	MANUFAC MODEL															

1. 凡在本行开立存款账户并持有本行借记卡或信用卡的客户，均可申请开通本行网上银行服务。

3FWS*LT528	STM GEN LVL PROT SET III	CS 00024 EM	D Y
	001		
3FWS*LT529	STM GEN LVL CONTROL	CS 00024 EM	D Y
	001		
3FWS*LT537	STM GEN LVL PROT SET IV	CS 00024 EM	D Y
	001		
3FWS*LT538	STM GEN LVL PROT SET III	CS 00024 EM	D Y
	001		
3FWS*LT539	STM GEN LVL CONT	CS 00024 EM	D Y
	001		
3FWS*LT547	STM GEN LVL PROT SET IV	CS 00024 EM	D Y
	001		
3FWS*LT548	STM GEN LVL PROT SET III	CS 00024 EM	D Y
	001		

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM FWS - FEEDWATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN.	INPUT	FREQ DIR
VENDOR	QUAL REPORT	RRS REF				
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

3FMSxLTS49 STH GEN LVL CONTROL CS 00024 EM D Y

001

SOV - VALVE, SOLENOID

3FWS*SOV510	STM GEN LVL CONTROL WESTINGHOUSE	W-001 001	MSV 00044 EM Y N 2.1 S NA NA * 33+	IEEE-323,344	Y
	ASCO				
3FWS*SOV520	STM GEN LVL CONTROL WESTINGHOUSE	W-001 001	MSV 00044 EM Y N 2.1 S NA NA * 33+	IEEE-323,344	Y
	ASCO				
3FWS*SOV530	STM GEN LVL CONTROL WESTINGHOUSE	W-001 001	MSV 00044 EM Y N 2.1 S NA NA * 33+	IEEE-323,344	Y
	ASCO				
3FWS*SOV540	STM GEN LVL CONTROL WESTINGHOUSE	W-001 001	MSV 00044 EM Y N 2.1 S NA NA * 33+	IEEE-323,344	Y
	ASCO				

3GSN#SV8033	PRZ RLF TK M2 SPLY ISOL	AD 00004 EM Y N 36 N SF SD 35+ A Y
	FISHER	AQR-67368 NA
		185 IEEE,323,344,302
	ASCO SOLENOID	NPK 8320

3GNS*SOV78B	GAS WASTE TO UNIT 1 STACK ISL	AB 00090 DM Y N .56.20 N SF SD 35+ A
	AMERICAN WARNING AQR67638	NS(B)-007,REV.0B
	NPK8320A182E 594	IEEE-323,344,382,627
	ASCO SOLENOID NPK8320E	

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SYSTEM HCS - HYDROGEN RECOMBINER SYSTEM (POST DBA)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN. INPUT	FREQ DIR	NAT FREQS	VERT SQ INS
VENDOR	QUAL REPORT	RRS REF					
VEND MODEL	SPEC	CODES		(ZPA)			
MANUFACTURER	MANUFAC MODEL						

SNEC EQUIPMENT

AI - INDICATOR, ANALYZER

3HCS*AI2A1	H2 ANALYZER ROCKWELL INTERNATIONAL	CB	2179-NS(T)-077 ASME III,CL2	1	D
	DELPHI	075 N/A			
3HCS*AI2A2	H2 ANALYZER ROCKWELL INTERNATIONAL	HRB	2179-NS(T)-077 ASME III,CL2	1	D
	DELPHI	075 N/A			
3HCS*AI2A3	H2 ANALYZER	HRB	2179-NS(T)-077 ASME III,CL2	1	D
		075			
3HCS*AI2B1	H2 ANALYZER ROCKWELL INTERNATIONAL	HRB	12179-NS(T)-077 ASME III,CL2		D
	DELPHI	075 N/A			
3HCS*AI2B2	H2 ANALYZER ROCKWELL INTERNATIONAL	HRB	12179-NS(T)-077 ASME III,CL2		D
	DELPHI	075 N/A			
3HCS*AI2B3	H2 ANALYZER	CB	12179-NS(T)-077 ASME III,CL2		D
		075			

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HCS - HYDROGEN RECOMBINER SYSTEM (POST DBA)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

AS - SWITCH, ANALYZER

3HCS#AS2A	H2 ANALYZER ROCKWELL INTERNATIONAL	HRB	12179-NS(T)-077 ASME III,CL2	D
	075 DELPHI N/A			
3HCS#AS2B	H2 ANALYZER WESTINGHOUSE	HRB	EM 12179-NS(T)-077 ASME	D
	* 075 DELPHI N/A			

FE - FLOW ELEMENT

3HCS*FE1A	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL 075	HRB	12179-NS(T)-077 ASME III,CL2	D
3HCS*FE1B	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL 075	HRB	12179-NS(T)-077 ASME III,CL2	D

FI - INDICATOR, FLOW

3HCS*FILA RADIANT HTR FLOW & TEMP IN HRB 12179-NS(T)-077 D
ROCKWELL INTERNATIONAL ASHE III,CL2
075

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PLANT NAME HILLSTONE UNIT 3
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HCS - HYDROGEN RECOMBINER SYSTEM (POST DBA)

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS OTHER	REQ'D	ANLYS TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC												
	VEND MODEL	SPEC												
	MANUFACTURER	MANUFAC MODEL												

3HCS*FI1B	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL	075	HRB				12179-NS(T)-077							D
							ASME III,CL2							

3HCS*FI2A	H2 ANALYZER ROCKWELL INTERNATIONAL	075	HRB				12179-NS(T)-077							D
	DELPHI	N/A					ASME III,CL2							

3HCS*FI2B	H2 ANALYZER ROCKWELL INTERNATIONAL	075	HRB				12179-NS(T)-077							D
	DELPHI	N/A					ASME III,CL2							

3HCS*FI3A	0% H2 CALIB GAS ROCKWELL INTERNATIONAL	075	HRB				12179-NS(T)-077							D
	DELPHI	N/A					ASME III,CL2							

3HCS*FI3B	0% H2 CALIB GAS	075	HRB				12179-NS(T)-077							D
							ASME III,CL2							

FS - SWITCH, FLOW

3HCS*FS1A	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL	075	HRB				12179-NS(T)-077							D
							ASME III,CL2							

3HCS*FS1B	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL	075	HRB				12179-NS(T)-077							D
							ASME III,CL2							

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HCS - HYDROGEN RECOMBINER SYSTEM (POST DBA)

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	NAT FREQS	STATUS
	VENDOR	SPEC	RRS REF	DYN. INPUT	FREQ DIR	F/B S/S VERT SQ INS	
	VEND MODEL	SPEC	RRS REF	DYN. INPUT	FREQ DIR	F/B S/S VERT SQ INS	
	MANUFACTURER	MANUFAC MODEL	RRS REF	DYN. INPUT	FREQ DIR	F/B S/S VERT SQ INS	

FT - TRANSMITTER, FLOW

3HCS*FT1A	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
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3HCS*FT1B	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
-----------	------------------------------------------------------	-----	-----	---------------------------------	--	--	---

PI - INDICATOR, PRESSURE

3HCS*PI1A	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
-----------	------------------------------------------------------	-----	-----	---------------------------------	--	--	---

3HCS*PI1B	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
-----------	------------------------------------------------------	-----	-----	---------------------------------	--	--	---

3HCS*PI2A	AIR BLAST HX PRESS OUT ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
-----------	--------------------------------------------------	-----	-----	---------------------------------	--	--	---

3HCS*PI2B	AIR BLAST HX PRESS OUT ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HCS - HYDROGEN RECOMBINER SYSTEM (POST DBA)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN. INPUT	FREQ DIR	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF						
VEND MODEL	SPEC	CODES	(ZPA)					
MANUFACTURER	MANUFAC MODEL							

PS - SWITCH, PRESSURE

3HCS*PS1A	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL	HRB	12179-NS(T)-077 ASME III,CL2
	075 DELPHI N/A		
3HCS*PS1B	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL	HRB	12179-NS(T)-077 ASME III,CL2
	075 DELPHI N/A		
3HCS*PS2A	H2 ANALYZER ROCKWELL INTERNATIONAL	HRB	12179-NS(T)-077 ASME III,CL2
	075 DELPHI N/A		
3HCS*PS2B	H2 ANALYZER ROCKWELL INTERNATIONAL	HRB	12179-NS(T)-077 ASME III,CL2
	075 DELPHI N/A		

PT - TRANSMITTER, PRESSURE

3HCS*PT1A	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL 075	HRB	12179-NS(T)-077 ASME III,CL2	D
3HCS*PT1B	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL 075	HRB	12179-NS(T)-077 ASME III,CL2	D

.....

3HCS*SOV10A	4% H2 CALIB GAS	HRB	
	ROCKWELL INTERNATIONAL		12179-NS(T)-077
		075	ASME III,CL2
	DELPHI	N/A	

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UTILITY MUSCO

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HCS - HYDROGEN RECOMBINER SYSTEM (POST DBA)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HCS*SOV10B	4% H2 CALIB GAS ROCKWELL INTERNATIONAL DELPHI	075 N/A	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*SOV11A	0% H2 CALIB GAS ROCKWELL INTERNATIONAL DELPHI	075 N/A	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*SOV11B	0% H2 CALIB GAS ROCKWELL INTERNATIONAL DELPHI	075 N/A	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*SOV6A	BLOWER OUTLET ROCKWELL INTERNATIONAL DELPHI	075 N/A	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*SOV6B	BLOWER OUTLET ROCKWELL INTERNATIONAL DELPHI	075 N/A	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*SOV7A	DIVERT VALVE ROCKWELL INTERNATIONAL DELPHI	075 N/A	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*SOV7B	DIVERT VALVE ROCKWELL INTERNATIONAL DELPHI	075 N/A	HRB	12179-NS(T)-077 ASME III,CL2			D

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UTILITY MUSCO

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HCS - HYDROGEN RECOMBINER SYSTEM (POST DBA)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HCS*SOV8A	H2 MON ROCKWELL INTERNATIONAL DELPHI	075 NA	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*SOV8B	H2 MON ROCKWELL INTERNATIONAL DELPHI	075 N/A	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*SOV9A	0.5% H2 CALIB GAS ROCKWELL INTERNATIONAL DELPHI	075 N/A	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*SOV9B	0.5% H2 CALIB GAS ROCKWELL INTERNATIONAL DELPHI	075 N/A	HRB	12179-NS(T)-077 ASME III,CL2			D
TE - TEMPERATURE ELEMENT, PRIMARY							
3HCS*TE1A	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE1B	RADIANT HTR FLOW & TEMP IN ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE3A	RADIANT HTR INNER TEMP ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D

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PLANT NAME HILLSTONE UNIT 3
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HCS - HYDROGEN RECOMBINER SYSTEM (POST DBA)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLOG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HCS*TE3B	RADIANT HTR INNER TEMP ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE4A1	RADIANT HTR TEMP OUT ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE4A2	RADIANT HTR TEMP OUT ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE4B1	RADIANT HTR TEMP OUT ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE4B2	RADIANT HTR TEMP OUT ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE5A1	REACTION CHAMBER TEMP ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE5A2	REACTION CHAMBER TEMP ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D

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SYSTEM HCS - HYDROGEN RECOMBINER SYSTEM (POST DBA)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3HCS*TE5B1	REACTION CHAMBER TEMP ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE5B2	REACTION CHAMBER TEMP ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE6A	REACTION CHAMBER TEMP OUT ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE6B	REACTION CHAMBER TEMP OUT ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE7A	H2 RECOMB TEMP OUT ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
3HCS*TE7B	H2 RECOMB TEMP OUT ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D

TIS - SWITCH, INDICATING, TEMPERATURE

3HCS*TIS6A	REACTION CHAMBER TEMP OUT ROCKWELL INTERNATIONAL	075	HRB	12179-NS(T)-077 ASME III,CL2			D
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SYSTEM HCS - HYDROGEN RECOMBINER SYSTEM (POST DBA)

[illegible]

● 本報記者採訪時，曾與多位在「新時代」工作過的人談話，他們對該報的評價不一。有人認為該報是「偽民主」，有人認為該報是「真民主」。但有一點是肯定的，那就是該報在中國大陸的運作，確實與西方民主國家的運作方式大不相同。

3HCS*TIS&B REACTION CHAMBER TEMP OUT HRB 12179-NS(T)-077
ROCKWELL INTERNATIONAL ASME III,CL2
075

3HCS*TIS7A	H2 RECOMB TEMP OUT	HRB	12179-NS(T)-077
	ROCKWELL INTERNATIONAL		ASME III,CL2
	075		

3HCS*YIS7B H2 RECOMB TEMP OUT HRB 12179-NS(T)-077
ROCKWELL INTERNATIONAL ASME III,CL2
075

TS - SWITCH, TEMPERATURE

3HCS*TS1A	RADIANT HTR FLOW & TEMP IN	HRB	12179-NS(T)-077	0
	075		ASME III,CL2	

3HCS*TS1B RADIANT HTR FLOW & TEMP IN P.R.B. D
ROCKWELL INTERNATIONAL 12179-NS(T)-077
075 ASME III,CL2

3HCS*TS3A	RADIANT HTR INNER TEMP	HRB		
	ROCKWELL INTERNATIONAL		12179-NS(T)-077	
	075		ASME III,CL2	

3HCS*TS33	RADIANT HTR INNER TEMP	HRB	12179-NS(T)-077
	ROCKWELL INTERNATIONAL		ASME III,CL2
	075		

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BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 1 11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HCS - HYDROGEN RECOMBINER SYSTEM (POST DBA)

EQUIPMENT ID	DESCRIPTION	BLOG ELEV MTG	SEIS OTHER REQ'D	DYN.	INPUT	FREQ D R
VENDOR	QUAL REPORT	RRS REF				
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

AR - RECORDER, ANALYZER

3HCS#AR2A	H2 ANALYZER	CB	
	FOXBORO		12179-NS(T)-077
	392		ASME III,CL2
	ELECTRONIC RECORDERS N-2265-16		

AY - ANALYSER CONVERTER

3HCS*AY2A2	H2 ANALYZER FOXBORO N-2AI-I2V I/E CONVERTER	QOAB35 392 N-2AI-I2V	HRB	RH	Y	N	N	MF	MD	NA	NA	NA	C
3HCS*AY2B2	H2 ANALYZER FOXBORO N-2AI-I2V I/E CONVERTER	QOAB35 392 N-2AI-I2V	CB	RH	Y	N	N	HF	MD	NA	NA	NA	C

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HTS - HEAT TRACING - SYSTEM

EQUIPMENT ID	DESCRIPTION	VENDOR	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER REQ'D	ANLYS	TEST TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VEND MODEL	SPEC					DYN. INPUT								
	MANUFACTUREP	MANUFAC MODEL					(ZPA)								

SMEC EQUIPMENT

X - TRANSFORMER

3HTS*XF1A	HT TRACING XFMR PWR CONV PRODUCT	WYLE 45999-1 608	FB 00024	CH	Y	N	.22.15	N	MF	MD	18	22	18	A
							NS(B)-074,REV1B							
							IEEE 344							
3HTS*XF1B	HT TRACING XFMR PWR CONV PRODUCT	WYLE 45999-1 608	FB 00024	CH	Y	N	.22.15	N	MF	MD	18	22	18	A
							NS(B)-074,REV1B							
							IEEE 344							
3HTS*XF1C	HT TRACING AFMR PWR CONV PRODUCT	WYLE 45999-1 608	FB 00024	CH	Y	N	.22.15	N	MF	MD	18	22	18	A
							NS(B)-074,REV1B							
							IEEE 344							
3HTS*XF2A	HT TRACING XFMR PWR CONV PRODUCT	WYLE 45999-1 608	FB 00024	CH	Y	N	.22.15	N	MF	MD	18	22	18	A
							NS(B)-074,REV1B							
							IEEE 344							
3HTS*XF2B	HT TRACING XFMR PWR CONV PRODUCT	WYLE 45999-1 608	FB 00024	CH	Y	N	.22.15	N	MF	MD	18	22	18	A
							NS(B)-074,REV1B							
							IEEE 344							
3HTS*XF2C	HT TRACING XFMR PWR CONV PRODUCT	WYLE 45999-1 608	FB 00024	CH	Y	N	.22.15	N	MF	MD	18	22	18	A
							NS(B)-074,REV1B							
							IEEE 344							

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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: NESTINGHOUSE

SYSTEM HTS - HEAT TRACING - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

XA - TRANSFORMER AUXILIARIES

3HTS*XA3A	HT TRACING XFMR PWR CONVRSN PRODUCTS WYLE 45999-1 608 PWR CONVRSN PRODUCTS 30KVA	HRB 00038	CW	Y	N	.23.13	N	MF	MD	18	22	18	A
3HTS*XA3B	HT TRACING XFMR PWR CONVRSN PRODUCTS WYLE 45999-1 608 PWR CONVRSN PRODUCTS 30KVA	HRB 00038	CW	Y	N	.23.13	N	MF	MD	18	22	18	A
3HTS*XA3C	HT TRACING XFMR PWR CONVRSN PRODUCTS WYLE 45999-1 608 PWR CONVRSN PRODUCTS 30KVA	HRB 00038	CW	Y	N	.23.13	N	MF	MD	18	22	18	A
3HTS*XA4A	HT TRACING XFMR PWR CONVRSN PRODUCTS WYLE 45999-1 608 PWR CONVRSN PRODUCTS 30KVA		NA	Y	N	NA	N	MF	MD	18	22	18	A
3HTS*XA4B	HT TRACING XFMR PWR CONVRSN PRODUCTS WYLE 45999-1 608 PWR CONVRSN PRODUCTS 30KVA		NA	Y	N	NA	N	MF	MD	18	22	18	A
3HTS*XA4C	HT TRACING XFMR PWR CONVRSN PRODUCTS WYLE 45999-1 608 PWR CONVRSN PRODUCTS 30KVA		NA	Y	N	NA	N	MF	MD	18	22	18	A

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS	
	DESCRIPTION		BLDG ELEV	MTG	SEIS	OTHER REQ'D	ANLYS TEST	TEST	F/B	S/S	VERT	SQ INS
	VENDOR	QUAL REPORT			RRS REF	DYN. INPUT						
	VEND MODEL	SPEC			CODES	(ZPA)						
	MANUFACTURER	MANUFAC MODEL										

SHEC EQUIPMENT

DMP - DAMPER

3HVC*DMP122	DAMPER				Y	N		S	NA	NA	33+	NA	NA	Y
	NVC-42	90267-1												
3HVC*DMP123	DAMPER				Y	N		S	NA	NA	33+	NA	NA	Y
	NVC-42	90267-1												
3HVC*DMP128	DAMPER				Y	N		S	NA	NA	33+	NA	NA	Y
	NVC-42	90267-1												

FLT - FILTER

3HVC*FLT1A	CONTROL ROOM AIR FILTER		CB	00064	CF	Y	N	.50.15	S	NA	NA	10.6	25+	25+	A	Y
	CVI	B253-9907-1														
		065														
	FILTER	N/A														
3HVC*FLT1B	CONTROL ROOM AIR FILTER		CB	00064	CF	Y	N	.50.15	S	NA	NA	10.6	25+	25+	A	Y
	CVI	B253-9907-1														
		065														
	FILTER	N/A														

FN - FAN

REPORT NO. NSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVC*FN3A	3. SNCR RM. EXH FAN BUFFALO FORGE A1.5 WESTINGHOUSE	82325005-45 140 1.5 H.P.	CB 00004 HM	Y N .30.15 S	NA NA	33+ 33+ 33+	A Y
				NS(B)-017-REV.1B AMCA STD/IEEE 323,344/NUREG-0508			
3HVC*FN3B	N. SNCR RM. EXH FAN BUFFALO FORGE A1.5 WESTINGHOUSE	82325005-45 140 1.5 H.P.	CB 00004 HM	Y N .30.15 S	NA NA	33+ 33+ 33+	A Y
				NS(B)-017-REV.1B AMCA STD/IEEE 323,344/NUREG-0508			
FN	- FAN						
3HVC*FN1A	CNTL RM. EMER. AIR SUP. FAN BUFFALO FORGE 5E BLOWER WESTINGHOUSE	82325472-500 141 7.5 H.P.	CB 00064 RM	Y N .50.15 Y	NA NA	20+ 20+ 20+	A Y
				NS(B)-017-REV.1B AMCA STD/IEEE 323,324/NUREG-0508			
3HVC*FN1B	CNTL RM. EMER. AIR SUP. FAN BUFFALO FORGE 5E BLOWER WESTINGHOUSE	82325472-500 141 7.5 H.P.	CB 00064 RM	Y N .50.15 Y	NA NA	20+ 20+ 20+	A Y
				NS(B)-017-REV.1B AMCA STD/IEEE 323,324/NUREG-0508			
3HVC*FN2A	CHLR EQPT RM SPLY VENT. FAN BUFFALO FORGE 300 BL WESTINGHOUSE	82325472-500 141 1.5 H.P.	CB 00064 RM	Y N .50.15 Y	NA NA	20+ 20+ 20+	A Y
				NS(B)-017-REV.1B AMCA STD/IEEE 323,324/NUREG-0508			
3HVC*FN2B	*CH EQPT RM SPLY FAN BUFFALO FORGE 300 BL WESTINGHOUSE	82325472-500 141 1.5 H.P.	CB 00064 RM	Y N .50.15 Y	NA NA	20+ 20+ 20+	A Y
				NS(B)-017-REV.1B AMCA STD/IEEE 323,324/NUREG-0508			
3HVC*FN7A	CH EQUIP ROOM EXH. FAN BUFFALO FORGE 300 BL WESTINGHOUSE	82325472-500 141 1 H.P.	CB 00064 RM	Y N .50.15 Y	NA NA	20+ 20+ 20+	A Y
				NS(B)-C17-REV.1B AMCA STD/IEEE 323,324/NUREG-0508.			

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL B'LG OR AREA

[illegible]

1. 本行在 2019 年 12 月 31 日及 2018 年 12 月 31 日，均无因提供担保而形成的或有负债。

3HVC*FN7B	CH EQUIP ROOM EXH. FAN	CB 00064 RM	Y	N	.50.15	Y	NA	NA	20+	20+	20+	A	Y
	BUFFALO FORGE	02325472-500	NS(B)-017-REV.1B										
	300 BL	141	ANCA STD/IEEE 323,324/NUREG-0500										
	WESTINGHOUSE	1 H.P.											

3HVC*FN9A	BAT RM 1 VENT EXH. FAN	CB 00004 RM Y N .25.15 Y NA NA 20+ 20+ 20+ A Y
	BUFFALO FORGE	62325472-500 NS(B)-017-REV.1B
	21MW	141 AMCA STD/IEEE 323,324/NUREG-0500
	WESTINGHOUSE	0.5 H.P.

3HVC*FN9B	BAT RM 2 VENT EXH. FAN	CB 00004 RH	Y	N	.25.15	Y	NA	NA	20+	20+	20+	A	Y
	BUFFALO FORGE	82325472-500	NS(B)-017-REV.1B										
	245BL	141	ANCA STD/IEEE 323,324/NUREG-0506										
	WESTINGHOUSE	0.5 H.P.											

3HVC*FN9C	BAT RM 3 VENT EXH. FAN	CB 00004 RM Y N .25.15 Y NA NA 20+ 20+ 20+ A Y
	BUFFALO FORGE	82325472-500 NS(B)-017-REV.1B
	21MM	141 AHCA STD/IEEE 323,324/NUREG-0500
	WESTINGHOUSE	0.5 H.P.

3HVC*FN9D	BAT RM 4 VENT EXH. FAN	CB 00004 RM	Y	N	.25.15	Y	NA	NA	20+	20+	20+	A	Y
	BUFFALO FORGE	82325472-500	NS(B)-017-REV.1B										
	245BL	141	AMCA STD/IEEE 323,324/NUREG-0586										
	WESTINGHOUSE	0.5 H.P.											

3HVC*FN9E	BAT RH 5 VENT EXH. FAN	CB 00004 RH Y N .25.15 Y NA NA 20+ 20+ 20+ A Y
	BUFFALO FORGE 02325472-500	NS(B)-017-REV.1B
	141	AMCA STD/IEEE 323,324/NHREG-0568
	WESTINGHOUSE 0.5 H.P.	

AOV - VALVE, AIR OPERATED

[illegible]

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3HVC*AOV21	CONT RH VENT OUT ISOL VLV HENRY PRATT NRS BETTIS	D-0054-2 339	CB 00064 DM Y N 3G	NA ASME III,CL3	S NA NA	33 +	A Y
3HVC*AOV22	CONT RH VENT OUT ISOL VLV HENRY PRATT NRS BETTIS	D-0054-1 339	CB 00064 DM Y N 3G	NA ASME III,CL3	S NA NA	33+	A Y
3HVC*AOV23	CONT RH VENT OUT ISOL VLV HENRY PRATT NRS BETTIS	D-0054-1 339	CB 00064 DM Y N 3G	NA ASME III,CL3	S NA NA	33+	A Y
3HVC*AOV25	CONT RH VENT INL ISOL VLV HENRY PRATT NRS BETTIS	D-0054-1 339	CB 00064 DM Y N 3G	NA ASME III,CL3	S NA NA	33+	A Y
3HVC*AOV26	CONT RH VENT INL ISOL VLV HENRY PRATT NRS BETTIS	D-0054-1 339	CB 00064 DM Y N 3G	NA ASME III,CL3	S NA NA	33+	A Y

TC - CONTROLLER, TEMPERATURE

3HVC*TC166A	CONT RH TEMP CONT FOXBORO N-2AC-A5 PID CONTROLLER	Q0AAB42 392 N-2AC-A5	CB	RH Y N NS(B)-017 REV 1B IEEE-322	N MF MD NA NA NA	D
3HVC*TC166B	CONT RH TEMP CONT FOXBORO N-2AC-A5 PID CONTROLLER	Q0AAB42 392 N-2AC-A5	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N MF MD NA NA NA	D

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV NTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

1. 凡在本市行政区域内从事经营活动的个体工商户、企业法人、其他经济组织（以下简称“经营者”），均应当遵守本条例。

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3HVC*TIC1750      INSTR RK RM TEMP CNTRL      CB      PM      Y      N      .40.15      D
                  FOXBORO                      FOXBORO DC391      NS(B)-017 REV 1B
                  N-250HM+M2NH-F              392              IEEE 323
                  ELEC DISPLAY STATION N-250HM+M2NH-F

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3HVC*TIC209A	SHGR RNS TEMP CNTRL	CB	RH	Y	N	N	N	MF	MD	NA	NA	NA	A
	FOXBORO	Q0AAB67	NS(B)-017 REV 1B										
	N-250HH+M2NH-F	392	IEEE 344,323										
	ELEC DISPL STATIONS	N-250HH+M2NH-F											

3HVC*TIC209B	SWGR RHS TEMP CNTRL	CB	RM	Y	N	N	N	MF	MD	NA	NA	NA	A
	FOXBORO	QQAAB67	NS(B)-017 REV 1F										
	N-250HN+M2NH-F	392	IEEE 344,323										
	ELEC DISPL STATIONS	N-250HN+M2NH-F											

TS - SWITCH, TEMPERATURE

3HVC*TS209A1	SHGR RMS TEMP CNTRL	CB	RM	Y	N	N	N	MF	MD	NA	NA	NA	C
	FOXBCRO	QQAAB33	NS(B)-017 REV 1B										
	N-2AP+ALM-AR	392	IEEE 344,323										
	SIGNAL BISTABLES	N-2AP+ALM-AR											

3HVC*TS209A2	SNCR RMS TEMP CNTRL	CB	RM	Y	N	N	N	HF	MD	NA	NA	NA	C
	FOXBORO	QQAAB33	NS(B)-017 REV 1B										
	N-2AP+ALM-AR	392	IEEE 344,323										
	SIGNAL BISTABLES	N-2AP+ALM-AR											

3HVC*TS209B1	SKGR ROOMS TEMP CNTL	CB	RH	Y	N	N	N	MF	MD	NA	NA	NA	C
	FOXBORO	Q0AA633	NS(B)-017 REV 1B										
	N-2AP+ALM-AR	392	IEEE 344,323										
	SIGNAL DISTABLES	N-2AP+ALM-AR											

3HVC*TS209B2	SNCR RNS TEMP CNTRL	CB	RM	Y	N	N	N	MF	MD	NA	NA	NA	C
	FOXBORO	Q0AAB33	NS(B)-017 REV 1B										
	N-2AP+ALM-AR	392	IEEE 344,323										
	SIGNAL BISTABLES	N-2AP+ALM-AR											

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR				RRS		REF									
	VEND MODEL	SPEC			CODES											
	MANUFACTURER	MANUFAC MODEL														

TY - RELAY, COMPUTING, SELECTING OR BOOSTER, TEMPERATURE

3HVC*TY166A1	CONT RM TEMP CONT FOXBORO N-2AI-P2V R/E CONVERTER	Q0AAB29 392 N-2AI-P2V	CB	RM	Y	N		N	HF	MD	NA	NA	NA		A
3HVC*TY166A2	CONT RM TEMP CONT FOXBORO N-2AO-V2I E/I CONVERTER	Q0AAB50 392 N-2AO-V2I	CB	RM	Y	N		N	HF	MD	NA	NA	NA		C
3HVC*TY166B1	CONT RM TEMP CONT FOXBORO N-2AI-P2V R/E CONVERTER	Q0AAB29 392 N-2AI-P2V	CB	RM	Y	N		N	HF	MD	NA	NA	NA		A
3HVC*TY166B2	CONT RM TEMP CONT FOXBORO N-2AO-V2I E/I CONVERTER	Q0AAB50 392 N-2AO-V2I	CB	RM	Y	N		N	HF	MD	NA	NA	NA		C
3HVC*TY175A1	INSTR RM RM TEMP CNTRL FOXBORO N-2AT-P2V R/E CONVERTER	Q0AAB29 392 N-2AI-P2V	CB	RM	Y	N		N	HF	MD	NA	NA	NA		A
3HVC*TY175A2	INSTR RM RM TEMP CNTRL FOXBORO N-2AP+SUM SUMMER	Q0AAB47 392 N-2AP+SUM	CB	RM	Y	N									C
3HVC*TY175A3	INSTR RM RM TEMP CNTRL FOXBORO N-2AO-V2I E/I CONVERTER	Q0AAB50 392 N-2AO-V2I	CB	RM	Y	N		N	HF	MD	NA	NA	NA		C

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UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVC*TY175B1	INSTR RH RH TEMP CNTRL FOXBORO N-2AI-P2V R/E CONVERTER	Q0AAB29 392 N-2AI-P2V	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	A	
3HVC*TY175B3	INSTR RH RH TEMP CNTRL FOXBORO N-2AO-V2I E/I CONVERTER	Q0AAB50 392 N-2AO+V2I	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	C	
3HVC*TY176A	INSTR RH RH TEMP CNTRL FOXBORO N-2AI-P2V R/E CONVERTER	Q0AAB29 392 N-2AI-P2V	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	A	
3HVC*TY176B	INSTR RH RH TEMP CNTRL FOXBORO N-2AI-P2V R/E CONVERTER	Q0AAB29 392 N-2AI-P2V	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	A	
3HVC*TY209A1	SHGR RMS TEMP CNTRL FOXBORO N-2AI-P2V R/E CONVERTER	Q0AAB29 392 N-2AI-P2V	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	A	
3HVC*TY209A2	SHGR RMS TEMP CNTRL FOXBORO N-2AO-V2I E/I CONVERTER	Q0AAB50 392 N-2AO+V2I	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	C	
3HVC*TY209A3	SHGR RMS TEMP CNTRL FOXBORO N-2AO-V2I E/I CONVERTER	Q0AAB50 392 N-2AO+V2I	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323	N HF MD NA NA NA	C	

REPORT NO. MSSQT1

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UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS						
	DESCRIPTION		BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST		TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT				RRS	REF	DYN.	INPUT								
	VEND MODEL	SPEC				CODES			(ZPA)								
	MANUFACTURER	MANUFAC MODEL															

3HVC*TY209A4	SHGR RMS TEMP CNTRL FOXBORO N-2AP-SLM SIGNAL LIMITER	QQAAB50 392 N-2AP-SLM	CB			RM	Y	N		N	MF	MD	NA	NA	NA	D
3HVC*TY209B1	SHGR RMS TEMP CNTRL FOXBORO N-2AI-P2V R/E CONVERTER	QQAAB29 392 N-2AI-P2V	CB			RM	Y	N		N	MF	MD	NA	NA	NA	A
3HVC*TY209B2	SHGR RMS TEMP CNTRL FOXBORO N-2AO+V2I E/I CONVERTER	QQAAB50 392 N-2AO+V2I	CB			RM	I	E	EE 344	N	MF	MD	NA	NA	NA	C
3HVC*TY209B3	SHGR RMS TEMP CNTRL FOXBORO N-2AO-V2I E/I CONVERTER	QQAAB50 392 N-2AO+V2I	CB			RM	Y	N		N	MF	MD	NA	NA	NA	C
3HVC*TY209B4	SHGR RMS TEMP CNTRL FOXBORO N-2AP-SLM SIGNAL LIMITER	QQAAB50 392 N-2AP-SLM	CB			RM	Y	N		N	MF	MD	NA	NA	NA	D

DMP - DAMPER

3HVC*DMPF6	FIRE DAMPER	44453-1/0801 565	CB	00064	DM	Y	N	.50.15	N	N	MF	MD	NA	NA	NA	A	Y

DMPF - DAMPER, FIRE

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D	LOADS DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVC*DMPF1	FIRE DAMPER	44453-1/0801 565	CB 00064 RH	Y N	.50.15	N HF MD NA NA NA	A Y	
				12179-NS(B)-017 IEEE-344				
3HVC*DMPF10	FIRE DAMPER	44453-1/0801 565	CB 00064 DM	Y N	.50.15	N HF MD NA NA NA	A Y	
				12179-NS(B)-017 IEEE-344				
3HVC*DMPF11	FIRE DAMPER	44453-1/0801 565	CB 00047 DM	Y N	.50.15	N HF MD NA NA NA	A Y	
				12179-NS(B)-017 IEEE-344				
3HVC*DMPF12	FIRE DAMPER	44453-1/0801 565	CB 00047 DM	Y N	.50.15	N HF MD NA NA NA	A Y	
				12179-NS(B)-017 IEEE-344				
3HVC*DMPF13	FIRE DAMPER	44453-1/0801 565	CB 00047 DM	Y N	.50.15	N HF MD NA NA NA	A Y	
				12179-NS(B)-017 IEEE-344				
3HVC*DMPF14	FIRE DAMPER	44453-1/0801 565	CB 00047 DM	Y N	.50.15	N HF MD NA NA NA	A Y	
				12179-NS(B)-017 IEEE-344				
3HVC*DMPF15	FIRE DAMPER	44453-1/0801 565	CB 00047 DM	Y N	.50.15	N HF MD NA NA NA	A Y	
				12179-NS(B)-017 IEEE-344				

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
VENDOR	QUAL REPORT				RRS	REF	DYN.	INPUT								
VEND MODEL	SPEC															
MANUFACTURER	MANUFAC MODEL							(ZPA)								

1. 本行在 2019 年 12 月 31 日及 2018 年 12 月 31 日，均无因金融资产转移而终止确认的金融资产。

3HVC*DHPF16	FIRE DAMPER	CB 00047 DM Y N .50.15 N MF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-017
	565	IEEE-344

3HVC*DMPF17	FIRE DAMPER	CB 00047 DM Y N .50.15 N MF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-017
	565	IEEE-344

3HVC*DMPF18	FIRE DAMPER	CB 00047 DM Y N .50.15 N MF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-017
	565	IEEE-344

3HVC*DNPF19	FIRE DAMPER	CB 00047 DM Y N .50.15 N MF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-017
	565	IEEF-344

3HVC*DMPF2	FIRE DAMPER		CB	00064	RH	Y	N	.50.15	N	MF	MD	NA	NA	NA	A Y
		44453-1/0801						12179-NS(B)-017							
		565						IEEE-344							

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3HVC*DMPF20      FIRE DAMPER              CB 00047 DM   Y   N   .50.15 N   MF MD   NA   NA   NA   A Y
               44453-1/0801                12179-NS(B)-017
               565                          IEEE-344

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3HVC*DMPF21	FIRE DAMPER	CB 00047 DM Y N .50.15 N MF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-017
	565	IEEE-344

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DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQS	STATUS
	VENDOR	QUAL REPORT	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
	VEND MODEL	SPEC	RRS REF	DYN. INPUT	FREQ DIR		
	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)			
3HVC*DMPF24	FIRE DAMPER	44453-1/0801 565	CB 00004 DM	Y N .25.15 N	HF MD NA NA NA	A Y	
			12179-NS(B)-017 IEEE-344				
3HVC*DMPF25	FIRE DAMPER	44453-1/0801 565	CB 00004 DM	Y N .25.15 N	HF MD NA NA NA	A Y	
			12179-NS(B)-017 IEEE-344				
3HVC*DMPF26	FIRE DAMPER	44453-1/0801 565	CB 00004 DM	Y N .30.15 N	HF MD NA NA NA	A Y	
			12179-NS(B)-017 IEEE-344				
3HVC*DMPF27	FIRE DAMPER	44453-1/0801 565	CB 00004 DM	Y N .30.15 N	HF MD NA NA NA	A Y	
			12179-NS(B)-017 IEEE-344				
3HVC*DMPF28	FIRE DAMPER	44453-1/0801 565	CB 00004 DM	Y N .30.15 N	HF MD NA NA NA	A Y	
			12179-NS(B)-017 IEEE-344				
3HVC*DMPF29	FIRE DAMPER	44453-1/0801 565	CB 00004 DM	Y N .30.15 N	HF MD NA NA NA	A Y	
			12179-NS(B)-017 IEEE-344				
3HVC*DMPF30	FIRE DAMPER	44453-1/0801 565	CB 00004 DM	Y N .25.15 N	HF MD NA NA NA	A Y	
			12179-NS(B)-017 IEEE-344				

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PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLOC OR AREA

[illegible][illegible]

3HVC*DMPF31 FIRE DAMPER CB 00004 DM Y N .30.15 N MF MD NA NA NA A Y
44453-1/0001 12179-NS(E)-017
565 IEEE-344

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3HVC*DMPF33      FIRE DAMPER      CB 00004 DM   Y   N   .25.15 N   MF MD   NA   NA   NA   A Y
                44453-1/0801      12179-NS(B)-017
                565                IEEE-344

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3HVC*DNPF34	FIRE DAMPER	CB 00004	DM Y N	.25.15	N	MF	MD	NA	NA	NA	A Y
		44053-1/0801		12179-NS(B)-017							
		565		IEEE-344							

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3HVC*DMPF35      FIRE DAMPER                      CB 00004 DM   Y   N   .25.15 N   MF   MD   NA   NA   NA   A Y
                44453-1/0001                        12179-NS(B)-017
                F65                                IEEE-344

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3HVC*DMPF36	FIRE DAMPER	CB 00004 DM Y N .25.15 N MF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-017
	565	IEEE-344

3HVC>DHPF37	FIRE DAMPER	CB 00004 DM Y N .25.15 N HF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-017
	565	IEEE-344

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3HVC*DMPF38      FIRE DAMPER      CB 00004 DH   Y   N   .25.15 N   MF   MD   NA   NA   NA   NA   A Y
                  44453-1/0001      12179-NS(B)-017
                  565                IEEE-344

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REPORT NO. HSSQTI

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

.....

3HVCNDMPF39	FIRE DAMPER	CB	DH Y N .25.15 N MF MD NA NA NA A Y
	44453-1/0801		12179-NS(B)-017
	565		IEEE-344

3HVC*DMPF4	FIRE DAMPER		CB	00064	RH	Y	N	.50.15	N	MF	MD	NA	NA	NA	A	Y
		44453-1/0801						12179-NS(B)-017								
		565						IEEE-344								

3HVC*DMPF42 FIRE DAMPER CB 00004 DM Y N .25.15 N MF MD NA NA NA NA A Y
44453-1/0801 12179-NS(B)-017
565 IEEE-344

3HVC*DMPF43	FIRE DAMPER	CB 00004 DM Y N .25.15 N MF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-J17
	565	IEEE-344

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3HVC*DHPF50      FIRE DAMPER      CB 00024 DM   Y   N   .30.15 N   MF   MD   NA   NA   NA   NA   A Y
                  44453-1/0801      12179-NS(B)-017
                  565                IEEE-344

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3HVC*DMPF51	FIRE DAMPER	CB 00024 DM Y N .30.15 N MF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-017
	565	IEEE-344

3HVC*DMPF52	FIRE DAMPER	CB 00024 DM Y N .30.15 N HF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-017
	565	IEEE-344

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PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	NAT FREQS	STATUS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

一、本行在 2019 年 12 月 31 日及 2019 年 12 月 31 日以前，均未有因违反《证券及期货条例》、《上市规则》或《创业板上市规则》而受到证监会或交易所的纪律处分或处罚。

3HVC#DMPF53 FIRE DAMPER CB 00024 DM Y N .30.15 N HF MD NA NA NA A Y
44453-1/0801 12179-NS(B)-017
565 IEEE-344

3HVCWDMPF54	FIRE DAMPER	CB 00024 DM Y N .30.15 N HF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-017
	565	IEEE-344

3HVC*DMPF7	FIRE DAMPER	CB 00064 DM Y N .50.15 N MF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-017
	565	IEEE-344

3HVC*DMPF8 FIRE DAMPER CB 00004 DM Y N .50.15 N MF MD NA NA NA A Y
44453-1/0801 12179-NS(B)-017
565 IEEE-344

3HVCWDMPF9	FIRE DAMPER	CB 00064	DN	Y	N	.50.15	N	MF	MD	NA	NA	NA	A	Y
		00453-1/0601				12179-NS(B)-017								
		565				IEEE-344								

FLT - FILTER

3HVC*FLT2	FILTER	CB 00004 DM Y N .25.15 N SF MD 14.9 11.5 40.0 A Y
	NESE-718	12179-NS(B)-017
2H28	F65	ASME III,ASTM A500

3HVC*FLT3	FILTER	NESE-718	CB 00004	DM	Y	N	.32.13	N	SF	MD	14.9	11.5	40.0	A	Y
	2H28	565					12179-NS(B)-0.7								
							ASME III								

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PLANT NAME HILLSTONE UNIT 3
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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS			STATUS			
	DESCRIPTION		BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT		RRS REF		DYN.	INPUT								
	VEND MODEL	SPEC		CODES			(ZPA)								
	MANUFACTURER	MANUFAC MODEL													

3HVC*FLT4A	FILTER		CB	00064	DM	Y	N	.50.15	N	SF	HD	14.9	11.5	40.0	A
	2H28	NESE-718 565						12179-NS(B)-017							
								ASME III,ASTM A500							

DMP - DAMPER

3HVC*DHPB11	BACKDRAFT DAMPER		CB	00004	HM	Y	N	.25.15	S	NA	NA	33+	NA	NA	A Y
	2230	90267-1 583						NS(B)-017							
								AMCA-500-75							

3HVC*DHPB13A	BACKDRAFT DAMPER		CB	00004	HM	Y	N	.30.15	S	NA	NA	33+	NA	NA	A Y
	2230	90267-1 583						NS(B)-017							
								AMCA-500-75							

3HVC*DHPB13B	BACKDRAFT DAMPER		CB	00004	HM	Y	N	.30.15	S	NA	NA	33+	NA	NA	A Y
	2230	90267-1 583						NS(B)-017							
								AMCA-500-75							

3HVC*DHPB15A	BACKDRAFT DAMPER		CB	00064	HM	Y	N	.60.17	S	NA	NA	33+	NA	NA	A Y
	2230	90267-1 583						NS(B)-017							
								AMCA-500-75							

3HVC*DHPB15B	BACKDRAFT DAMPER		CB	00064	HM	Y	N	.60.17	S	NA	NA	33+	NA	NA	A Y
	2230	90267-1 583						NS(B)-017							
								AMCA-500-75							

3HVC*DHPB17A	BACKDRAFT DAMPER		CB	00064	HM	Y	N	.50.15	S	NA	NA	33+	NA	NA	A Y
	2230	90267-1 583						NS(B)-017							
								AMCA-500-75							

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

[illegible]

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVC*DHPB5B	BACKDRAFT DAMPER 2230	90267-1 583	CB 00064 HM	Y N	S NA NA	33+ NA NA	A Y
			AMCA-500-75				
3HVC*DHPB6B	BACKDRAFT DAMPER 2230	90267-1 583	CB 00064 HM	Y N	.50.15 S NA NA	33+ NA NA	A Y
			NS(B)-017 AMCA-500-75				
3HVC*DHPB7	BACKDRAFT DAMPER 2230	90267-1 583	CB 00004 HM	Y N	.25.15 S NA NA	33+ NA NA	A Y
			NS(B)-017 AMCA-500-75				
3HVC*DHPB8A	BACKDRAFT DAMPER 2230	90267-1 583	CB 00004 HM	Y N	.25.15 S NA NA	33+ NA NA	A Y
			NS(B)-017 AMCA-500-75				
3HVC*DHP1	DAMPER NVC-42	90267-303 583	CB 00047 HM	Y N	.50.15 S NA NA	33+ NA NA	A Y
			NS(B)-017 AMCA-500-75				
3HVC*DHP101	DAMPER NVC-42	90267-303 583	CB 00047 HM	Y N	.40.15 S NA NA	33+ NA NA	A Y
			NS(B)-017 AMCA-500-75				
3HVC*DHP104	DAMPER NVC-42	90267-303 583	CB 00047 HM	Y N	.50.15 S NA NA	33+ NA NA	A Y
			NS(B)-017 AMCA-500-75				

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PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
 MSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	HTG	SEIS	OTHER REQ'D	ANLYS TEST TEST FREQ DIR	NAT FREQS VERT SQ INS
VENDOR	QUAL REPORT		RRS REF	DYN.	INPUT	FREQ DIR	
VEND MODEL	SPEC		CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL						

1. 凡在本行开立存款账户的客户，均可申请开通网上银行服务。2. 客户申请开通网上银行服务时，应填写《网上银行开通申请表》，并提供本人有效身份证件。3. 客户开通网上银行服务后，应妥善保管网上银行密码，不得将密码泄露给他人。4. 客户使用网上银行服务时，应遵守国家法律法规及本行相关规章制度。5. 本行有权对客户使用网上银行服务的行为进行监控，如发现异常交易，有权暂停或终止服务。6. 本行不承担因客户使用网上银行服务而产生的任何风险。7. 本行保留对网上银行服务条款进行修订的权利。8. 本行提供网上银行服务的地区，以本行公告为准。9. 本行提供网上银行服务的币种，以本行公告为准。10. 本行提供网上银行服务的交易限额，以本行公告为准。

3HVCxDHP105	DAMPER		CD	00047	HM	Y	N	.50.15	S	NA	NA	33+	NA	NA	A Y
		90267-303				NS(B)-017									
	NVC-42	583				AMCA-500-75									

3HVCWDP11	DAMPER	90267-303	CB 00047 HM Y N .60.17 S NA NA 33+ NA NA A Y
	NVC-42	563	NS(B)-017 AHCA-500-75

[illegible][illegible][illegible]

3HVC*DHP121	DAMPER	90267-303	CB 00047 HM Y N .40.15 S NA NA 33+ NA NA A Y
	NVC-42	583	NS(B)-017 AMCA-500-75

[illegible]

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PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR
VEND MODEL	SPEC	CODES	(ZPA)	
MANUFACTURER	MANUFAC MODEL			

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3HVCwDMP13	DAMPER NVC-42	90267-303 583	CB 00064 HM Y N .60.17 S NA NA 33+ NA NA A Y NS(B)-017 AHCA-500-75
3HVCwDMP14	DAMPER NVC-42	90267-303 583	CB 00064 HM Y N .60.17 S NA NA 33+ NA NA A Y NS(B)-017 AHCA-500-75
3HVCwDMP15	DAMPER NVC-42	90267-303 583	CB 00064 HM Y N .60.17 S NA NA 33+ NA NA A Y NS(B)-017 AHCA-500-75
3HVCwDMP16	DAMPER NVC-42	90267-303 583	CB 00064 HM Y N .50.15 S NA NA 33+ NA NA A Y NS(B)-017 AHCA-500-75
3HVCwDMP17	DAMPER NVC-42	90267-303 583	CB 00064 HM Y N .60.17 S NA NA 33+ NA NA A Y NS(B)-017 AHCA-500-75
3HVCwDMP18	DAMPER NVC-42	90267-303 583	CB 00064 HM Y N .50.15 S NA NA 33+ NA NA A Y NS(B)-017 AHCA-500-75
3HVCwDMP19	DAMPER NVC-42	90267-303 583	CB 00064 HM Y N .60.17 S NA NA 33+ NA NA A Y NS(B)-017 AHCA-500-75

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

1. 凡在本行開辦之各項業務，均應遵守本行所定之各項規章及法律法規之規定，不得有違。如有違反者，本行將依法究辦，絕不寬貸。

3HVC*DMP2	DAMPER		CE 00047 HM Y N .50.15 S NA NA 33+ NA NA A Y
		90267-303	NS(B)-017
NVC-42		583	AHCA-500-75

[illegible][illegible][illegible]

3HVC*DMP23	DAMPER	CB 00064 HM Y N .50.15 S NA NA 33+ NA NA A Y
		90267-303 NS(B)-017
NVC-42	583	AMCA-500-75

3HVC*DMP24	DAMPER		CB	00064	HM	Y	N	.60.17	S	NA	NA	33+	NA	NA	A Y
		90267-303				NS(B)-017									
	NVC-42	583				AMCA-500-75									

3HVC#DMP25	DAMPER		CB 00064 HM Y N .60.17 S NA NA 33+ NA NA A Y
NVC-42		90267-303 583	NS(B)-017 ANCA-500-75

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

1. 本行在 2019 年 12 月 31 日及 2018 年 12 月 31 日，均无因提供担保而形成的或有负债。

[illegible]

3HVC#DMP27	DAMPER		CB	00064	HM	Y	N	.50.15	S	NA	NA	33+	NA	NA	A Y
		90267-303				NS(B)-017									
	NVC-42	583				ANCA-500-75									

[illegible]

3HVC#DHP3	DAMPER		CB	00047	HM	Y	N	.50.15	S	NA	NA	33+	NA	NA	A Y
		90267-303				NS(B)-017									
	NVC-42	583				ANCA-500-75									

3HVC*DHP33	DAMPER		CB	00064	HM	Y	N	.50.15	S	NA	NA	33+	NA	NA	A Y
		90267-303				NS(B)-017									
	NVC-42	583				AMCA-500-75									

3HVC*DHP34	DAMPER	90267-303	CB 00064 HH Y N .50.15 S NA NA 33+ NA NA A Y
NVC-42	583	AMCA-500-75	

3HVC#DHP35	DAMPER		CB 00064 HM Y N .50.15 S NA TIA 33+ NA NA A Y
		90267-303	NS(B)-017
NVC-42		583	AMCA-500-75

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVC*DMP36	DAMPER	90267-303 583	CB 00047 HM Y N	.50.15 S	NA NA	33+ NA NA	A Y
	NVC-42		NS(B)-017 AHCA-500-75				
3HVC*DMP37	DAMPER	90267-303 583	CB 00047 HM Y N	.50.15 S	NA NA	33+ NA NA	A
	NVC-42		NS(B)-017 AHCA-500-75				
3HVC*DMP4	DAMPER	90267-303 583	CB 00047 HM Y N	.50.15 S	NA NA	33+ NA NA	A Y
	NVC-42		NS(B)-017 AHCA-500-75				
3HVC*DMP40	DAMPER	90267-303 583	CB 00004 HM Y N	.30.15 S	NA NA	33+ NA NA	A Y
	NVC-42		NS(B)-017 AHCA-500-75				
3HVC*DMP42	DAMPER	90267-303 583	CB 00004 HM Y N	.25.15 S	NA NA	33+ NA NA	A Y
	NVC-42		NS(B)-017 AHCA-500-75				
3HVC*DMP43	DAMPER	90267-303 583	CB 00004 HM Y N	.25.15 S	NA NA	33+ NA NA	A Y
	NVC-42		NS(B)-017 AHCA-500-75				
3HVC*DMP44	DAMPER	90267-303 583	CB 00004 HM Y N	.25.15 S	NA NA	33+ NA NA	A Y
	NVC-42		NS(B)-017 AHCA-500-75				

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REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS	
	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER REQ'D	ANLYS TEST	TEST	F/B	S/S	VERT	SQ INS
	VENDOR	SPEC	RRS REF		DYN.	INPUT		FREQ DIR				
	VEND MODEL		CODES			(ZPA)						
	MANUFACTURER	MANUFAC MODEL										

3HVC*DMP45	DAMPER	90267-303	CB	00004	HM	Y	N	.30.15	S	NA	NA	A Y
	NVC-42	583			NS(B)-017							
					AMCA-500-75							
3HVC*DMP46	DAMPER	90267-303	CB	00004	HM	Y	N	.30.15	S	NA	NA	B Y
	NVC-42	583			NS(B)-017							
					AMCA-500-75							
3HVC*DMP47	DAMPER	90267-303	CB	00004	HM	Y	N	.30.15	S	NA	NA	A Y
	NVC-42	583			NS(B)-017							
					AMCA-500-75							
3HVC*DMP48	DAMPER	90267-303	CB	00004	HM	Y	N	.25.15	S	NA	NA	A Y
	NVC-42	583			NS(B)-017							
					AMCA-500-75							
3HVC*DMP49	DAMPER	90267-303	CB	00004	HM	Y	N	.25.15	S	NA	NA	A Y
	NVC-42	583			NS(B)-017							
					AMCA-500-75							
3HVC*DMP50	DAMPER	90267-303	CB	00004	HM	Y	N	.30.15	S	NA	NA	A Y
	NVC-42	583			NS(B)-017							
					AMCA-500-75							
3HVC*DMP51	DAMPER	90267-303	CB	00004	HM	Y	N	.30.15	S	NA	NA	A Y
	NVC-42	583			NS(B)-017							
					AMCA-500-75							

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

[illegible]

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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV HTG SEIS OTHER REQ'D RRS REF DYN. INPUT CODES	LOADS REQ'D ANLYS TEST TEST FREQ DIR	QUAL METH	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVC*DMP6A	BACKDRAFT DAMPER 2230	90267-1 583	CB 00064 HM Y N NS(B)-017 AMCA-500-75	S	NA NA	33+ NA NA	A
3HVC*DMP60	DAMPER NVC-42	90267-303 583	CB 00064 HM Y N NS(B)-017 AMCA-500-75	.50.15 S	NA NA	33+ NA NA	A Y
3HVC*DMP62	DAMPER NVC-42	90267-303 583	CB 00047 HM Y N NS(B)-017 AMCA-500-75	.50.15 S	NA NA	33+ NA NA	A Y
3HVC*DMP63	DAMPER NVC-42	90267-303 583	CB 00047 HM Y N NS(B)-017 AMCA-500-75	.50.15 S	NA NA	33+ NA NA	A Y
3HVC*DMP64	DAMPER NVC-42	90267-303 583	CB 00047 HM Y N NS(B)-017 AMCA-500-75	.50.15 S	NA NA	33+ NA NA	A Y
3HVC*DMP68	DAMPER NVC-42	90267-303 583	CB 00047 HM Y N NS(B)-017 AMCA-500-75	.50.15 S	NA NA	33+ NA NA	A Y
3HVC*DMP72	DAMPER NVC-42	90267-303 583	CB 00047 HM Y N NS(B)-017 AMCA-500-75	.50.15 S	NA NA	33+ NA NA	A Y

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN.	INPUT	FREQ DIR
VENDOR	QUAL REPORT	RRS REF	(ZPA)			
VEND MODEL	SPEC	CODES				
MANUFACTURER	MANUFAC MODEL					

... ..

[illegible][illegible][illegible]

3HVC*DMP8	DAMPER		CB	00047 HH	Y	N	S	NA	NA	33+	NA	NA	A Y
		90267-303											
	NVC-42	583		AMCA-500-75									

[illegible]

3HVC*DMP83	DAMPER		CB	00047	HM	Y	N	.50.15	S	NA	NA	33+	NA	NA	A Y
		90267-303				NS(B)-017									
	NVC-42	583				AMCA-500-75									

3HVC*DMP86	DAMPER		CB 00047 HM Y N .50.15 S NA NA 33+ NA NA A Y
	NVC-42	90267-303 583	NS(B)-017 AMCA-500-75

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT ----- QUAL REPORT SPEC MANUFAC MODEL	LOCATION --- BLDG ELEV MTG RRS REF CODES	SEIS	LOADS ----- OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	NAT FREQS ---- F/B S/S VERT	SQ INS	STATUS
3HVC*DHP87	DAMPER	90267-303 583	CB 00047 HM	Y	N .50.15 S	NA NA 33+	NA NA A Y		
	NVC-42			NS(B)-017 AMCA-500-75					
3HVC*DHP88	DAMPER	90267-303 583	CB 00047 HM	Y	N .50.15 S	NA NA 33+	NA NA A Y		
	NVC-42			NS(B)-017 AMCA-500-75					
3HVC*DHP89	DAMPER	90267-303 583	CB 00047 HM	Y	N .50.15 S	NA NA 33+	NA NA A Y		
	NVC-42			NS(B)-017 AMCA-500-75					
3HVC*DHP90	DAMPER	90267-303 583	CB 00047 HM	Y	N .50.15 S	NA NA 33+	NA NA A Y		
	NVC-42			NS(B)-017 AMCA-500-75					
3HVC*DHP91	DAMPER	90267-303 583	CB 00047 HM	Y	N .50.15 S	NA NA 33+	NA NA A Y		
	NVC-42			NS(B)-017 AMCA-500-75					
3HVC*DHP92	DAMPER	90267-303 583	CB 00047 HM	Y	N .50.15 S	NA NA 33+	NA NA A Y		
	NVC-42			NS(B)-017 AMCA-500-75					
3HVC*DHP94	DAMPER	90267-303 583	CB 00047 HM	Y	N .50.15 S	NA NA 33+	NA NA A Y		
	NVC-42			NS(B)-017 AMCA-500-75					

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

3HVC*DNF96	DAMPER	CB 00047 HM Y N .40.15 S NA NA 33+ NA NA A Y
		NS(B)-017
NVC-42	583	AMCA-500-75

3HVCWDHP98	DAMPER		CB 00047 HH Y N .50.15 S NA NA 33+ NA NA A Y
		90267-303	NS(B)-017
NVC-42		583	AHCA-500-75

ADD - DAMPER, AIR OPERATED

[illegible][illegible]

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3HVC*A00179A    CMPTR RM TEMP CNTRL    CB 00057 CH   Y   N   .50.15 N   SF   SD   35+   29   29   A Y
                  ANV INC                80271-301    NS(B)-017 REV 1B
                  ANV-7402              594           IEEE-323,344,382

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3HVC*A0D179S      CMPTR RM TEMP CNTRL      CB 00057 CW   Y   N .50.15 N   SF SD   35+ 29   29   A Y
                   ANV INC                   80271-301      NS(B)-017 REV 1B
                   ANV-7402                  594            IEEE-323,344,382

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JHVC*ADD179C      CMPTR RM TEMP CNTRL      CB 00057 CN    Y    N .50.15 N    SF  SD    35+  29    29    A Y
                   ANV INC                    80271-301      NS(B)-017 REV 1B
                   ANV-7402                   594            IEEE-323,344,382

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REPORT NO. MSSQT1

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UTILITY MUSCO

DOCKET NO. 50-423

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	SPEC	RRS REF	DYN.	INPUT	FREQ	DIR								
	VEND MODEL	MANUFACTURER	MANUFAC MODEL												

3HVC*A0027A	CONT BLDG VENT IN AMERICAN WARMING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	CB	00064	CW	Y	N	.60.17	N	SF	SD	35+	29	29	A
-------------	-------------------------------------------------------------------------	---------------------------	----	-------	----	---	---	--------	---	----	----	-----	----	----	---

3HVC*A0027B	CONT BLDG VENT IN AMERICAN WARMING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	CB	00064	CW	Y	N	.60.17	N	SF	SD	35+	29	29	A
-------------	-------------------------------------------------------------------------	---------------------------	----	-------	----	---	---	--------	---	----	----	-----	----	----	---

MOD - DAMPER, MOTOR OPERATED

3HVC*MOD33A	CONT BLDG EMER VENT INL. AMERICAN WARMING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	CB	00064	CW	Y	N	.50.15	N	SF	SD	35+	29	29	A
-------------	--------------------------------------------------------------------------------	---------------------------	----	-------	----	---	---	--------	---	----	----	-----	----	----	---

3HVC*MOD33B	CONT BLDG EMER VENT INL. AMERICAN WARMING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	CB	00064	CW	Y	N	.50.15	N	SF	SD	35+	29	29	A
-------------	--------------------------------------------------------------------------------	---------------------------	----	-------	----	---	---	--------	---	----	----	-----	----	----	---

SOV - VALVE, SOLENOID

3HVC*SOV119A	EMER VENT RECIRC AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	CB	00066	DM	Y	N	.60.17	N	SF	SD	*	35+		A Y
--------------	-----------------------------------------------------------------------	------------------------------	----	-------	----	---	---	--------	---	----	----	---	-----	--	-----

3HVC*SOV119B	EMER VENT RECIRC AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	CB	00066	DM	Y	N	.60.17	N	SF	SD	*	35+		A Y
--------------	-----------------------------------------------------------------------	------------------------------	----	-------	----	---	---	--------	---	----	----	---	-----	--	-----

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

[illegible][illegible]

3HVC#SQV27A	CONT BLDG VENT IN		CB 00065 DM Y N .60.17 N SF SD * 35+ A Y
	AMERICAN WARNING	AQR-67638	NS(B)-017 REV 1B
	NPK8320A162E	594	IEEE-323,344,382,627
	ASCO SCLNOD	NPK8320E	

3HVC#SOV27B	CONT BLDG VENT IN AMERICAN WARNING NPK8320A162E ASCO SOLENOID	AQR-67638 594 NPK8320E	CB 00085 DM Y N .60.17 N SF SD * 35+ A Y NS(B)-017 REV 1B IEEE-323,344,382,627
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SOV - VALVE, SOLENOID

3HVC*SOV20	CONT RM VENT OUT ISOL VLV	CB	EM Y N 3G N SF SD	35+	A Y
	AQR-67368		NA		
	609		IEEE-323,344,382		

3HVC#SQV21 CONT RH VENT OUT ISOL VLV CB 00064 EH Y N 3G N SF SD * 35+ A Y
 AQR-67638 NA
 609 IEEE-323,344,382

3HVC*SOV22 CONT RM VENT OUT ISOL VLV CB 00082 EM Y N 3G N SF SD * 35+ A Y
 AQR-67638 NA
 609 IEEE-323,344,382

3HVC*SOV23	CONT RM VENT OUT ISOL VLV	CB 00064 EM Y N 3G N SF SD *	35+	A Y
	AQR-67638	NA		
	609	IEEE-323,344,382		

3HVC*SOV25	CONT RH VENT INL ISOL VLV	CB 00082 EM Y N 3G N SF SD *	35+	A Y
	AQR-67638	NA		
	609	IEEE,323,344,382		

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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	QUAL METH --	NAT FREQS ----	STATUS
3HVC*SOV26	CONT RH VENT INL ISOL VLV AQR-67638 609		CB 00064	EM Y N 3G	N	SF SD *	35+	A Y
				NA IEEE-323,344,382				

AAA - RESERVED

3HVC*RIY16A	REMOTE MICROPROCESSOR KAMAN SCIENCES KEM-S(450953-004) KAMAN	CB K-84-50/16683-8 624 KDB (SPECIAL)	CH Y N .60.17	N	HF MD	24.0 24.0 28.0	B Y
				NS(B)-017,REV 1B IEEE 323,344			

RE - RADIOACTIVITY ELEMENT, PRIMARY

3HVC*REI16A	CONT BLDG RAD KAMAN SCIENCES P/N 451003-002 KAMAN	CB 00064 K-84-50/K-84-1 624 KDB (SP)	DM Y N .60.17	S	NA NA	33+ 33+ 33+	A Y
				NS(B)-017,REV 1B IEEE-323,344			
3HVC*REI16B	CONT BLDG RAD KAMAN SCIENCES P/N 451003-002 KAMAN	CB 00064 K-84-50/K-84-1 624 KDB (SP)	DM Y N .60.17	S	NA NA	33+ 33+ 33+	A Y
				NS(B)-017,REV 1B IEEE-323,344			

RIY - RADIATION INDICATING RELAY

3HVC*RIY16B	REMOTE MICROPROCESSOR KAMAN SCIENCES KEM-S(450953-004) KAMAN	CB K-84-50/16683-8 624 KDB (SPECIAL)	CH Y N .60.17	N	HF MD	24.0 24.0 28.0	B Y
				NS(B)-017,REV 1B IEEE 323,344			

PS - SWITCH,PRESSURE

DOCKET NO. 50-423

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVAC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	R/R R/F	DYN.	INPUT	
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

[illegible]

3HVC#PS74A	AIR STOR TK OUT	CB	RM Y N .60.17	D Y
		*	NS(B)-017 REV 1B	
SB11AKR/TN10A32BRX	626		IEEE 323-1974&IEEE 344-1975	
PRESSURE SWITCH	SB11AKR/TNA32BRX			

3HVC*PS74B	AIR STOR TK OUT	CB	RM Y N .60.17	D Y
	SB11AKR/TN10A32BRX	626	NS(B)-017 REV 1B	
	PRESSURE SWITCH	SB11AKR/TNA32BRX	IEEE 323-1974&IEEE 344-1975	

ACU - AIR CONDITIONING UNIT

3HVCWACU1A	AC UNIT-CNTRL RM SUPPLY	CB 00064 F Y N .50.15 SD NA NA 31.8 18.9 30.9 A Y
	BAHNSON A-392-81	NS(B)-017 REV.1B
	C.P.22C-CM 648	ASME III,CL3
	WESTINGHOUSE 30 H.P.	

3HVCWACU1B	AC UNIT-CNTRL RM SUPPLY	CB 00064 F Y N .50.15 SD NA NA 31.8 10.9 30.9 A Y
	BAHNSON A-392-81	NS(B)-017 REV.1B
	C.P.22C-CW 648	ASME II1,CL3
	WESTINGHOUSE 30 H.P.	

3HVC*ACU2A	AC UNIT-INST. RACK & COMP. RH	CB 00064 F Y N .50.15 SD NA NA 31.8 18.9 30.9 A Y
	BAHNSON A-392-01	NS(B)-017 REV.1B
	C.P.32C-CN 648	ASME III,CL3
	WESTINGHOUSE 50 H.P.	

3HVC*ACU2B	AC UNIT-INST. RACK & COMP. RM	CB 00064 F	Y	N	.50.15	SD	NA	NA	31.8	18.9	30.9	A	Y
	BAHNSON	A-392-81	DS(B)-017 REV.1B										
	C.P.32C-CN	648	ASME III,CL3										
	WESTINGHOUSE	50 H.P.											

3HVC*ACU3A	AC UNIT- E. SWGR RH	CB 00004 F Y N .25.15 SD NA NA 31.8 18.9 30.9 A Y
	BAHNSON A-392-81	NS(B)-017 REV.1B
	C.P.10C-CN 648	ASHE III,CL3
	NESTINGHOUSE 15 H.P.	

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLOG ELEV HTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT (ZPA)	QUAL METH -- ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	SQ INS
3HVC*ACU3B	AC UNIT- H. SWGR RM BAHNSON C.P.10C-CW WESTINGHOUSE	A-392-81 648 15 H.P.	CB 00004 F Y N .25.15 SD NA NA 31.8 18.9 30.9 A Y	NS(B)-017 REV.1B ASME III,CL3			
3HVC*ACU4A	AC UNIT E SWGR RM BAHNSON C.P.21C-CW WESTINGHOUSE	A-392-81 648 25 H.P.	CB 00004 F Y N .25.15 SD NA NA 31.8 18.9 30.9 A Y	NS(B)-017 REV.1B ASME III,CL3			
3HVC*ACU4B	AC UNIT W. SWGR RM BAHNSON C.P.21C-CW WESTINGHOUSE	A-392-81 648 25 H.P.	CB 00004 F Y N .25.15 SD NA NA 31.8 18.9 30.9 A Y	NS(B)-017 REV.1B ASME III,CL3			
SOV - VALVE, SOLENOID							
3HVC*SOV74A	AIR STOR TK OUT TARGET ROCK CORP 81V-005 IN-LINE SOLENOID VLV 81V-015	3040 654	CB 00064 DM Y N 3G S NA NA 33+ A Y	NA ASME III,CL3			
3HVC*SOV74B	AIR STOR TK OUT PRESS TARGET ROCK CORP 81V-005 IN-LINE SOLENOID VLV 81V-015	3040 654	CB 00064 DM Y N 3G S NA NA 33+ A Y	NA ASME III,CL3			
DIP - DAMPER							
3HVC*DHPB18A	BACKDRAFT DAMPER 2230	DD-5771--3S 668	CB 00064 CW Y N .60.17 S NA NA 77.1 70.3 168.0 A Y	NS(B)-017 NA			

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

[illegible][illegible]

3HVCWDPB18B	BACKDRAFT DAMPER	DD-5771-3S	CB 00064 CH Y N .50.15 S NA NA 77.1 70.3 168.0 A Y
2230	668	NS(B)-017	NA

3HVCW0HPB23 BACKDRAFT DAMPER CB 00064 HM Y N .60.17 S NA NA 77.1 70.3 168.0 A Y
DD-5771-3S NS(B)-017,REV.1B
668 NA

DNPT - DAMPER, TORNADO PROTECTION

3HVC=DNPTSA TORNADO DAMPER CB 00064 HM Y N .60.17 S NA NA 51.3 92.5 78.3 A Y
DO-5771-IS,REV.0 NS(B)-017,REV.1B
QN-0665 668 NA

3HVC*DHPT5B	TORNADO DAMPER	CB 00064 HM Y N .60.17 S NA NA 51.3 92.5 78.3 A Y
	DO-5771-IS,REV.0	NS(B)-017,REV.1B
GN-0665	66B	NA

3HVC*DHPT6A	TORNADO DAMPER	CB 00064 HM Y N .60.17 S NA NA 51.3 92.5 78.3 A Y
	DO-5771-IS,REV.0	NS(B)-017,REV.1B
GN-0665	668	NA

3HVC*DHPT6B	TORNADO DAMPER	CB 00064	Y	N	.60.17	S	NA	NA	51.3	92.5	78.3	A	Y
		DO-5771-IS,REV.0	NS(B)-017,REV.1B										
	GN-0665	668	NA										

3HVC*DNPT7A TORNADO DAMPER CB 00064 HM Y N .60.17 S NA NA 51.3 92.5 78.3 A Y
DO-5771-IS,REV.0 NS(B)-017,REV.1B
QN-0665 668 NA

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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/89

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVC*DHPT7B	TORNADO DAMPER	CB 00064 HM	Y N	.60.17 S	NA NA	51.3 92.5 78.3	A Y
	QN-0665	DO-5771-IS,REV.0 668	NS(B)-017,REV.1B NA				
3HVC*DHPT8A	TORNADO DAMPER	CB 00064 HM	Y N	.60.17 S	NA NA	51.3 92.5 78.3	A Y
	QN-0665	DO-5771-IS,REV.0 668	NS(B)-017,REV.1B NA				
3HVC*DHPT8B	TORNADO DAMPER	CB 00064	Y N	.60.17 S	NA NA	51.3 92.5 78.3	A Y
	QN-0665	DO-5771-IS,REV.0 668	NS(B)-017,REV.1B NA				
3HVC*DHPT9A	TORNADO DAMPER	CB 00064 HM	Y N	.60.17 S	NA NA	51.3 92.5 78.3	A Y
	QN-0665	DO-5771-IS,REV.0 668	NS(B)-017,REV.1B NA				
3HVC*DHPT9B	TORNADO DAMPER	CB 00064 HM	Y N	.60.17 S	NA NA	51.3 92.5 78.3	A Y
	QN-0665	DO-5771-IS,REV.0 668	NS(B)-017,REV.1B NA				

TE - TEMPERATURE ELEMENT, PRIMARY

3HVC*TE166A	CONT RM TEMP CONT NEED INSTRUMENT CO 0313-00125-006 NEED RTD	CB 3035-00125-14 683 611	DM Y N	.60.17 N	HF MD	33+	A Y
			NS(B)-017,REV 1B IEEE 323,344				
3HVC*TE166B	CONT RM TEMP CONT NEED INSTRUMENT CO 0313-00125-006 NEED RTD	CB 3035-00125-14 683 611	CN Y N	.60.17 N	HF MD	33+	A Y
			NS(B)-017,REV 1B IEEE 323,344				

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV HTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3HVC*TE175A	INSTR RH RH TEMP CNTRL	CB 00047	CH Y N	.50.15 N	HF MD	33+	A Y
	NEED INSTRUMENT CO	3035-00125-14		NS(B)-017,REV 1B			
	0313-00125-006	683		IEEE 323,344			
	NEED RTD	611					

3HVC*TE175B	INSTR RH RH TEMP CNTRL	CB 00047	CH Y N	.50.15 N	HF MD	33+	A Y
	NEED INSTRUMENT CO	3035-00125-14		NS(B)-017,REV 1B			
	0313-00125-006	683		IEEE 323,344			
	NEED RTD	611					

3HVC*TE176A	INSTR RH RH TEMP CNTRL	CB 00047	CH Y N	.50.15 N	HF MD	33+	A Y
	NEED INSTRUMENT CO	3035-00125-14		NS(B)-017,REV 1B			
	0313-00125-006	683		IEEE 323,344			
	NEED RTD	611					

3HVC*TE176B	INSTR RH RH TEMP CNTRL	CB 00047	CH Y N	.50.15 N	HF MD	33+	A Y
	NEED INSTRUMENT CO	3035-00125-14		NS(B)-017,REV 1B			
	0313-00125-006	683		IEEE 323,344			
	NEED RTD	611					

3HVC*TE209A	SHGR RMS TEMP SNTRL	CB 00008	CH Y N	.30.15 N	HF MD	33+	A Y
	NEED INSTRUMENT CO	3035-00125-14		NS(B)-017,REV 1B			
	0313-00125-020	683		IEEE 323,344			
	NEED RTD	611					

3HVC*TE209B	SHGR RMS TEMP CNTRL	CB 00008	CH Y N	.30.15 N	HF MD	33+	A Y
	NEED INSTRUMENT CO	3035-00125-14		NS(B)-01,REV 1B			
	0313-00125-020	683		IEEE 323,344			
	NEED RTD	611					

FS - SWITCH, FLOW

3HVC*FS116A	CHILLER EQUIP SPACE SPLY	CB	EM Y N	.75G	NA SF MD	33+	A Y
	FLUID COMPONENTS	700126 REV.3		NA			
	FR72-4	686		IEEE-344,1975			
	FLOW SWITCH	FR72-4					

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVC - AIR COND. - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV HTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVC*FS116B	CHILLER EQUIP 'ACE SPLY FLOW FLUID COMPONENTS FR72-4 FLOW SWITCH	708126 REV.3 686 FR72-4	CB	EM Y N .75G NA NA REG.189 AND IEEE-344,1975	SF MD	33+	A Y
3HVC*FS31A	3HVC*ACU-1A EXH FLOW FLUID COMPONENTS FR72-4R FLOW SWITCH	708126 REV.3 686 FR72-4R	CB	EM Y N .75G NA NA REG.189 AND IEEE-344,1975	SF MD	33+	A Y
3HVC*FS31B	3HVC*ACU-1B EXH FLOW FLUID COMPONENTS FR72-4R FLOW SWITCH	708126 REV.3 686 FR72-4R	CB	EM Y N .75G NA NA REG.189 AND IEEE-344,1975	SF MD	33+	A Y
3HVC*FS38A	CONT BLDG EMER VENT FLOW FLUID COMPONENTS FR72-4 FLOW SWITCH	708126 REV.3 686 FR72-4	CB	EM Y N .75G NA NA REG.189 AND IEEE-344,1975	SF MD	33+	A
3HVC*FS38B	CONT BLDG VENT FLOW FLUID COMPONENTS FR72-4 FLOW SWITCH	708126 REV.3 686 FR72-4	CB	EM Y N .75G NA NA REG.189 AND IEEE-344,1975	SF MD	33+	A
3HVC*FS53A	3HVC-ACU2A EXH FLOW FLUID COMPONENTS FR72-4 FLOW SWITCH	708126 REV.3 686 FR72-4R	CB	EM Y N .75G NA NA REG.189 AND IEEE-344,1975	SF MD	33+	A Y
3HVC*FS53B	3HVC-ACU2B EXH FLOW FLUID COMPONENTS FR72-4 FLOW SWITCH	708126 REV.3 686 FR72-4R	CB	EM Y N .75G NA NA IEEE-344,1975	SF MD	33+	A Y

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVG - GLYCOL HEATING - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	HTG	SEIS	OTHER REQ'D	ANLYS TEST TEST F/B S/S VERT SQ INS
VENDOR	QUAL REPORT			RRS REF	DYN. INPUT	FREQ DIR
VEND MODEL	SPEC			CODES	(ZPA)	
MANUFACTURER	MANUFAC MODEL					

SWEC EQUIPMENT

PS - SWITCH, PRESSURE

[illegible]

REPORT NO. HSSQTL

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVH - HOT WATER HEATING - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SNEC EQUIPMENT

PS - SWITCH, PRESSURE

3HVH#PS137A	HOT WTR HTG PRESS SPLY ASCO SB11AKR/TF10A32BRX PRESSURE SWITCH	AB 00043 RM Y N .41.18 N NS(B)-007-REV 0B IEEE 323-1974&IEEE 344-1975	SF SD	40+	40+	40+	A Y
3HVH#PS137B	HOT WTR HTG PRESS SPLY ASCO SB11AKR/TF10A32BRX PRESSURE SWITCH	AB 00043 RM Y N .41.18 N NS(B)-007-REV 0B IEEE 323-1974&IEEE 344-1975	SF SD	40+	40+	40+	A Y
3HVH#PS138A	HOT WTR HTG PRESS RTN ASCO SB11AKR/TF10A32BRX PRESSURE SWITCH	AB 00043 RM Y N .41.18 N NS(B)-007-REV 0B IEEE 323-1974&IEEE 344-1975	SF SD	40+	40+	40+	A Y
3HVH#PS138B	HOT WTR HTG FRESS RTN ASCO SB11AKR/TF10A32BRX PRESSURE SWITCH	AB 00043 RM Y N .41.18 N NS(B)-007-REV 0B IEEE 323-1974&IEE344-1975	SF SD	40+	40+	40+	A Y

REPORT NO. HSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SWEC EQUIPMENT

TK - TANK

3HVR*TK1A	CONT BLD CHWTR EXPAN TANK	CB	00064	HM	Y	N	.5.15N	S	SF	SD	25+	25+	25+	A
	P X ENG		12179-IA-79				S(B)-017-REV.08							
	473-7		022				ASME SECT III,CL3							

3HVK*TK1B	CONT BLD CHWTR EXPAN TANK	CB	00064	HH	Y	N	.5.15N	S	SF	SD	25+	25+	25+	A
	P X ENG		12179-IA-79				S(B)-017-REV.1B							
	473-7		022				ASME SECT III,CL3							

P - PUMP

3HVRXPIA	CONT BLDG CHILLED WTR.F	CB 00064	Y	N	.50.15 S	N	N	33.07	A Y
	GOULD PUMPS ME-260				NS(B)-017 REV 1B				
	319F 042				ASME III,CL2				
	WESTINGHOUSE 20 H.P.								

3HVR#P18	CONT BLDG CHILLED WTR.P	CB 00064	Y	N	.50.15	S	N	N	33.07	A	Y
	GOULD PUMPS	ME-260	NS(B)-017 REV 1B								
	3196MT	042	ASME III,CL2								
	WESTINGHOUSE	20 H.P.									

CHL - CHILLER, LIQUID

3HVW*CHL1A	CNTRL.BLDG.WATER CHILLER	CB	00064 EM	Y	N	.50.15 N	HF MD	14	20	10.75 A I
	CARRIER	A540-83	NS(B)-017 REV.1							
	17FA12	061	ASME III,CL2							
	WESTINGHOUSE	N/A								

3HVW4P4A	PUMPOUT UNIT		CB 00064 EH Y N .50.15 N MF MD 14 20 10.75 A
	A540-83		NS(B)-017 REV.1
19EA46	061		ASHE III,CL2

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

[illegible]

3HVKWP48	PUMPOUT UNIT	CB 00064 EM Y N .50.15 N MF MD 14 20 10.75 A
	A540-83	NS(B)-017 REV.1
19EA46	061	ASME III,CL2

PDI - INDICATOR, PRESSURE DIFFERENTIAL

3HVR#PDI55A	CHILLER LUBE OIL	CB	EH Y N .50.15 N MF MD 14 20 10.75 A
	A540-83		NS(B)-017 REV.1
19FA4	061		ASME III,CL2

3HVX*PDI55B	CHILLER LUBE OIL PRESS	CB	EM	Y	N	.50.15	N	HF	MD	14	20	10.75	A
	A540-83		NS(B)-017 REV.1										
19FA4	061		ASME III,CL2										

PDS - SWITCH, PRESSURE DIFFERENTIAL

3HVKWPDS54A	CHILLER LUBE OIL PRESS	CB	EM Y N .50.15 N	M MD	14 20	10.75 A Y
	A540-83		NS(B)-017 REV.1			
19FA4	061		ASHE III.C' 2			

3HVK*PDS548	CHILLER LUBE OIL PRESS	CB	EM	Y	N	.50.15	N	HF	MD	14	20	10.75	A	Y
	A540-83		NS(B)-017 REV.1											
19FA4	061		ASME III,CL2											

PI - INDICATOR PRESSURE

3HVH#PI53A	CHILLER CONDENSER	CB	EM Y N .50.15 N	HF MD	14	20	10.75	A Y
	A540-83		NS(B)-017 REV.1					
17FA12	061		ASME III,CL2					

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

3HVX*PI53B	CHILLER CONDENSER PRESS	CB	EH	Y	N	.50.15	N	MF	MD	14	20	10.75	A	Y
	A540-83		NS(B)-017 REV.1											
17FA12	061		ASME III,CL2											

PS - SWITCH,PRESSURE

3HVXPS52A	CHILLER CONDENSER PRESS	CB	EM Y N .50.15 N MF MD 14 20 10.75 A Y
	A540-83		NS(B)-017 REV.1
17FA12	061		ASME III,CL2

3HVW*PS52B	CHILLER CONDENSER PRESS	CB	EM	Y	N	.50.15	N	MF	MD	14	20	10.75	A	Y
	A540-83		NS(B)-017 REV.1											
17FA12	061		ASME III,CL2											

3HVK*PS62A	CHLR PUMP OUT UNIT		CB	EM Y N .50.15 N MF MD 14 20 10.75 A
	A540-83			NS(B)-017 REV.1
19EA46	061			ASHE III,CL2

3HVWPS62B	CHLR PUMP OUT UNIT PRESS	CB	EM Y N .50.15 N MF MD 14 20 10.75 A
	A540-83		NS(B)-017 REV.1
19EA46	Q61		ASME III,CL2

TE - TEMPERATURE ELEMENT, PRIMARY

3HVK*TE56A	CHILLER COMP MTR BRG TEMP	CB	EM Y N .50.15 N MF MD 14 20 10.75 A
	A540-83		NS(B)-017 REV.1
19FA4	061		ASME III,CL2

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVAC - CHILLED WATER - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	LOCATION MTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	LOADS REQ'D ANLYS TEST TEST FREQ DIR	QUAL METH	NAT FREQS F/B S/S VERT	STATUS

3HVH*TE56B	CHILLER COMP HTR BRG TEMP 19FA4	A540-83 061	CB	EM Y N	.50.15 N	MF MD 14 20	10.75 A		
3HVH*TE57A	CHLR COMP BRG TEMP 19FA4	A540-83 061	CB	EM Y N	.50.15 N	MF MD 14 20	10.75 A		
3HVH*TE57B	CHLR COMP BRG TEMP 19FA4	A540-83 061	CB	EM Y N	.50.15 N	MF MD 14 20	10.75 A		
3HVH*TE63A	CHLR REFRIGERANT TEMP 17FA15	A540-83 061	CB	EM Y N	.50.15 N	MF MD 14 20	10.75 A		
3HVH*TE63B	CHLR REFRIGERANT TEMP 17FA15	A540-83 061	CB	EM Y N	.50.15 N	MF MD 14 20	10.75 A		
TS - SWITCH,TEMPERATURE									
3HVH*TS56A	CHILLER COMP HTR BRG TEMP 19FA4	A540-83 061	CB	EM Y N	.50.15 N	MF MD 14 20	10.75 A		
3HVH*TS56B	CHILLER COMP HTR BRG TEMP 19FA4	A540-83 061	CB	EM Y N	.50.15 N	MF MD 14 20	10.75 A		

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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT TO

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS			STATUS
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS OTHER DYN. INPUT (ZPA)	REQ'D ANLYS TEST TEST FREQ DIR	F/B	S/S	VERT	SQ	INS		
3HVK*TS57A	CHLR COMP BRG TEMP 19FA4	A540-83 061	CB	EH Y N NS(B)-017 REV.1 ASME III,CL2	.50.15 N	MF	MD	14	20	10.75	A	
3HVK*TS57B	CHLR COMP BRG TEMP 19FA4	A540-83 061	CB	EH Y N NS(B)-017 REV.1 ASME III,CL2	.50.15 N	MF	MD	14	20	10.75	A	
3HVK*TS61A	CHILLED WTR TEMP 17FA-15	A540-83 061	CB	EH Y N NS(B)-017 REV.1 ASME III,CL2	.50.15 N	MF	MD	14	20	10.75	A	
3HVK*TS61B	CHILLED WTR TEMP 17FA-15	A540-83 061	CB	EH Y N NS(B)-017 REV.1 ASME III,CL2	.50.15 N	MF	MD	14	20	10.75	A	
3HVK*TS63A	CHLR REFRIGERANT TEMP 17FA15	A540-83 061	CB	EH Y N NS(B)-017 REV.1 ASME III,CL2	.50.15 N	MF	MD	14	20	10.75	A	
3HVK*TS63B	CHLR REFRIGERANT TEMP 17FA15	A540-83 061	CB	EH Y N NS(B)-017 REV.1 ASME III,CL2	.50.15 N	MF	MD	14	20	10.75	A	
ZS - SWITCH, POSITION												
3HVK*ZS58A	CHLR IMPEL DISPLACEMENT 19FA4	A540-83 061	CB	EH Y N NS(B)-017 REV.1 ASME III,CL2	.50.15 N	MF	MD	14	20	10.75	A	

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

[illegible]

.....

[illegible]

3HVK#ZS59A	GUIDE VANE POSITION	CB	EM	Y	N	.50.15	N	MF	MD	14	20	10.75	A
	A540-83		NS(B)-017 REV.1										
19FA4	061		ASME III,CL2										

3HVK*ZS59B	GUIDE VANE POSITION	CB	EM	Y	N	.50.15	N	MF	MD	14	20	10.75	A
	A540-83		NS(B)-017 REV.1										
19FA4	061		ASME III,CL2										

PNL - PANEL

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3HVK*PNLCHLIA  WALL MTD CHILLER CONTROL PNL A    CB 00064 CW   Y   N   .50.15 S   NA  NA  25+  25+  25+  A Y
SYSTEMS CONTROL      16825-82N,REV 0              NS(B)-017 REV 1B
3HVK*PNLCHLIA      246                          IEEE 344

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3HVK*PNLCHL1B  KALL MTD CHILLER CONTROL PNL B   CB 00064 CH   Y   N   .50.15 S   NA   NA   25+  25+  25+  A Y
SYSTEMS CONTROL      ACTON 15880,REV1          NS(B)-017 REV 1B
3HVK*PNLCHL1B      246                        IEEE 323,IEEE 344

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FIS - SWITCH, INDICATING, FLOW

3HVWwFIS30A	CHILL WATER SPLY		CB	00064 RH	Y N .50.15 N MF MD	42 A Y
	ITT BARTON	RJ-580A-9		NS(B)-017 REV 1B		
	199/581A-1	377		IEEE-323,344		
	ITT BARTON	199/581A-1				

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	MTG	SEIS	OTHER REQ'D	DYN.	INPUT	FREQ DIR
VENDOR	QUAL REPORT			RRS REF				
VEND MODEL	SPEC			CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL							

.....

3HVR#FIS30B	CHILL WATER SPLY FLOW	CB 00064 RM Y N .50.15 N HF MD	42 A Y
	ITT BARTON R3-580A-9	NS(B)-017 REV 1B	
	199/581A-1 377	IEEE-323,344	
	ITT BARTON 199/581A-1		

PDIS - SWITCH, INDICATING, PRESSURE DIFFERENTIAL

3HVR*PDIS60A	CHLR WTR FLOW	CB	RM	Y	N	.50.15	N	MF	MD	42	A	Y
	ITT BARTON	R3-580A-9	NS(B)-017 REV 1B									
	199/581A-1	377	IEEE-323,344									
	ITT BARTON	199/581A-1										

3HVK#PDIS60B	CHLR WTR FLOW	CB 00064 RM Y N .50.15 N MF MD	42 A Y
	ITT BARTON	NS(B)-017 REV 1B	
	199/581A-1	IEEE-323,344	
	ITT BARTON		
	199/581A-1		

PC - CONTROLLER, PRESSURE

3HVKPC32A	CHILL WTR SPLY & RTN	CB	RM	Y	N	N	HF	HD	NA	NA	NA	C
	FOXBORO	QOAAA05	NS(B)-017 REV 1B									
	N-2AC+A2	392	IEEE 344,323									
	P CONTROLLER	N-2AC-A2										

3HVR#PC32B	CHILL WTR SPLY & RTN	CB	RH Y N	N	MF	MD	NA	NA	NA	C
	FOXBORO	QOAAA05	NS(B)-017 REV 1B							
	N-2AC+A2	392	IEEE 344,323							
	P CONTROLLER	N-2AC-A2								

PDIC - CONTROLLER, INDICATING, PRESSURE DIFFERENTIAL

3HVK*PDIC32A	CHILL WTR SPLY & RTN	CB	RH Y N	N MF MD NA NA NA A
	FOXBORO	QQAAB67	NS(B)-017 REV 1B	
	N-250HN+M2NH-F	392	IEEE 344,323	
	ELEC DISPL STATIONS	N-250HN+M2NH-F		

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REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

3HVK*PDIC32B	CHILL WTR SPLY & RTN	CB	RH Y N	N	HF	MD	NA	NA	NA	C
	FOXBORO	QCAAB67	NS(B)-017 REV 1B							
	N-250HM+M2NH-F	392	IEEE 344,323							
	ELEC DISPL STATIONS	N-250HM+M2NH-F								

PDY - PRESSURE DIFFERENTIAL RELAY

3HVK*PDY32A1	CHILL WTR SPLY & RTN	CB	RM	Y	N	
	FOXBORO	IEEE 344,323				NS(B)-017 REV 1B
	N-2AI-I2V	392				IEEE-344,322
	I/E CONVERTER	N-2AI-I2V				

3HVR*PDY32A2	CHILL MTR SPLY & RTN	CB	RM	Y	N	N	HF	MD	NA	NA	NA	C
	FOXBORO	Q0AAB50										
	N-2AQ-V2I	392			NS(B)-017 REV 1B							
	E/I CONVERTER	N-2AQ+V2I			IEEE 344.323							

3HVKWPDY32B1	CHILL WTR SPLY & RTN	CB	RH Y N	N	MF	MD	NA	NA	NA	D
	FOXBORO	Q0AAB35	NS(B)-017 REV 1B							
	N-2AI-I2V	392	IEEE 344,323							
	I/E CONVERTER	N-2AI-I2V								

3HVR#PDY32B2	CHILL WTR DIFF PRESS CONT	CB	RH Y N	N HF MD NA NA NA C
	FOXBORO	GQAAB50	NS(B)-017 REV 1B	
	N-2AO-V2I	392	IEEE 344,323	
	E/I CONVERTER	N-2AO+V2I		

TS - SWITCH, TEMPERATURE

[illegible]

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

[illegible][illegible]

TV - VALVE, TEMPERATURE

[illegible][illegible][illegible]

3HVH#TV41B	3HVC-ACUI CHILL WTR COIL	CB 00064 DM Y N 3G S NA NA	33+	A
	TARGET ROCK CORP 3624	NA		
	81AB-004 654	ASME III,CL3		
	HODLTNG SOLENOID VLV 81AB-004			

[illegible][illegible]

REPORT NO. H55QT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/64

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

1. 凡在本行开立人民币存款账户的客户，均可申请开通网上银行服务。2. 客户申请开通网上银行服务时，须填写《网上银行开通申请表》，并提供本人有效身份证件。3. 客户开通网上银行服务后，须妥善保管网上银行密码，不得将密码泄露给他人。4. 客户使用网上银行服务时，须遵守国家法律法规及本行相关规章制度。5. 本行有权根据法律法规及监管要求，对网上银行服务进行调整或暂停。6. 客户对本行网上银行服务有任何疑问，可拨打本行客服热线咨询。7. 本行网上银行服务不受理现金存取业务。8. 客户开通网上银行服务后，本行将定期向其发送风险提示，客户须认真阅读并确认。9. 客户如遗失网上银行密码，应及时向本行申请挂失。10. 本行网上银行服务不受理涉及洗钱、恐怖融资等违法违规业务。11. 客户使用网上银行服务时，须确保网络环境安全，防止信息泄露。12. 本行网上银行服务不受理涉及虚拟货币、非法集资等业务。13. 客户开通网上银行服务后，本行将为其提供24小时不间断服务。14. 客户如对本行网上银行服务有任何疑问，可拨打本行客服热线咨询。15. 本行网上银行服务不受理涉及跨境资金转移业务。16. 客户使用网上银行服务时，须确保设备安全，防止病毒入侵。17. 本行网上银行服务不受理涉及虚拟货币、非法集资等业务。18. 客户开通网上银行服务后，本行将为其提供24小时不间断服务。19. 客户如对本行网上银行服务有任何疑问，可拨打本行客服热线咨询。20. 本行网上银行服务不受理涉及跨境资金转移业务。

3HVK*TV69A	SUPPLY ISOLATION TEMP TARGET ROCK CORP 3624 81AB-001 654 IN-LINE SOLENOID VLV 81AB-001	CB 00064 DM Y N 3G S NA NA 33+ A
3HVK*TV69B	SUPPLY ISOLATION TEMP TARGET ROCK CORP 3624 81AB-001 654 IN-LINE SOLENOID VLV 81AB-001	CB 00064 DM Y N 3G S NA NA 33+ A
3HVK*TV70A	SUPPLY ISOLATION TEMP TARGET ROCK CORP 3624 81AB-001 654 IN-LINE SOLENOID VLV 81AB-001	CB 00064 DM Y N 3G S NA NA 33+ A
3HVK*TV70B	SUPPLY ISOLATION TEMP TARGET ROCK CORP 3624 81AB-001 654 IN-LINE SOLENOID VLV 81AB-001	CB 00064 DM Y N 3G S NA NA 33+ A
3HVK*TV71A	SUPPLY ISOLATION TEMP TARGET ROCK CORP 3624 81AB-001 654 IN-LINE SOLENOID VLV 81AB-001	CB 00064 DM Y N 3G S NA NA 33+ A
3HVK*TV71B	SUPPLY ISOLATION TEMP TARGET ROCK CORP 3624 81AB-001 654 IN-LINE SOLENOID VLV 81AB-001	CB 00064 DM Y N 3G S NA NA 33+ A
3HVK*TV72A	RETURN ISOLATION TEMP TARGET ROCK CORP 3624 81AB-001 654 IN-LINE SOLENOID VLV 81AB-001	CB 00064 DM Y N 3G S NA NA 33+ A

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

[illegible]

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3HVK*TV72B	RETURN ISOLATION TEMP	CB	00064	DH	Y	N	3G	S	NA	NA	33+	A
	TARGET ROCK CURF		3624		NA							
	81AB-001		654		ASME III,CL3							
	IN-LINE SOLENOID VLV		81AB-001									

3HVK*TV73A	RETURN ISOLATION TEMP	CB	00064	DH	Y	N	3G	S	NA	NA	33+	A
	TARGET ROCK CORP		3624		NA							
	81AB-001		654		ASME III,CL3							
	IN-LINE SOLENOID VLV		81AB-001									

[illegible]

3HVK*TV74A	RETURN ISOLATION TEMP	CB	00064	DH	Y	N	3G	S	NA	NA	33+	A
	TARGET ROCK CORP		3624		NA							
	81AB-001		654		ASHE III,CL3							
	IN-LINE SOLENOID VLV		81AB-001									

[illegible][illegible][illegible]

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN.	INPUT	FREQ DIR
VENDOR	QUAL REPORT	RRS REF	DYN.	INPUT	FREQ DIR	
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

.....

3HVK*TV76A	ACU#4 CHILL WTR TEMP CNTRL TARGET ROCK CORP 3624 81AB-004 654 MODLTNG SOLENOID VLV 81AB-004	CB 00066 DM Y N 3G S NA NA 33+	A
3HVK*TV76B	ACU#4 CHILL WTR TEMP CNTRL TARGET ROCK CORP 3624 81AB-004 654 MODLTNG SOLENOID VLV 81AB-004	CB 00066 DM Y N 3G S NA NA 33+	A
3HVK*TV77A	ACU#3 CHILL WTR TEMP CNTRL TARGET ROCK CORP 3040 81AB-004 654 MODLTNG SOLENOID VLV 81AB-003	CB 00066 DM Y N 3G S NA NA 33+	A
3HVK*TV77B	ACU#3 CHILL WTR TEMP CNTRL TARGET ROCK CORP 3040 81AB-004 654 MODLTNG SOLENOID VLV 81AB-003	CB 00066 DM Y N 3G S NA NA 33+	A

TY - RELAY, COMPUTING, SELECTING OR BOOSTER, TEMPERATURE

3HVK*TY39A	3HVC-ACU2 CHILL WTR COIL TARGET ROCK CORP 3040 203114 654 ELECTRONIC CONTR MDL 81AB CONTROLLER	CB	EM Y N 3G S NA NA 33+ A Y
3HVK*TY39B	3HVC-ACU2 CHILL WTR TEMP CONTY TARGET ROCK CORP 3040 61AB 654 ELECTRONIC CONTR MDL 81AB CONTROLLER	CB	EM Y N 3G S NA NA 33+ A Y
3HVK*TY41A	3HVC-ACU1 CHILL WTR COIL TARGET ROCK CORP 3040 61AB 654 ELECTRONIC CONTR MDL 81AB CONTROLLER	CB	EM Y N 3G S NA NA 33+ A Y

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UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

EQUIPMENT ID	DESCRIPTION	BLDG ELEV INTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	ERS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

.....

3HVK*TY41B	3HVC-ACU1 CHILL WTR TEMP CONT	CB	EM	Y	N	3G	S	NA	NA	33+	A	Y
	TARGET ROCK CORP	3040	NA									
	61AB	654	ASME III,CL3									
	ELECTRONIC CONTR MDL 81AB CONTROLLER											

[illegible]

3HVK*TY76B	ACU#4 CHILL WTR TEMP CNTRL	CB	EH	Y	M	3G	S	NA	NA	37+	A	Y
	TARGET ROCK CORP	3040	NA									
	61AB	654	ASHE	III,	CL3							
	ELECTRONIC CONTR MDL 81AB CONTROLLER											

3HVK*TY77A	ACU#3 CHILL NTR TEMP CNTRL	CB	00004	EM	Y	N	3G	S	NA	NA	33+	A	Y
	TARGET ROCK CORP		3040		NA								
	61AB		654		ASME	III,CL3							
	ELECTRONIC CONTR MDL		61AB		CONTROLLER								

3HVK*TY77B	ACU#3 CHILL WTR TEMP CNTRL	CB	EM Y N 3G S NA NA	33+	A Y
	TARGET ROCK CORP	3040	NA		
	61AB	654	ASHE III,CL3		
	ELECTRONIC CONTR MDL	81AB CONTROLLER			

PDT - TRANSMITTER, PRESSURE DIFFERENTIAL

3HVK*PDT32A	CHILL MTR SPLY & RTN	CB	00075	RH	Y	N	.54.16	N	MF	MD	50	47	50	A	Y
	ROSEMOUNT		100025		NS(B)-017 REV 1B										
	1153DB		662		IEEE-323,344										
	DIFF PRSSR TRANSMTR		1153DB6PC												

3HVK*PDT32B	CHILL WTR SPLY & RTN	CB	RH	Y	N	.27.16	N	MF	MD	50	47	50	A	Y
	ROSEMOUNT	108025	NS(B)-007 REV 1B											
	1153DB	662	IEEE-323,344											
	DIFF PRSSR TRANSMTR	1153DB6PC												

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SYSTEM HVK - CHILLED WATER - CONTROL BLDG OR AREA

[illegible]

TE - TEMPERATURE ELEMENT, PRIMARY

3HVK*TE21A	CHILL WTR SUPPLY WEED INSTRUMENT CO 0313-00125-020 WEED RTD	CB 00064 DM Y N 3.0 N MF MD	33+	A Y
	3035-00125-14 683 612	NA IEEE 323,344		
3HVK*TE21B	CHILL WTR SUPPLY WEED INSTRUMENT CO 0313-00125-020 WEED RTD	CB 00064 DM Y N 3.0 N MF MD	33+	A Y
	3035-00125-14 683 612	NA IEEE 323,344		

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVP - VENTILATION - DIESEL GEN BLDG

[illegible]

SNEC EQUIPMENT

FN - FAN

3HVP*FN1A	SUPPLY FAN-EMER.GEN.BLDG BUFFALO FORGE 82325005-45 48B9 140 WESTINGHOUSE 40 H.P.	EGE 00044 HM Y N .55.15 S NA NA 33+ 33+ 33+ A Y NS(B)-069-REV.0B AMCA STD/IEEE 323,344/NUREG-0588
3HVP*FN1B	SUPPLY FAN-EMER.GEN.BLDG BUFFALO FORGE 82325005-45 48B9 140 WESTINGHOUSE 40 H.P.	EGE 00044 HM Y N .55.15 S NA NA 33+ 33+ 33+ A Y NS(B)-069-REV 0B AMCA STD/IEEE,323,344/NUREG-0588
3HVP*FN1C	EXH FAN-EMER.GEN.BLDG BUFFALO FORGE 82325005-45 48B9 140 WESTINGHOUSE 40 H.P.	EGE 00044 HM Y N .55.15 S NA NA 33+ 33+ 33+ A Y NS(B)-069-REV 0B AMCA STD/IEEE,323,344/NUREG-0588
3HVP*FN1D	EXH FAN-EMER.GEN.BLDG BUFFALO FORGE 82325005-45 48B9 140 WESTINGHOUSE 40 H.P.	EGE 00044 HM Y N .55.15 S NA NA 33+ 33+ 33+ A Y NS(B)-069-REV 0B AMCA STD/IEEE,323,344/NUREG-0588

TC - CONTROLLER, TEMPERATURE

3HVP*TC29A	DIESEL ENCL TEMP	CB 00048 RM Y N .40.15 N MF MD NA NA NA C
	FOXBORO	Q0AAA05 NS(8)-017 REV 1B
	N-2AC+A2	392 IEEE-344,322
	P CONTROLLER	N-2AC-A2

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVP - VENTILATION - DIESEL GEN BLDG

[illegible][illegible]

3HVP*TC29B	DIESEL ENCL TEMP	CB 00048 RM Y N .40.15 N MF MD NA NA NA C
	FOXBORO	QOAAA05
	N-2AC-A2	392
	P CONTROLLER	N-2AC-A2
		NS(B)-017 REV 1B
		IEEE 344,323

TIC - CONTROLLER, INDICATING, TEMPERATURE

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3HVP*TIC29A      DIESEL ENCL                CB 00048 PM   Y   N   .40.15
                  FOXBORO                    FOXBORO DC391  NS(B)-017 REV 1B
                  N-250HH&M2NH-F            392             IEEE 323,IEEE 344
                  ELEC DISPL STATIONS N-250HH&M2NH-F

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3HVP*TIC29B      D G ENC TEMP CONT      CB 00048 PH  Y  N  .40.15      D
                  FOXBORO                FOXBORO DC391      NS(B)-017 REV 1B
                  N-250HH&M2NH-F          392                IEEE 323,IEEE 344
                  ELEC DISPL STATIONS    N-250HH&M2NH-F

```

TY - RELAY, COMPUTING, SELECTING OR BOOSTER, TEMPERATURE

3HVP*TY29A1	DIESEL ENCL	CB 00046 RM Y N .40.15 N MF MD NA NA NA A
	FOXBORO	QOAAA05
	N-2AI-P2V	392
	R/E CONVERTER	IEEE 344,323
		N-2AI-P2V

3HVP*TY29A2	DIESEL ENCL	CB 00048 RM Y N .40.15 N HF MD NA NA NA C
	FOXBORO	QOAAA05
	N-2AO-V2I	NS(B)-017 REV 1B
	E/I CONVERTER	IEEE 344,323
		N-2AO+V2I

3HVP*TY29A3	DIESEL ENCL	CB 00048 RM Y N .40.15 N HF HD NA NA NA D
	FOXBORO	QOAAA05 NS(B)-017 REV 1B
	N-2AP-SLM	392 IEEE 344,323
	SIGNAL LIMITER	N-2AP-SLM

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVP - VENTILATION - DIESEL GEN BLDG

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVP*TY29A4	DIESEL ENCL TEMP FOXBORO N-2AX+DSR LOGIC RELAY CARD	Q0AAB18 392 N-2AX+DSR	CB 00048 RM Y N .40.15 N	NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA	D	
3HVP*TY29A5	DIESEL ENCL TEMP FOXBORO N-2AI-C2L INPUT ISOLATOR	Q0AAB15 392 N-2AI-C2L	CB 00048 RM Y N .40.15 N	NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA	D	
3HVP*TY29A6	DIESEL ENCL TEMP FOXBORO N-2AO-V2I E/I CONVERTER	Q0AAB50 392 N-2AO+V2I	CB 00048 RM Y N .40.15 N	NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA	D	
3HVP*TY29B1	DIESEL ENCL FOXBORO N-2AI-P2V R/E CONVERTER	Q0AAB29 392 N-2AI-P2V	CB 00048 RM Y N .40.15 N	NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA	A	
3HVP*TY29B2	DIESEL ENCL FOXBORO N-2AO-V2I E/I CONVERTER	Q0AAB50 392 N-2AO+V2I	CB 00048 RM Y N .40.15 N	NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA	C	
3HVP*TY29B3	DIESEL ENCL FOXBORO N-2AP-SLM SIGNAL LIMITER	Q0AAB50 392 N-2AP-SLM	CB 00048 RM Y N .40.15 N	NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA	D	
3HVP*TY29B4	DIESEL ENCL TEMP FOXBORO N-2AX+DSR LOGIC RELAY CARD	Q0AAB18 392 N-2AX+DSR	CB RM Y N .40.15 N	NS(B)-017 REV 1B IEEE 344,323	HF MD NA NA NA	D	

3HVP*MOD23A	DIESEL ENCL VENT INL	EGE 00043 CW Y N .55.15 N SF SD 35+ 29 29 A
	AMERICAN WARNING 80271-301	12179-NS(B)-069
	AHV-7402 594	IEEE 344,323,382
	NAMCO LIMIT SWITCH EA740	

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVP - VENTILATION - DIESEL GEN BLDG

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

其六、我國政府對於我國人民之海外投資，應予鼓勵，並應採取必要之措施，以保障其利益。我國政府應與有關國家訂定雙邊或多邊投資保護條約，以保障我國人民之海外投資利益。我國政府應加強對海外投資之監督與管理，並應採取必要之措施，以保障我國人民之海外投資利益。我國政府應加強對海外投資之監督與管理，並應採取必要之措施，以保障我國人民之海外投資利益。

3HVP#MOD23B	DIESEL ENCL VENT INL		EGE 00043 CW Y N .55.15 N SF SD 35+ 29 29 A
	AMERICAN WARMING	80271-301	12179-NS(B)-069
	AHV-7402	594	IEEE 344,323,382
	NAMCO LIMIT SWITCH	EA740	

3HVP#MOD26A	DIESEL ENCL VENT RECIRC	EGE 00038 CW Y N .55.15 N SF SD 35+ 29 29 A
	AMERICAN WARNING 80271-301	12179-NS(B)-069
	AWV-7402 594	IEEE 344,323,382
	NAMCO LIMIT SWITCH EA740	

[illegible]

TS - SWITCH, TEMPERATURE

[illegible]

3HVP*TS32B	D G ENG FAN & DAMPER CONTROL	EGE	CN	Y	N	.55.15	M	SF	SD	35+	35+	35+	A	Y
	ASCO	AQR-020184 R.O	NS(B)-069 REV 0B											
	SB11AKR/QF10A4R	626	IEEE 323-1974&IEEE 344-1975											
	TEMP SWITCH	SB11AKR/QF10A4R												

DNPT - DAMPER, TORNADO PROTECTION

3HVP*DHPT1A	TORNADO DAMPER	EGE 00041 HM	Y	N	.75.18	S	NA	NA	51.3	92.5	78.3	A	Y
		DO-5771-IS,REV.0					NS(B)-069,REV.0B						
	QN-0665	668					NA						

3HVP#DMPT2D	TORNADO DAMPER	EGE 00048	Y	N	.75.18	S	NA	NA	51.3	92.5	78.3	A	Y
		DO-5771-IS,REV.0	NS(B)-069,REV.0B										
	QN-0665	668	NA										

REPORT NO. H55QT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVP - VENTILATION - DIESEL GEN BLDG

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

.....

3HVP*DMPT5A	TORNADO DAMPER	EGE 00051 CH Y N .75.18 S NA NA 51.3 92.5 78.3 A Y
	DO-5771-IS,REV.0	NS(B)-069,REV.0B
QN-0665	668	NA

3HVP*DMPT5B	TORNADO DAMPER	EGE 00051 CH	Y	N	.75.18	S	NA	NA	51.3	92.5	78.3	A	Y
		DO-5771-IS,REV.0	NS'B)-069,REV.0B										
	QN-0665	668	NA										

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3HVP*DMPTSC      TORNADO DAMPER      EGE 00051 CW   Y   N   .75.18 S   NA   NA   51.3 92.5 78.3  A Y
                  DO-5771-IS,REV.0     NS(B)-069,REV.0B
                  QN-0665               NA

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3HVP*DHPTSD TORNADO DAMPER EGE 00051 CH Y N .60.17 S NA NA 51.3 92.5 78.3 A Y
DO-5771-IS,REV.0 NS(B)-017,REV.0B
QN-0665 668 NA

3HVP#DMPT6A	TORNADO DAMPER	EGE 00051 CH Y N .60.17 S NA NA 51.3 92.5 70.3 A Y
	DO-5771-IS,REV.0	NS(B)-017,REV.0B
QN-0665	660	NA

3HVP*DHPT6B	TORNADO DAMPER	EGE 00051	Y	N	.60.17	S	NA	NA	51.3	92.5	78.3	A	Y
		DO-5771-IS,REV.0	NS(B)-017,REV.0B										
	QN-0665	668	NA										

3HVP*DMPT6C	TORNADO DAMPER	EGE 00051	Y	N	.60.17	S	NA	NA	51.3	92.5	78.3	A	Y
		DO-5771-IS,REV.0	NS(B)-017,REV.0B										
	QN-0665	668	NA										

3HVP*DHPT6D	TORNADO DAMPER	EGE 00051	Y	N	.60.17	S	NA	NA	51.3	92.5	78.3	A	Y
		DO-5771-IS,REV.0			NS(B)-017,REV.0B								
	QN-0665	668	NA										

DMPF - DAMPER, FIRE

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

3HVQ*ACUS1B	ESF SELF CNTD A/C UNIT CVI B275-1100-1 WESTINGHOUSE	B275-9917 144 MOTORS	ESB 00036 CF Y N .32.13 D NA NA 31.0 21.6 31.0 A I 12179-NS(B)-010 ASME III,VIII,IX, IEEE 323,344
3HVQ*ACUS2A	ESF SELF CNTD A/C UNIT CVI B275-1100-1 WESTINGHOUSE	B275-9917 144 MOTORS	ESB 00036 CF Y N .32.13 D NA NA 31.0 21.6 31.0 A I 12179-NS(B)-010 ASME III,VIII,IX, IEEE 323,344
3HVQ*ACUS2B	ESF SELF CNTD A/C UNIT B275-9917 B275-1100-1	144	ESB 00036 CF Y N .32.13 D NA NA 31.0 21.6 31.0 A I 12179-NS(B)-010 ASME III,VIII,IX, IEEE 323,344

TC - CONTROLLER, TEMPERATURE

3HVQ*TC26A	AUX FW PP AREA VENT INL & EXH CB	RH Y N	N HF MD NA NA NA C
	FOXBORO QOAAA05	NS(B)-017 REV 1B	
	N-2AC-A2 392	IEEE 344,323	
	P CONTROLLER N-2AC-A2		
3HVQ*TC26B	AUX FW PP AREA VENT INL & EXH CB	RH Y N	C
	FOXBORO QOAA05	NS(B)-017 REV 1B	
	N-2AC-A2 392	IEEE 344,323	
	P CONTROLLER N-2AC-A2		

TIC - CONTROLLER, INDICATING, TEMPERATURE

3HVQ* <u>TIC26A</u>	AUX FW PP AREA VENT INL & EXH	ESB	RM	Y	N	
	FOXBORO	QOAB67				NS(B)-017 REV 1B
	N-250HM+M2NH-F	392				IEEE 344,323
	ELEC DISPL STATIONS	N-250HM+M2NH-F				

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PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. CODES	LOADS INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S	VERT SQ INS	STATUS

3HVQ*TIC26B	AUX FW PP AREA VENT FOXBORO N-250HH+M2NH-F ELEC DISPL STATIONS	INL & EXH QOAB67 392 N-250HH+M2NH-F	ESB	RH Y N NS(B)-017 REV 1B IEEE 344,323					A
TS - SWITCH,TEMPERATURE									
3HVQ*TS26A1	AUX FW PP AREA VENT FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	INL & EXH QOAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323					A
3HVQ*TS26A2	AUX FW PP AREA VENT FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	INL & EXH QOAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323					A
3HVQ*TS26B1	AUX FW PP AREA VENT FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	INL & EXH QOAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323					A
3HVQ*TS26B2	AUX FW PP AREA VENT FOXBORO N-2AP+ALM-AR SIGNAL BISTABLES	INL & EXH QOAB33 392 N-2AP+ALM-AR	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323					A
TY - RELAY,COMPUTING,SELECTING OR BOOSTER,TEMPERATURE									
3HVQ*TY26A1	AUX FW PP AREA VENT FOXBORO N-2AI-P2V R/E CONVERTER	INL & EXH QOAB29 392 N-2AI-P2V	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323					A

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH --	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3HVQ*TY26A2	AUX FW PP AREA VENT FOXBORO N-2AO-V2I E/I CONVERTER	INL & EXH QOAB50 392 N-2AO+V2I	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323			C
3HVQ*TY26B1	AUX FW PP AREA VENT FOXBORO N-2AI-P2V R/E CONVERTER	INL & EXH QOAB29 392 N-2AI-P2V	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323			A
3HVQ*TY26B2	AUX FW PP AREA VENT FOXBORO N-2AO-V2I E/I CONVERTER	INL & EXH QOAB50 392 N-2AO+V2I	CB	RH Y N NS(B)-017 REV 1B IEEE 344,323			A

DHPF - DAMPER, FIRE

3HVQ*DHPF1	FIRE DAMPER	44453-1/0801 565	ESB 00036	DM Y N 12179-NS(B)-010 IEEE-344	.32.13	N	MF	MD	NA	NA	NA	A	Y
3HVQ*DMPF10	FIRE DAMPER	44453-1/0801 565	ESB 00036	DM Y N 12179-NS(B)-010 IEEE-344	.32.13	N	MF	MD	NA	NA	NA	A	Y
3HVQ*DHPF11	FIRE DAMPER	44453-1/0801 565	ESB 00036	DM Y N 12179-NS(B)-010 IEEE-344	.32.13	N	MF	MD	NA	NA	NA	A	Y
3HVQ*DHPF12	FIRE DAMPER	44453-1/0801 565	ESB 00036	DM Y N 12179-NS(B)-010 IEEE-344	.40.14	N	MF	MD	NA	NA	NA	A	Y

REPORT NO. MSSQT1

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS			STATUS	
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ INS
3HVQ*DMPF13	FIRE DAMPER	44453-1/0801 565	ESB 00036	DM	Y	N	.40.14	N	MF	MD	NA	NA	NA	A Y
							12179-NS(B)-010 IEEE-344							
3HVQ*DMPF14	FIRE DAMPER	44453-1/0801 565	ESB 00036	DM	Y	N	.40.14	N	MF	MD	NA	NA	NA	A Y
							12179-NS(B)-010 IEEE-344							
3HVQ*DMPF15	FIRE DAMPER	44453-1/0801 565	ESB 00036	DM	Y	N	.40.14	N	MF	MD	NA	NA	NA	A Y
							12179-NS(B)-010 IEEE-344							
3HVQ*DMPF16	FIRE DAMPER	44453-1/0801 565	ESE 00036	DM	Y	N	.40.14	N	MF	MD	NA	NA	NA	A Y
							12179-NS(B)-010 IEEE-344							
3HVQ*DMPF17	FIRE DAMPER	44453-1/0801 565	ESB 00036	DM	Y	N	.40.14	N	MF	MD	NA	NA	NA	A Y
							12179-NS(B)-010 IEEE-344							
3HVQ*DMPF18	FIRE DAMPER	44453-1/0801 565	ESB 00036	DM	Y	N	.40.14	N	MF	MD	NA	NA	NA	A Y
							12179-NS(B)-010 IEEE-344							
3HVQ*DMPF19	FIRE DAMPER	44453-1/0801 565	ESB 00036	DM	Y	N	.40.14	N	MF	MD	NA	NA	NA	A Y
							12179-NS(B)-010 IEEE-344							

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQS	STATUS
	VENDOR	QUAL REPORT	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
	VEND MODEL	SPEC	RRS REF	DYN. INPUT	FREQ DIR		
	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)			
3HVQ*DMPF2	FIRE DAMPER	44453-1/0801 565	ESB 00036 DM	Y N .40.14 N	HF MD NA NA NA	A Y	
			12179-NS(B)-010	IEEE-344			
3HVQ*DMPF26	FIRE DAMPER	44453-1/0801 565	ESB 00036 DM	Y N .32.13 N	HF MD NA NA NA	A Y	
			12179-NS(B)-010	IEEE-344			
3HVQ*DMPF3	FIRE DAMPER	44453-1/0801 565	ESB 00036 DM	Y N .40.14 N	HF MD NA NA NA	A Y	
			12179-NS(B)-010	IEEE-344			
3HVQ*DMPF4	FIRE DAMPER	44453-1/0801 565	ESB 00036 DM	Y N .32.13 N	HF MD NA NA NA	A Y	
			11279-NS(B)-010	IEEE-344			
3HVQ*DMPF5	FIRE DAMPER	44453-1/0801 565	ESB 00036 DM	Y N .32.13 N	HF MD NA NA NA	A Y	
			11279-NS(B)-010	IEEE-344			
3HVQ*DMPF6	FIRE DAMPER	44453-1/0801 565	ESB 00036 DM	Y N .40.14 N	HF MD NA NA NA	A Y	
			12179-NS(B)-010	IEEE-344			
3HVQ*DMPF7	FIRE DAMPER	44453-1/0801 565	ESB 00036 DM	Y N .40.14 N	HF MD NA NA NA	A Y	
			12179-NS(B)-010	IEEE-344			

BUCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

[illegible]

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3HVQ*DMPF8      FIRE DAMPER      ESB 00036 DH    Y    N    .32.13  N    MF    MD    NA    NA    NA    A    Y
                44453-1/0801      12179-NS( )-010
                565                IEEE-344

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3HVQ*DMPF9	FIRE DAMPER	ESB 00036 DM	Y	N	.32.13	N	MF	MD	NA	NA	NA	A	Y
		44453-1/0801			12179-NS(B)-010								
		565			IEEE-344								

DMP - DAMPER

3HVQ*DHP1	MANUAL VOL. DAMPER		ESB 00036 HM Y N .40.14 S NA NA 33+ NA NA A Y
		90267-303	NS(B)-010
NVC-42		583	AHCA-500-75

3HVQxDMP10	HANUAL VOL. DAMPER		ESB 00021 HH	Y	N	.23.12 S	NA	NA	33+	NA	NA	A Y
		90267-303		NS(B)-010								
	NVC-42	583		AMCA-500-75								

3HVQ*DHP11	MANUAL VOL. DAMPER		ESB 00021	HM	Y	N	.32.13	S	NA	NA	33+	NA	NA	A Y
		90267-303					NS(B)-010							
	NVC-42	583					AMCA-500-75							

3HVQ*DMP12	MANUAL VOL. DAMPER		ESB 00021 HM Y N .32.13 S NA NA 33+ NA NA A Y
		90267-303	NS(B)-010
	NVC-42	583	AMCA-500-75

3HVQ*DMP13	MANUAL VOL. DAMPER		ESB 00021 HM Y N .23.12 S NA NA 33+ NA NA A Y
		90267-303	NS(B)-010
NVC-42		583	AHCA-500-75

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV HTG	SEIS	OTHER REQ'D	DYN.	INPUT	(ZPA)	ANLYS TEST TEST FREQ DIR	NAT FREQS	F/B	S/S	VERT	SQ IN	STATUS
3HVQ*DMP14	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00021	HM	Y	N	.32.13	S	NA NA	33+	NA	NA	A	Y	
3HVQ*DMP15	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00004	HM	Y	N	.23.12	S	NA NA	33+	NA	NA	A	Y	
3HVQ*DMP16	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00004	HM	Y	N	.20.12	S	NA NA	33+	NA	NA	A	Y	
3HVQ*DMP18	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00036	HM	Y	N	.40.14	S	NA NA	33+	NA	NA	A	Y	
3HVQ*DMP19	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00021	HM	Y	N	.32.13	S	NA NA	33+	NA	NA	A	Y	
3HVQ*DMP2	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00036	HM	Y	N	.40.14	S	NA NA	33+	NA	NA	A	Y	
3HVQ*DMP20	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00021	HM	Y	N	.32.13	S	NA NA	33+	NA	NA	A	Y	

3HVQ*DHP22	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00036 HM Y N .32.13 S NA NA 33+ NA NA A Y NS(B)-010 AMCA-500-75
3HVQ*DHP24	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00004 HM Y N .23.12 S NA NA 33+ NA NA A Y NS(B)-010 AMCA-500-75
3HVQ*DHP25	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00004 HM Y N .20.12 S NA NA 33+ NA NA A Y NS(B)-010 AMCA-500-75
3HVQ*DHP26	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00036 HM Y N .32.13 S NA NA 33+ NA NA A Y NS(B)-010 AMCA-500-75
3HVQ*DHP27	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00021 HM Y N .23.12 S NA NA 33+ NA NA A Y NS(B)-010 AMCA-500-75
3HVQ*DHP28	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00036 HM Y N .32.13 S NA NA 33+ NA NA A Y NS(B)-010 ACMA-500-75
3HVQ*DHP29	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00036 HM Y N .32.13 S NA NA 33+ NA NA A Y NS(B)-010 ACHA-500-75

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
3HVQ*DMP3	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00036	HM	Y	N	.32.13	S	NA	NA	33+	NA	NA	A	Y	
3HVQ*DMP30	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00036	HM	Y	N	.32.13	S	NA	NA	33+	NA	NA	A	Y	
3HVQ*DMP31	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00036	HM	Y	N	.32.13	S	NA	NA	33+	NA	NA	A	Y	
3HVQ*DMP32	MANUAL VOL. DAMPER NVC-	90267-303 583	ESB 00036	HM	Y	N	.40.14	S	NA	NA	33+	NA	NA	A	Y	
3HVQ*DMP33	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00036	HM	Y	N	.32.13	S	NA	NA	33+	NA	NA	A	Y	
3HVQ*DMP34	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00036	HM	Y	N	.32.13	S	NA	NA	33+	NA	NA	A	Y	
3HVQ*DMP35	MANUAL VOL. DAMPER NVC-42	90267-303 583	ESB 00036	HM	Y	N	.32.13	S	NA	NA	33+	NA	NA	A	Y	

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
				RRS REF	DYN.	INPUT	(ZPA)		FREQ	DIR						
3HVQ*DHP36	MANUAL VOL. DAMPER	90267-303	ESB 00036	HM	Y	N	.32.13	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	583		NS(B)-010			AMCA-500-75									
3HVQ*DMP4	MANUAL VOL. DAMPER	90267-303	ESB 00021	HM	Y	N	.32.13	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	583		NS(B)-010			AMCA-500-75									
3HVQ*DMP5	MANUAL VOL. DAMPER	90267-303	00021	HM	Y	N	.32.13	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	583		NS(B)-010			AMCA-500-75									
3HVQ*DMP6	MANUAL VOL. DAMPER	90267-303	ESB 00036	HM	Y	N	.32.13	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	583		NS(B)-010			AMCA-500-75									
3HVQ*DMP7	MANUAL VOL. DAMPER	90267-303	ESB 00036	HM	Y	N	.32.13	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	583		NS(B)-010			AMCA-500-75									
3HVQ*DHP8	MANUAL VOL. DAMPER	90267-303	ESB 00036	HM	Y	N	.40.14	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	583		NS(B)-010			AMCA-500-75									
3HVQ*DMP9	MANUAL VOL. DAMPER	90267-303	ESB 00036	HM	Y	N	.40.14	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	583		NS(B)-010			AMCA-500-75									

AOD - DAMPER, AIR OPERATED

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVQ*A0040A	SI & QSS AND RES HX AREAS EXH AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036 CH	Y N .40.14 N	SF SD	35+ 29 29	A
				NS(B)-010 REV 0B IEEE-323,344-382			
3HVQ*A0040B	SI & QSS AND RES HX AREAS EXHC AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036 CH	Y N .40.14 N	SF SD	35+ 29 29	A
				NS(B)-010 REV 0B IEEE-323,344-382			
3HVQ*A0040C	SI & QSS AND RES HX AREAS EXH AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036 CH	Y N .40.14 N	SF SD	35+ 29 29	A
				NS(B)-010 REV 0B IEEE-323,344-382			
3HVQ*A0040D	SI & QSS AND RES HX AREAS EXH AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036 CH	Y N .40.14 N	SF SD	35+ 29 29	A
				NS(B)-010 REV 0B IEEE-323,344-382			
3HVQ*A0041A	SI & QSS AND RES HX AREA SPLY AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036 CH	Y N .32.13 N	SF SD	35+ 29 29	A
				NS(B)-010 REV 0B IEEE-323,344-382			
3HVQ*A0041B	SI & QSS AND RES HX AREA SPLY AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036 CH	Y N .32.13 N	SF SD	35+ 29 29	A
				NS(B)-010 REV 0B IEEE-323,344-382			
3HVQ*A0041C	SI & QSS AND RES HX AREA SPLY AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036 CH	Y N .32.13 N	SF SD	35+ 29 29	A
				NS(B)-010 REV 0B IEEE-323,344-382			

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
3HVQ*A0D41D	SI & QSS AND RES HX AREA SPLY AMERICAN WARNING AWV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036	CH	Y	N	.32.13	N	SF	SD	35+	29	29	A		
3HVQ*A0D42A	CONT RECIRC PPS & CLRS AREA EX AMERICAN WARNING AWV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036	CH	Y	N	.40.14	N	SF	SD	35+	29	29	A		
3HVQ*A0D42B	CONT RECIRC PPS & CLRS AREA EX AMERICAN WARNING AWV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036	CH	Y	N	.40.14	N	SF	SD	35+	29	29	A		
3HVQ*A0D42C	CONT RECIRC PPS & CLRS AREA EX AMERICAN WARNING AWV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036	CH	Y	N	.40.14	N	SF	SD	35+	29	29	A		
3HVQ*A0D42D	CONT RECIRC PPS & CLRS AREA EX AMERICAN WARNING AWV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036	CH	Y	N	.40.14	N	SF	SD	35+	29	29	A		
3HVQ*A0D43A	CONT RECIRC PPS&CLRS AREA SPLY AMERICAN WARNING AWV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036	CH	Y	N	.40.14	N	SF	SD	35+	29	29	A		
3HVQ*A0D43B	CONT RECIRC PPS&CLRS AREA SPLY AMERICAN WARNING AWV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	ESB 00036	CH	Y	N	.32.13	N	SF	SD	35+	29	29	A		

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	SPEC			RRS REF	DYN.	INPUT		FREQ	DIR					
	VEND MODEL	MANUFAC MODEL			CODES		(ZPA)								
3HVQ*A0D43C	CONT RECIRC PPS&CLRS AMERICAN HARMING ANV-7402 NAMCO LIMIT SWITCH	AREA SPLY 80271-301 594 EA740	ESB 00036	CH	Y	N	.32.13	N	SF	SD	35+	29	29	A	
3HVQ*A0D43D	CONT RECIRC PPS&CLRS AMERICAN HARMING ANV-7402 NAMCO LIMIT SWITCH	AREA SPLY 80271-301 594 EA740	ESB 00036	CH	Y	N	.32.13	N	SF	SD	35+	29	29	A	
MOD - DAMPER,MOTOR OPERATED															
3HVQ*MOD26A1	AUX FW PP AREA VENT AMERICAN HARMING ANV-7402 NAMCO LIMIT SWITCH	INL & EXH 80271-301 594 EA740	ESB 00038	CH	Y	N	.40.14	N	SF	SD	35+	29	29	A	
3HVQ*MOD26A2	AUX FW PP AREA VENT AMERICAN HARMING ANV-7402 NAMCO LIMIT SWITCH	INL & EXH 80271-301 594 EA740	ESB	CH	Y	N	.40.14	N	SF	SD	35+	29	29	A	
3HVQ*MOD26B1	AUX FW PP AREA VENT AMERICAN HARMING ANV-7402 NAMCO LIMIT SWITCH	INL & EXH 80271-301 594 EA740	ESB 00047	CH	Y	N	.40.14	N	SF	SD	35+	29	29	A	
3HVQ*MOD26B2	AUX FW PP AREA VENT AMERICAN HARMING ANV-7402 NAMCO LIMIT SWITCH	INL & EXH 80271-301 594 EA740	ESB 00047	CH	Y	N	.40.14	N	SF	SD	35+	29	29	A	
3HVQ*MOD26C1	AUX FW PP AREA VENT AMERICAN HARMING ANV-7402 NAMCO LIMIT SWITCH	INL & EXH 80271-301 594 EA740	ESB 00043	CH	Y	N	.40.14	N	SF	SD	35+	29	29	A	

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	NAT FREQS VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR	
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

一、本行在2019年12月31日及2019年度，均符合《公司法》及《证券法》规定的上市条件，不存在《公司法》第一百四十二条及《证券法》第五十条规定的不得上市的情形。

3HVQXMOD26C2	AUX FW PP AREA VENT INL & EXH	ESB 00043 CN	Y	N	.40.14 N	SF	SD	35+	29	29	A
	AMERICAN WARNING	80271-301	NS(B)-010 REV 03								
	ANV-7402	594	IEEE-323,344,382								
	NANCO LIMIT SWITCH	EA740									

SOV - VALVE, SOLENOID

3HVQ*SOV40A SI & QSS AND RES HX AREAS EXH ESB 00051 DM Y N .40.14 M SF SD * 35+ A
AMERICAN WARNING AQR-67638 NS(B)-010 REV 0B
NPK8320A182E 594 IEEE-323,344,382,627
ASCO SOLENOID NPK8320E

3HVQ#SOV40B	SI & QSS AND RES HX AREAS EXH	ESB 00051 DH Y N .40.14 N SF SD * 35+ A
	AMERICAN WARNING AQR-67638	NS(B)-010 REV 0B
	NPK8320A182E 594	IEEE-323,344,382,627
	ASCO SOLENOID NPK8320E	

3HVQ*SOV40C	SI & QSS AND RES HX AREAS EXH	ESB 00051 DM Y N .40.14 N SF SD * 35+ A
	AMERICAN WARNING AQR-67638	NS(B)-010 REV 0B
	NPK8320A182E 594	IEEE-323,344,382,627
	ASCO SOLENOID NPK8320F	

3HVQ*SOV40D	SI & QSS AND RES HX AREAS EXH	ESB 00051 DM	Y	N	.40.14	N	SF	SD	*	35+	A	
	AMERICAN WARNING	AQR-67638	NS(B)-010 REV CB									
	NPK8320A182E	594	IEEE-323,344,382,627									
	ASCO SOLENOID	NPK8320E										

SHVQ#SOV41A	SI & QSS AND RES HX AREA SPLY	ESB 00036 DM Y N .32.13 N SF SD *	35+	A
	AMERICAN WARMING AQR-67638	NS(B)-010 REV OB		
	NPK8320A182E 594	IEEE-323,344,382,627		
	ASCO SOLENOID NPK8320E			

3HVQ#SOV41B	SI & QSS AND RES HX AREA SPLY	ESB 00036 DM Y N .32.13 N SF SD * 35+ A
	AMERICAN WARMING AQR-67638	NS(B)-010 REV 0B
	NPK8320A182E 594	IEEE-323,344,362,627
	ASCO SOLENOID NPK 8320E	

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
				RRS REF	DYN.	INPUT										
				CODES		(ZPA)										
3HVQ*SOV41C	SI & QSS AND RES HX AREA SPLY AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	ESB 00036	DM	Y	N	.32.13	N	SF	SD	*	35+				A
				NS(B)-010 REV 0B IEEE-323,344,382,627												
3HVQ*SOV41D	SI & QSS AND RES HX AREA SPLY AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	ESB 00036	DM	Y	N	.32.13	N	SF	SD	*	35+				A
				NS(B)-010 REV 0B IEEE-323,344,382,627												
3HVQ*SOV42A	CONT RECIRC PPS & CLRS AREA EX AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	ESB 00050	DM	Y	N	.40.14	N	SF	SD	*	35+				A
				NS(B)-010 REV 0B IEEE-323,344,382,627												
3HVQ*SOV42B	CONT RECIRC PPS & CLRS AREA EX AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK 8320E	ESB 00049	DM	Y	N	.40.14	N	SF	SD	*	35+				A
				NS(B)-010 REV 0B IEEE-323,344,382,627												
3HVQ*SOV42C	CONT RECIRC PPS & CLRS AREA EX AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	ESB 00049	DM	Y	N	.40.14	N	SF	SD	*	35+				A
				NS(B)-010 REV 0B IEEE-323,344,382,627												
3HVQ*SOV42D	CONT RECIRC PPS & CLRS AREA EX AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	ESB 00050	DM	Y	N	.40.14	N	SF	SD	*	35+				A
				NS(B)-010 REV 0B IEEE-323,344,382,627												
3HVQ*SOV43A	CONT RECIRC PPS&CLRS AREA SPLY AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	ESB 00036	DM	Y	N	.32.13	N	SF	SD	*	35+				A
				NS(B)-010 REV 0B IEEE-323,344,382,627												

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS			
	DESCRIPTION	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B		S/S	VERT	SQ
	VENDOR	QUAL REPORT	RRS REF	DYN.	INPUT									
	VEND MODEL	SPEC	CODES		(ZPA)									
	MANUFACTURER	MANUFAC MODEL												

3HVQ*SOV43B	CONT RECIRC PPS&CLRS AREA SPLY	ESB 00036	DM	Y	N	.32.13	N	SF	SD	*	35+		A
	AMERICAN WARMING	AQR-67638				NS(B)-010 REV 0B							
	NPK8320A182E	594				IEEE-323,344,382,627							
	ASCO SOLENOID	NPK8320E											
3HVQ*SOV43C	CONT RECIRC PPS&CLRS AREA SPLY	ESB 00036	D/	Y	N	.32.13	N	SF	SD	*	35+		A
	AMERICAN WARMING	AQR-67638				NS(B)-010 REV 0B							
	NPK8320A182E	594				IEEE-323,344,382,627							
	ASCO SOLENOID	NPK 8320E											
3HVQ*SOV43D	CONT RECIRC PPS&CLRS AREA SPLY	ESB 00036	DM	Y	N	.32.13	N	SF	SD	*	35+		A
	AMERICAN WARMING	AQR-67638				NS(B)-010 REV 0B							
	NPK8320A182E	594				IEEE-323,344,382,627							
	ASCO SOLENOID	NPK8320E											

DHP - DAMPER

3HVQ*DHP17	MANUAL VOL. DAMPER	ESB 00021		Y	N	.40.14	S	NA	NA	66.9	35.3	158.0	A	Y
		DD-5771-2S,REV.A				NS(B)-010,REV.0B								
		668				NA								

TE - TEMPERATURE ELEMENT, PRIMARY

3HVQ*TE26A	AUX FW PP AREA VENT INL & EXH	ESB 00038	DM	Y	N	.40.14	N	MF	MD		33+		A	Y
	NEED INSTRUMENT CO	3035-00125-14				NS(B)-010,REV 0B								
	0358-00125-007	683				IEEE 323,344								
	NEED RTD	611												
3HVQ*TE26B	AUX FW PP AREA VENT INL & EXH	ESB 00038	DM	Y	N	.40.14	N	MF	MD		33+		A	Y
	NEED INSTRUMENT CO	3035-00125-14				NS(B)-010,REV 0B								
	0358-00125-007	683				IEEE 323,344								
	NEED RTD	611												

FS - SWITCH, FLOW

DOCKET NO. 50-423

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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVQ - VENTILATION - ENGINEERED SAFETY FEATURES BLDG

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

Figure 1. The location of the study area in the Yangtze River Delta.

3HVQ#F553A	ESF BLDG SUPPLY FAN DISCH FLUID COMPONENTS 708126 REV.3 FR72-4R 686 FLOW SWITCH FR72-4	ESB	EM Y N .75G NA SF MD		33+	A Y
			REG.189 AND IEEE-344,1975			
3HVQ#F553B	ESF BLDG SUPPLY FAN DISCH FLUID COMPONENTS 708126 REV.3 FR72-4R 686 FLOW SWITCH FR72-4	ESB	EM Y N .75G NA SF MD		33+	A Y
			REG.189 AND IEEE-344,1975			

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PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	WLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR				RRS	REF	DYN.	INPUT		FREQ	DIR					
	VEND MODEL	SPEC			CODES			(ZPA)								
	MANUFACTURER	MANUFAC MODEL														

SHEC EQUIPMENT

DMPF - DAMPER, FIRE

3HVR*DMPF27	FIRE DAMPER	44453-1/0801	DM	Y	N	.41.18	N	MF	MD	NA	NA	NA	A	Y		
			12179-NS(B)-007													
			IEEE-344													
3HVR*DMPF60	FIRE DAMPER	44453-1/0801	DM	Y	N	.40.14	N	MF	MD	NA	NA	NA	A	Y		
			12179-NS(B)-010													
			IEEE-344													
3HVR*DMPF61	FIRE DAMPER	44453-1/0801	DM	Y	N	.40.14	N	MF	MD	NA	NA	NA	A	Y		
			12179-NS(B)-010													
			IEEE-344													
3HVR*DMPF62	FIRE DAMPER	44453-1/0801	DM	Y	N	.40.14	N	MF	MD	NA	NA	NA	A	Y		
			12179-NS(B)-010													
			IEEE-344													
3HVR*DMPF64	FIRE DAMPER	44453-1/0801	DM	Y	N	.32.13	N	MF	MD	NA	NA	NA	A	Y		
			12179-NS(B)-010													
			IEEE-344													

FLT - FILTER

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UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT	CQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT			
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

.....

[illegible][illegible]

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3HVR*FLT2A      FILTER      AB 00079 CF  Y  N  .41.18 S  NA  NA  22+  22+  22+  A  Y
                  CUI        HC-1188 & ADD 2  NS(B)-007 REV 0B
                  065          IEEE 344
                  FILTER

```

SHVR*FLT2B	FUEL BLDG FILTER ASSY	AB	00066 CF	Y	N	.41.18 S	NA	NA	22^	22+	22+	A Y
	CVI	HC-1188 & ADD 2	NS(B)-007 REV 0B									
		065	IEEE 344									
	FILTER	N/A										

3HVR*FLT3A SLCRS FILTER UNIT AB 00066 CF Y N .41.18 S NA NA 22+ 22+ 22+ A Y
HC-1188 & ADD 2 NS(B)-007 REV.0B
065 IEEE 344

SHVR*FLT3B	SICRS FILTER UNIT		AB	00066	CF	Y	N	.41.18	S	NA	NA	22+	22+	22+	A Y
CVI	HC-1189 & ADD 2				NS(B)-007	REV	OB								
FILTER	065				IEEE	344									

PDIS - SWITCH, INDICATING, PRESSURE DIFFERENTIAL

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JHVR-PDIS162B      PRE FLT HWU1A & B      AB      F      Y      N      C      Y
                                     NS(B)-007 REV 0B
                                     IEEE-344,323
065

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NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

[illegible]

TS - SWITCH, TEMPERATURE

3HVR-TS175A3	AUX BLDG FLT HTR	AB	EM	Y	N	.41.18	N	MF	MD	NA	NA	NA	C
	A19-AAC-9	16528-1,REV 2 065	NS(B)-007	REV	0B	IEEE	323,344						
3HVR-TS175A4	AUX BLDG FLT HTR	AB	EM	Y	N	.41.18	N	MF	MD	NA	NA	NA	C
	A19-AAC-9	16528-1,REV 2 065	NS(B)-007	REV	0B	IEEE	323,344						
3HVR-TS175B3	AUX BLDG FLT HTR	AB	EM	Y	N	.41.18	N	MF	MD	NA	NA	NA	C
	A19-AAC-9	16528-1,REV 2 065	NS(B)-007	REV	0B	IEEE	323,344						
3HVR-TS175B4	AUX BLDG FLT HTR	AB	EM	Y	N	.41.18	N	MF	MD	NA	NA	NA	C
	A19-AAC-9	16528-1,REV 2 065	NS(B)-007	REV	0B	IEEE	323,344						

FN - FAN

3HVR*FN10A	FUEL BLDG EXH FAN WESTINGHOUSE (2) 29B7 BUFFALO FORGE	82325005-45 140	AB	CH	Y	N	.51.19	S	NA	NA	33+	33+	33+	A	Y
				NS(B)-007-REV.0B AMCA STD/IEEE 323,344/NUREG-0568											
3HVR*FN10B	FUEL BLDG EXH FAN WESTINGHOUSE (2) 29B7 BUFFALO FORGE	82325005-45 140	AB	CH	Y	N	.44.18	S	NA	NA	33+	33+	33+	A	Y
				NS(B)-007-REV.0B AMCA STD/IEEE 323,344/NUREG-0568											

REPORT NO. HSSQT1

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UTILITY NUSCO

DOCKET NO. 50-423

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
				RRS REF	DYN.	INPUT	(ZPA)		FREQ	DIR						
3HVR*FN13A	CHG.PP.CUBICLES EXH FAN BUFFALO FORGE 29B7 WESTINGHOUSE	82325005-45 140 60 H.P.	AB	00066	HM	Y	N	.41.18	S	NA	NA	33+	33+	33+	A	Y
3HVR*FN13B	CHG.PP.CUBICLES EXH.FAN BUFFALO FORGE 29B7 WESTINGHOUSE	82325005-45 140 60 H.P.	AB	00066	HM	Y	N	.41.18	S	NA	NA	33+	33+	33+	A	Y
3HVR*FN14A	CHG.CLG.PP.SPLY FN BUFFALO FORGE 29B5 WESTINGHOUSE	82325005-45 140 40 H.P.	AB	00074	CF	Y	N	.41.18	S	NA	NA	33+	33+	33+	A	Y
3HVR*FN14B	CHG/COMP CLG PP SPLY FN BUFFALO FORGE 29B5 WESTINGHOUSE	82325005-45 140 40 H.P.	AB	00066	CF	Y	N	.41.18	S	NA	NA	33+	33+	33+	A	Y
3HVR*FN6A	AUX BLDG FILTER EXH FAN BUFFALO FORGE 29B7 WESTINGHOUSE	82325005-45 140 75 H.P.	AB	00066	CH	Y	N	.51.19	S	NA	NA	33+	33+	33+	A	Y
3HVR*FN6B	AUX BLDG FILTER EXH FAN BUFFALO FORGE 29B7 WESTINGHOUSE	82325005-45 140 75 H.P.	AB	00066	CH	Y	N	.44.18	S	NA	NA	33+	33+	33+	A	Y
3HVR*FN12A	S.L.C.R.S. EXHAUST FAN BUFFALO FORGE 730 L-21 WESTINGHOUSE	82325472-500 141 75 H.P.	AB	00078	RM	Y	N	.47.19	Y	NA	NA	20+	20+	20+	A	Y

FN - FAN

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	EQUIPMENT----- --- LOCATION --- ---						LOADS ----- ---	QUAL METH -- ---	NAT FREQS ---- ---	STATUS
	DESCRIPTION:	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS	
VENDOR	QUAL REPORT		RRS REF	DYN.	INPUT		FREQ DIR			
VEND MODEL	SPEC		CODES	(ZPA)						
MANUFACTURER	MANUFAC MODEL									

[illegible][illegible]

DMPF - DAMPER, FIRE

3HVR*DMPF1	FIRE DAMPER	AB	00043	DM	Y	N	.32.18	N	MF	MD	NA	NA	NA	A	Y
	44453-1/0601						12179-NS(B)-007								
	565						IEEE-344								

```

3HVR*DMPF10      FIRE DAMPER
                  AB 00066 DM   Y   N  .41.16 N   MF MD   NA   NA   NA   A Y
                  44453-1/0801      12179-NS(B)-007
                  565                IEEE-344

```

3HVR=DMPF11	FIRE DAMPER	AB 00079 DM Y N .56.20 N MF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-007
	565	IEEE-344

3HVR#DMPF12	FIRE DAMPER	AB 00066	CH	Y	N	.56.20	N	MF	MD	NA	NA	NA	A	Y
		44453-1/0801				12179-NS(B)-007								
		565				IEEE-344								

3HVR=DHPF13	FIRE DAMPER	AB 00066 DM Y N .56.20 N HF MD NA NA NA A Y
	44453-1/0801	12179-NS(B)-007
	565	IEEE-344

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3HVR*DMPF14      FIRE DAMPER      AB 00066 DH   Y   N   .56.20 N   MF MD   NA   NA   NA   A Y
                  44453-1/0801      12179-NS(B)-007
                  565                IEEE-344

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PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVR*DMPF15	FIRE DAMPER	44453-1/0801 565	AB 00066 DM	Y N .56.20 N	MF MD NA NA NA	A Y	
				12179-NS(B)-007 IEEE-344			
3HVR*DMPF16	FIRE DAMPER	44453-1/0801 565	AB 00066 DM	Y N .56.20 N	MF MD NA NA NA	A Y	
				12179-NS(B)-007 IEEE-344			
3HVR*DMPF17	FIRE DAMPER	44453-1/0801 565	AB 00066 DM	Y N .41.18 N	MF MD NA NA NA	A Y	
				12179-NS(B)-007 IEEE-344			
3HVR*DMPF18	FIRE DAMPER	44453-1/0801 565	AB 00066 DM	Y N .41.18 N	MF MD NA NA NA	A Y	
				12179-NS(B)-007 IEEE-344			
3HVR*DMPF19	FIRE DAMPER	44453-1/0801 565	AB 00066 DM	Y N .56.20 N	MF MD NA NA NA	A Y	
				12179-NS(B)-007 IEEE-344			
3HVR*DMPF2	FIRE DAMPER	44453-1/0801 565	AB 00043 DM	Y N .32.18 N	MF MD NA NA NA	A Y	
				12179-NS(B)-007 IEEE-344			
3HVR*DMPF20	FIRE DAMPER	44453-1/0801 565	AB 00079 DM	Y N .56.20 N	MF MD NA NA NA	A Y	
				12179-NS(B)-007 IEEE-344			

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	SPEC														
	MANUFACTURER	MANUFAC MODEL														
3HVRWDMPF21	FIRE DAMPER	44453-1/0801 565	FB	00079	DM	Y	N	.56.20	N	MF	MD	NA	NA	NA	A	Y
3HVRWDMPF22	FIRE DAMPER	44453-1/0801 565	AB	00066	DM	Y	N	.56.20	N	MF	MD	NA	NA	NA	A	Y
3HVRWDMPF23	FIRE DAMPER	44453-1/0801 565	AB	00066	DM	Y	N	.56.20	N	MF	MD	NA	NA	NA	A	Y
3HVRWDMPF24	FIRE DAMPER	44453-1/0801 565	AB	00066	DM	Y	N	.56.20	N	MF	MD	NA	NA	NA	A	Y
3HVRWDMPF25	FIRE DAMPER	44453-1/0801 565	AB	00066	DM	Y	N	.56.20	N	MF	MD	NA	NA	NA	A	Y
3HVRWDMPF26	2-3 HR. FIRE DAMPER	44453-1/0801 565	AB	00066	DM	Y	N	.56.20	N	MF	MD	NA	NA	NA	A	Y
3HVRWDMPF28	2-3 HR. FIRE DAMPER	44453-1/0801 565	AB	00066	DM	Y	N	.56.20	N	MF	MD	NA	NA	NA	A	Y

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SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CCOES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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SHVRWDHPF3	FIRE DAMPER		AB	00043	DH	Y	N	.32.18	N	MF	MD	NA	NA	NA	A	Y
		44453-1/0801						12179-NS(B)-007								
		565						IEFF-344								

3HVRWDHPF3C 2-3 HR. FIRE DAMPER AB 00066 DM Y N .56.20 N MF MD NA NA NA A Y
44453-1/0801 12179-NS(B)-007
565 IEEE-344

3HVP*DMPP31 2-3 HR. FIRE DAMPER AB 00066 DM Y N .56.20 N HF MD NA NA NA A Y
44453-1/0801 12179-NS(B)-007
565 IEEE-344

3HVR*DMPF32 2-3 HR. FIRE DAMPER AB 00066 DM Y N .56.20 N MF MD NA NA NA A Y
44453-1/0801 12179-NS(B)-007
565 IEEE-344

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3HVR*DMPF4      FIRE DAMPER      AB 00066 DM   Y   N   .41.18 N   MF   MD   NA   NA   NA   NA   A Y
                44453-1/0801      12179-NS(B)-007
                565                IEEE-344

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3HVR*DMPF42	FIRE DAMPER	AB	00066	DM	Y	N	.41.18	N	HF	MD	NA	NA	NA	A	Y
		44453-1/0801					12179-NS(B)-007								
		565					IEEE-344								

3HVR*DPHF44 2-3 HR. FIRE DAMPER AB 00066 DM Y N .56.20 N HF MD NA NA NA A Y
44453-1/0801 12179-NS(B)-007
565 IEEE-344

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SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
						RRS REF CODES	DYN.	INFUT (ZPA)									
3HVR*DMPF5	FIRE DAMPER	44453-1/0801 565	AB	00066	DM	Y	N	.41.18	N	MF	MD	NA	NA	NA	A	Y	
						12179-NS(B)-007 IEEE-344											
3HVR*DMPF50	FIRE DAMPER	44453-1/0801 565	AB	00066	DM	Y	N	.56.20	N	MF	MD	NA	NA	NA	A	Y	
						12179-NS(B)-007 IEEE-344											
3HVR*DMPF51	FIRE DAMPER	44453-1/0801 565	FB	00024	DM	Y	N	.56.20	N	MF	MD	NA	NA	NA	A	Y	
						12179-NS(B)-007 IEEE-344											
3HVR*DMPF6	FIRE DAMPER	44453-1/0801 565	AB	00024	DM	Y	N	.27.16	N	MF	MD	NA	NA	NA	A	Y	
						12179-NS(B)-007 IEEE-344											
3HVR*DMPF7	FIRE DAMPER	44453-1/0801 565	AB	00024	DM	Y	N	.32.18	N	MF	MD	NA	NA	NA	A	Y	
						12179-NS(B)-007 IEEE-344											
3HVR*DMPF8	FIRE DAMPER	44453-1/0801 565	PB	00024	DM	Y	N	.32.18	N	MF	MD	NA	NA	NA	A	Y	
						12179-NS(B)-007 IEEE-344											
3HVR*DMPF9	FIRE DAMPER	44453-1/0801 565	AB	00079	DM	Y	N	.50.20	N	MF	MD	NA	NA	NA	A	Y	
						12179-NS(B)-007 IEEE-344											

FLT - FILTER

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SYSTEM HVR - VENTILATION - REACTOR PLANT

[illegible]

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	BLDG	ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS

3HVR*DMP21	DAMPER		AB	00066	HM	Y	N	.56.20	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	90267-303 583			NS(B)-007 AHCA-500-75												
3HVR*DMP22	DAMPER		AB	00066	HM	Y	N	.56.20	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	90267-303 583			NS(B)-007 AHCA-500-75												
3HVR*DMP24	DAMPER		AB	00066	HM	Y	N	.56.20	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	90267-303 583			NS(B)-007 AHCA-500-75												
3HVR*DMP27	DAMPER		AB	00066	HM	Y	N	.56.20	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	90267-303 583			NS(B)-007 AHCA-500-75												
3HVR*DMP30	DAMPER		AB	00066	HM	Y	N	.41.18	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	90267-303 583			NS(B)-007 AHCA-500-75												
3HVR*DMP32	DAMPER		AB	00066	HM	Y	N	.56.20	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	90267-303 583			NS(B)-007 AHCA-500-75												
3HVR*DMP33	DAMPER		AB	00024	HM	Y	N	.27.16	S	NA	NA	33+	NA	NA	A	Y	
	NVC-42	90267-303 583			NS(B)-007 AHCA-500-75												

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

[illegible]

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLOG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVR*DMP40	DAMPER	90267-303 583	AB 00043 HM Y N	.41.18 S	NA NA	33+ NA NA	A Y
	NVC-42			NS(B)-007 ANCA-500-75			
3HVR*DMP41	DAMPER	70267-303 583	AB 00043 HM Y N	.41.18 S	NA NA	33+ NA NA	A Y
	NVC-42			NS(B)-007 ANCA-500-75			
3HVR*DMP43	DAMPER	90267-303 583	AB 00066 HM Y N	.41.18 S	NA NA	33+ NA NA	A Y
	NVC-42			NS(B)-007 ANCA-500-75			
3HVR*DMP44	DAMPER	90267-303 583	AB 00043 HM Y N	.32.18 S	NA NA	33+ NA NA	A Y
	NVC-42			NS(B)-007 ANCA-500-75			
3HVR*DMP45	DAMPER	90267-303 583	AB 00043 HM Y N	.32.18 S	NA NA	33+ NA NA	A Y
	NVC-42			NS(B)-007 ANCA-500-75			
3HVR*DMP46	DAMPER	90267-303 583	AB 00043 HM Y N	.41.18 S	NA NA	33+ NA NA	A Y
	NVC-42			NS(B)-007 ANCA-500-75			
3HVR*DMP47	DAMPER	90267-303 583	AB 00043 HM Y N	.41.18 S	NA NA	33+ NA NA	A Y
	NVC-42			NS(B)-007 ANCA-500-75			

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/64

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS			STATUS			
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG	ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
3HVR*DMP7	DAMPER	90267-303	AB	00043	HM	Y	N	.32.18	S	NA	NA	33+	NA	NA	A	Y
	NVC-42	583						NS(B)-007								
								ANCA-500-75								
3HVR*DMP8	DAMPER	90267-303	AB	00043	HM	Y	N	.32.18	S	NA	NA	33+	NA	NA	A	Y
	NVC-42	583						NS(B)-007								
								ANCA-500-75								
3HVR*DMP9	DAMPER	90267-303	AB	00043	HM	Y	N	.32.18	S	NA	NA	33+	NA	NA	A	Y
	NVC-42	583						NS(B)-007								
								ANCA-500-75								

AOD - DAMPER, AIR OPERATED

3HVR*AOD174A	CNTMNT PRG HTG&VT UNIT INL DM AMERICAN WARNING 80271-301 AHV-7402 594 NANCO LIMIT SWITCH EA740	AB		CN	Y	N	.56.20	N	SF	SD	35+	29	29	A
								NS(B)-007 REV 0B						
								IEEE-323,344,382						
3HVR*AOD174B	CNTMNT PRG HTG&VT UNIT INL DM AMERICAN WARNING 80271-301 AHV-7402 594 NANCO LIMIT SWITCH EA740	AB		CN	Y	N	.56.20	N	SF	SD	35+	29	29	A
								NS(B)-007 REV 0B						
								IEEE-323,344,382						
3HVR*AOD198A	MCC, ROD CONT & CBL VLT EXH AMERICAN WARNING 80271-301 AHV-7402 594 NANCO LIMIT SWITCH EA740	AB		CN	Y	N	.56.20	N	SF	SD	35+	29	29	A
								NS(B)-007 REV 0B						
								IEEE-323,344,382						
3HVR*AOD198B	MCC, ROD CONT & CBL VLT EXH AMERICAN WARNING 80271-301 AHV-7402 594 NANCO LIMIT SWITCH EA740	AB		CN	Y	N	.56.20	N	SF	SD	35+	29	29	A
								NS(B)-007 REV 0B						
								IEEE-323,344,382						

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS	
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS OTHER	REQ'D DYN. INPUT (ZPA)	ANLYS TEST	TEST	F/B	S/S	VERT	SQ INS
3HVR#A0D199A	MCC, ROD CONT & CBL VLT EXH AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	CH	Y	N .56.20	N	SF	SD	35+	29	29 A
3HVR#A0D199B	MCC, ROD CONT & CBL VLT EXH AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	CH	Y	N .56.20	N	SF	SD	35+	29	29 A
3HVR#A0D20A	AUX BLDG FLT IN DMPR AMERICAN WARNING AHV7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066	CH	Y N .56.20	N	SF	SD	35+	29	29 A Y
3HVR#A0D20B	AUX BLDG FLT IN DMPR AMERICAN WARNING AHV7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066	CH	Y N .56.20	N	SF	SD	35+	29	29 A Y
3HVR#A0D29A	CNTMNT VENT TO AUX BLDG FLT AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066	CH	Y N .56.20	N	SF	SD	35+	29	29 A
3HVR#A0D29B	CNTMNT VENT TO AUX BLDG FLT AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066	CH	Y N .56.20	N	SF	SD	35+	29	29 A
3HVR#A0D32A	CNTMNT VENT NORM OUTL AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB		CH	Y N .56.20	N	SF	SD	35+	29	29 A

REPORT NO. MSSQTI

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

1. 本行在 2019 年 12 月 31 日及 2018 年 12 月 31 日，均无因提供担保而形成的或有负债。

3HVR#A0032B	CNTHT VENT NORM OUTL	AB	CH	Y	N	.56.20	N	SF	SD	35+	29	29	A
	AMERICAN WARNING	80271-301	NS(9)-007 REV 0B										
	AWV-7402	594	IEEE-323,344,382										
	NAMCO LIMIT SWITCH	EA740											

3HVR#A0D33A	AUX BLD HTG&VNT UNIT INL DMPR	AB 00066 CH Y N .5'.20 N SF SD 35+ 29 29 A
	AMERICAN WARMING	80271-301 NS(B)-007 REV 0B
	AKW-7402	594 IEEE-323,344,362
	NANCO LIMIT SWITCH	EA740

3HVR#A0D33B	AUX BLD HTG&VNT UNIT INL DMPR	AB 00066 CH Y N .56.20 N SF SD 35+ 29 29 A
	AMERICAN HARMING 80271-301	NS(B)-007 REV 0B
	AKV-7402 594	IEEE-323,344,382
	NAMCO LIMIT SWITCH EA740	

3HVR#A0D35A	AUX BLD HTC&VNT UNIT INL DMPR	AB 00066 CW Y N .56.20 N SF SD 35+ 29 29 A
	AMERICAN WARNING 80271-301	NS(B)-007 REV 0B
	ANV-7402 594	IEEE-323,344,382
	NAHCO LIMIT SWITCH EA740	

3HVR#A0D35B	AUX BLD HTG&WNT UNIT INL DMPR	AB 00066 CW Y N .56.20 N SF SD 35+ 29 29 A
	AMERICAN HARMING 80271-301	NS(B)-007 REV 08
	ANV-7402 594	IEEE-323,344,382
	NAMCO LIMIT SWITCH EA740	

3HVRWAO039A	AUX BLD EXH FN TO ATM ISL DMP	AB 00066 CW Y N .56.20 N SF SD 35+ 29 29 A
	AMERICAN WARMING 80271-301	NS(B)-007 REV 0B
	ANV-7402 594	IEEE-323,344,302
	NANCO LIMIT SWITCH EA740	

3HVR#A0039B	AUX BLD EXH FN TO ATM ISL DHP	AB 00066 CW Y N .56.20 N SF SD 35+ 29 29 A
	AMERICAN HARMING 80271-301	NS(B)-007 REV 0B
	ANV-7402 594	IEEE-323,344,382
	NANCO LIMIT SWITCH EA740	

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER REQ'D	ANLYS TEST TEST	QUAL METH	NAT FREQS	STATUS
				RRS REF	DYN. INPUT	FREQ DIR	F/B	S/S	VERT	SQ INS
				CODES	(ZPA)					
3HVR*A0040A	AUX BLD EXH FN TO ATM ISL DMP AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066	CH	Y	N	.56.20 N	SF SD	35+	29 29 A
				NS(B)-007 REV 0B IEEE-323,344,382						
3HVR*A0040B	AUX BLD EXH FN TO ATM ISL DMP AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066	CH	Y	N	.56.20 N	SF SD	35+	29 29 A
				NS(B)-007 REV 0B IEEE-323,344,382						
3HVR*A0042A	AUX BLDG EXH FAN DISH TO FLT AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066	CH	Y	N	.41.18 N	SF SD	35+	29 29 A
				NS(B)-007 REV 0B IEEE-323,344,382						
3HVR*A0042B	AUX BLDG EXH FAN DISH TO FLT AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066	CH	Y	N	.41.18 N	SF SD	35+	29 29 A
				NS(B)-007 REV 0B IEEE-323,344,382						
3HVR*A0043A	AUX BLDG EXH FAN DISH TO FLT AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066	CH	Y	N	.56.20 N	SF SD	35+	29 29 A
				NS(B)-007 REV 0B IEEE-323,344,382						
3HVR*A0043B	AUX BLDG EXH FAN DISH TO FLT AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066	CH	Y	N	.56.20 N	SF SD	35+	29 29 A
				NS(B)-007 REV 0B IEEE-323,344,382						
3HVR*A0044A	CHG PHP CUB MORH OUTL DMP AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066	CH	Y	N	.56.20 N	SF SD	35+	29 29 A
				NS(B)-007 REV 0B IEEE-323,344,382						

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

.....

3HVR#A0044B	CHG PHP CUB NORM OUTL DMPR	AB 00066 CW Y N .56.20 N SF SD 35+ 29 29 A
	AMERICAN WARMING 80271-301	NS(B)-007 REV 0B
	ANV-7402 594	IEEE-323,344,302
	NANCO LIMIT SWITCH EA740	

3HVR*AO046A	CHG PMP CUB TO AUX BLDG FLT	AB	CW	Y	N	.41.18	N	SF	SD	35+	29	29	A
	AMERICAN WARMING	80271-301	NS(B)-007 REV 08										
	AWV-7402	594	IEEE-323,344,302										
	NAMCO LIMIT SWITCH	EA740											

3HVR*ADD6B	CHG PMP CUB TO AUX BLDG FLT	AB	CW	Y	N	.41.18	N	SF	SD	35+	29	29	A
	AMERICAN WARMING	80271-301	NS(B)-007 REV 05										
	AKV-7402	594	IEEE-323,344,302										
	NANCO LIMIT SWITCH	EA740											

3HVR*A0055A	CNTHT PRG HTG&VNT UNT INL DMP	AB 00066 CW Y N .41.18 N SF SD 35+ 29 29 A
	AMERICAN WARMING 80271-301	NS(B)-007 REV 0B
	ARV-7402 594	IEEE-323,344,382
	NANCO LIMIT SWITCH EA740	

3HVR* AOD55B	CNTMT PRG HTG&VNT UNT INL DHP	AB 00066 CW Y N .41.18 N	SF SD 35+ 29 29 A
	AMERICAN WARNING 80271-301	NS(B)-007 REV 0B	
	ANV-7402 594	IEEE-323,344,382	
	NAMCO LIMIT SWITCH EA740		

3HVR*ADD65A	WST BLDG TO AUX BLDG FLT	AB 00066 CW Y N .56.20 N	SF	SD	35+	29	29	A
	AMERICAN WARMING	80271-301	NS(D)-007 REV 0B					
	ANV-7402	594	IEEE-323,344,382					
	NANCO LIMIT SWITCH	EA740						

3HVR*ADD65B	WST BLDG TO AUX BLDG FLT	AB 00066	CH	Y	N	.56.20	N	SF	SD	35+	29	29	A
	AMERICAN WARMING	80271-301	NS(B)-007 REV 08										
	AWV-7402	594	IEEE-323,344,382										
	NAHCO LIMIT SWITCH	EA740											

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3HVR*A0066A	WST DSPSL BLDG VENT TO ATM AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066 CW Y N	.56.20 N	SF SD	35+ 29 29	A
3HVR*A0066B	WST DSPSL BLDG VENT TO ATM AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066 CW Y N	.56.20 N	SF SD	35+ 29 29	A
3HVR*A0080A	FUEL BLDG FLT INL DMPR AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066 CW Y N	.56.20 N	SF SD	35+ 29 29	A Y
3HVR*A0080B	FUEL BLDG FLT INL DMPR AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066 CW Y N	.56.20 N	SF SD	35+ 29 29	A Y
3HVR*A0081A	FUEL BLDG FLT BYPASS DMPR AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066 CW Y N	.56.20 N	SF SD	35+ 29 29	A
3HVR*A0081B	FUEL BLDG FLT BYPASS DMPR AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066 CW Y N	.56.20 N	SF SD	35+ 29 29	A
3HVR*A0085	PP TUN AREA EXH FAN DISCH DMP AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB 00066 CW Y N	.41.18 N	SF SD	35+ 29 29	A

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	LOADS	QUAL METH --	NAT FREQS ----	STATUS
						FREQ DIR	F/B S/S VERT	SQ INS
3HVR#A0D86	PIPE TUN AREA EXH FAN INL DMP AMERICAN WARMING AWV-7402 NAMCO LIMIT SWITCH	EA740 80271-301 594	AB 00066 CH Y N .56.20 N SF SD 35+ 29 29 A	NS(B)-007 REV 0B IEEE-323,344,382				
3HVR#A0D95A	SUPP LK SYS FLT INL DMPR AMERICAN WARMING AWV-7402 NAMCO LIMIT SWITCH	EA740 80271-301 594	AB 00066 CH Y N .56.20 N SF SD 35+ 29 29 A Y	NS(B)-007 REV 0B IEEE-323,344,382				
3HVR#A0D95B	SUPP LK SYS FLT INL DMPR AMERICAN WARMING AWV-7402 NAMCO LIMIT SWITCH	EA740 80271-301 594	AB 00066 CH Y N .56.20 N SF SD 35+ 29 29 A Y	NS(B)-007 REV 0B IEEE-323,344,382				
MOD - DAMPER,MOTOR OPERATED								
3HVR#MOD28A	AUX BLDG FLT EXH FN DISC DMPR AMERICAN WARMING AWV-7402 NAMCO LIMIT SWITCH	EA740 80271-301 594	AB 00086 CH Y N .56.20 N SF SD 35+ 29 29 A Y	NS(B)-007 REV 0B IEEE-323,344,382				
3HVR#MOD28B	AUX BLDG FLT EXH FN DISC DMPR AMERICAN WARMING AWV-7402 NAMCO LIMIT SWITCH	EA740 80271-301 594	AB 00073 CH Y N .56.20 N SF SD 35+ 29 29 A Y	NS(B)-007 REV 0B IEEE-323,344,382				
3HVR#MOD45B1	CHG PHP CUB TEMP CONT AMERICAN WARMING AWV-7402 NAMCO LIMIT SWITCH	EA740 80271-301 594	AB CH Y N .56.20 N SF SD 35+ 29 29 A Y	NS(B)-007 REV 0B IEEE-323,344,382				
3HVR#MOD45B2	CHG PHP CUB TEMP CONT AMERICAN WARMING AWV-7402 NAMCO LIMIT SWITCH	EA740 80271-301 594	AB CH Y N .56.20 N SF SD 35+ 29 29 A Y	NS(B)-007 REV 0B IEEE-323,344,382				

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
3HVR#MOD45C1	CHG PHP CUB TEMP CONT AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB			CH	Y	N	.56.20	N	SF	SD	35+	29	29	A	Y
3HVR#MOD45C2	CHG PHP CUB TEMP CONT AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB			CH	Y	N	.56.20	N	SF	SD	35+	29	29	A	Y
3HVR#MOD49A	CHG PHP CUB OUTL DMPR AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066		CH	Y	N	.41.18	N	SF	SD	35+	29	29	A	
3HVR#MOD49B	CHG PHP CUB OUTL DMPR AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066		CH	Y	N	.41.18	N	SF	SD	35+	29	29	A	
3HVR#MOD49C1	CHG PHP CUB OUTL DMPR AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066		CH	Y	N	.41.18	N	SF	SD	35+	29	29	A	
3HVR#MOD49C2	CHG PHP CUB OUTL DMPR AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066		CH	Y	N	.41.18	N	SF	SD	35+	29	29	A	
3HVR#MOD50A	CHG PHP CUB INL DMPR AMERICAN WARNING ANV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066		CH	Y	N	.41.18	N	SF	SD	35+	29	29	A	

REPORT NO. HSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOLKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS				
	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR				RRS	REF	DYN.	INPUT							
	VEND MODEL	SPEC			CODES			(ZPA)							
	MANUFACTURER	MANUFACT MODEL													

3HVR#MOD50B	CHG PMP CUB INL DMPR AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066	CH	Y	N	.41.18	N	SF	SD	35+	29	29	A
								NS(B)-007 REV 0B IEEE-323,344,382							
3HVR#MOD50C1	CHG PMP CUB INL DMPR AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066	CH	Y	N	.41.18	N	SF	SD	35+	29	29	A
								NS(B)-007 REV 0B IEEE-323,344,382							
3HVR#MOD50C2	CHG PMP CUB INL DMPR AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066	CH	Y	N	.41.18	N	SF	SD	35+	29	29	A
								NS(B)-007 REV 0B IEEE-323,344,382							
3HVR#MOD72A	FUEL BLDG FLT EXH FAN OUT AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066	CH	Y	N	.55.15	N	SF	SD	35+	29	29	A Y
								12179-NS(B)-069 IEEE 344,323,382							
3HVR#MOD72B	FUEL BLDG FLT EXH FAN OUT AMERICAN WARNING AHV-7402 NAMCO LIMIT SWITCH	80271-301 594 EA740	AB	00066	CH	Y	N	.55.15	N	SF	SD	35+	29	29	A Y
								12179-NS(B)-007 IEEE 344,323,382							

SOV - VALVE, SOLENOID

3HVR#SOV174A	CNTMNT PRG HTG&VT UNIT INL DM AMERICAN WARNING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	00066	DM	Y	N	.56.20	N	SF	SD	*	35+		A
								NS(B)-007 REV 0B IEEE-323,344,382,627							
3HVR#SOV174B	CNTMNT PRG HTG&VT UNIT INL DM AMERICAN WARNING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	00066	DM	Y	N	.56.20	N	SF	SD	*	35+		A
								NS(B)-007 REV 0B IEEE-323,344,382,627							

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS	
				RRS REF CODES	DYN.	INPUT	(ZPA)		FREQ	DIR							
3HVR*SOV198A	MCC, ROD CONT & CBL VLT EXH AMERICAN HARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	DM	Y	N	.56.20	N	SF	SD	*	35+				A	
				NS(B)-007 REV 08 IEEE-323,344,382,627													
3HVR*SOV198B	MCC, ROD CONT & CBL VLT EXH AMERICAN HARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	DM	Y	N	.56.20	N	SF	SD	*	35+				A	
				NS(B)-007 REV 08 IEEE-323,344,382,627													
3HVR*SOV199A	MCC, ROD CONT & CBL VLT EXH AMERICAN HARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	DM	Y	N	.56.20	N	SF	SD	*	35+				A	
				NS(B)-007 REV 08 IEEE-323,344,382,627													
3HVR*SOV199B	MCC, ROD CONT & CBL VLT EXH AMERICAN HARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	DM	Y	N	.56.20	N	SF	SD	*	35+				A	
				NS(B)-007 REV 08 IEEE-323,344,382,627													
3HVR*SOV20A	AUX BLDG FLT IN DMPR AMERICAN HARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	00084	DM	Y	N	.56.20	N	SF	SD	*	35+			A	
				NS(B)-007 REV 08 IEEE-323,344,382,627													
3HVR*SOV20B	AUX BLDG FLT IN DMPR AMERICAN HARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	00070	DM	Y	N	.56.20	N	SF	SD	*	35+			A	
				NS(B)-007 REV 08 IEEE-323,344,382,627													
3HVR*SOV29A	CNTHNT VENT TO AUX BLDG FLT AMERICAN HARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	00082	DM	Y	N	.56.20	N	SF	SD	*	35+			A	
				NS(B)-007 REV 08 IEEE-323,344,382,627													

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D	LOADS	NAT FREQS	TEST TEST	F/B	S/S	VERT	SQ INS
				RRS REF CODES	DYN. INPUT (ZPA)		ANLYS	METH	--		
3HVR*SOV29B	CNTNMT VENT TO AUX BLDG FLT AMERICAN WARMING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E		AB 00082 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627							
3HVR*SOV32A	CNTNMT VENT NORM OUTLET AMERICAN WARMING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E		AB 00084 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627							
3HVR*SOV32B	CNTNMT VENT NORM OUTLET AMERICAN WARMING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E		AB 00085 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627							
3HVR*SOV33A	AUX BLDG HTG&VENT UNIT INL DM AMERICAN WARMING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E		AB 00089 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627							
3HVR*SOV33B	AUX BLDG HTG&VENT UNIT INL DM AMERICAN WARMING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E		AB 00089 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627							
3HVR*SOV35A	AUX BLDG HTG & VENT UNIT OUT AMERICAN WARMING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E		AB 00090 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627							
3HVR*SOV35B	AUX BLDG HTG & VENT UNIT OUT AMERICAN WARMING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E		AB 00 0 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627							

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	LOADS REQ'D	ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	SQ INS
3HVR*SOV39A	AUX BLD EXH FN TO ATM ISL DMP AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB 00088 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627				
3HVR*SOV39B	AUX BLD EXH FN TO ATM ISL DMP AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB 00089 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627				
3HVR*SOV40A	AUX BLD EXH FN TO ATM ISL DMP AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB 00082 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627				
3HVR*SOV40B	AUX BLD EXH FN TO ATM ISL DMP AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB 00081 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627				
3HVR*SOV42A	AUX BLDG EXH FAN DSH TO FLTR AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB 00066 DM Y N .41.18 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627				
3HVR*SOV42B	AUX BLDG EXH FAN DSH TO FLTR AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB 00066 DM Y N .41.18 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627				
3HVR*SOV43A	AUX BLDG EXH FAN DSH TO FLTR AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB 00087 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627				

REPORT NO. NSSQT1

PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
			RRS REF	DYN.	INPUT	FREQ	DIR								
			CODES		(ZPA)										
3HVR*SOV43B	AUX BLDG EXH FAN DSH TO FLTR AMERICAN WARNING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	00087	DM	Y	N	.56.20	N	SF	SD	*	35+		A
								NS(B)-007 REV 08 IEEE-323,344,382,627							
3HVR*SOV44A	CHG PHP CUB NORM OUTL DMPR AMERICAN WARNING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	00074	DM	Y	N	.56.20	N	SF	SD	*	35+		A
								NS(B)-007 REV 08 IEEE-323,344,382,627							
3HVR*SOV44B	CHG PHP CUB NORM OUTL DMPR AMERICAN WARNING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	00075	DM	Y	N	.56.20	N	SF	SD	*	35+		A
								NS(B)-007 REV 08 IEEE-323,344,382,627							
3HVR*SOV46A	CHG PHP CUB TO AUX BLDG FLT AMERICAN WARNING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	00066	DM	Y	N	.41.18	N	SF	SD	*	35+		A
								NS(B)-007 REV 08 IEEE-323,344,382,627							
3HVR*SOV46B	CHG PHP CUB TO AUX BLDG FLT AMERICAN WARNING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	00066	DM	Y	N	.41.18	N	SF	SD	*	35+		A
								NS(B)-007 REV 08 IEEE-323,344,382,627							
3HVR*SOV55A	CNTMNT PRG HTG&VNT UNT INL DM AMERICAN WARNING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	00066	DM	Y	N	.41.18	N	SF	SD	*	35+		A
								NS(B)-007 REV 08 IEEE-323,344,382,627							
3HVR*SOV55B	CNTMNT PRG HTG&VNT UNT INL DM AMERICAN WARNING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	AB	00066	DM	Y	N	.41.18	N	SF	SD	*	35+		A
								NS(B)-007 REV 08 IEEE-323,344,382,627							

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

[illegible]

3HVR*SOV65A	WST BLDG TO AUX BLDG FLTR AMERICAN WARNING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E	AB 00087 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627
3HVR*SOV65B	WST BLDG TO AUX BLDG FLTR AMERICAN WARNING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E	AB 00087 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627
3HVR*SOV66A	WST DSPSL BLDG VENT TO ATH AMERICAN WARNING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E	AB 00087 DM Y N .56.20 N SF SD * 35+ A Y	NS(B)-070 REV 0B IEEE-323,344,382,627
3HVR*SOV66B	WST DSPSL BLDG VENT TO ATH AMERICAN WARNING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E	AB 00088 DM Y N .56.20 N SF SD * 35+ A	NS(B)-070 REV 0B IEEE-323,344,382,627
3HVR*SOV80A	FUEL BLDG FLT INL DMPR AMERICAN WARNING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E	AB 00085 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627
3HVR*SOV80B	FUEL BLDG FLT INL DMPR AMERICAN WARNING AQR-67638 NPK8320A182E 594	AB 00080 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627
3HVR*SOV81A	FUEL BLDG FLTR BYP DMPR AMERICAN WARNING AQR-67638 NPK8320A182E 594 ASCO SOLENOID NPK8320E	AB 00090 DM Y N .56.20 N SF SD * 35+ A	NS(B)-007 REV 0B IEEE-323,344,382,627

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PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS						
	DESCRIPTION		BLDG	ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST		TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT				REF	REF	DYN.	INPUT								
	VEND MODEL	SPEC				CODES			(ZPA)								
	MANUFACTURER	MANUFAC MODEL															

3HVR*SOV81B	FUEL BLDG FLTR BYP DMPR		AB	00090	DM	Y	N	.56.20	N	SF	SD	*	35+				A
	AMERICAN WARNING	AQR-67638															
	NPK8320A102E	594															
	ASCO SOLENOID	NPK8320E															
3HVR*SOV85	PIPE TUNNEL INLET DAMPER		AB	00066	DM	Y	N	.41.18	N	SF	SD	*	35+				A
	AMERICAN WARNING	AQR-67638															
	NPK8320A102E	594															
	ASCO SOLENOID	NPK8320E															
3HVR*SOV86	PIPE TUN AREA EXH FAN INL DMP		AB	00090	DM	Y	N	.56.20	N	SF	SD	*	35+				A
	AMERICAN WARNING	AQR-67638															
	NPK8320A102E	594															
	ASCO SOLENOID	NPK8320E															
3HVR*SOV95A	SUPP LEAK SYS FLYR INL DMPR		AB	00084	DM	Y	N	.56.20	N	SF	SD	*	35+				A
	AMERICAN WARNING	AQR-67638															
	NPK8320A104E	594															
	ASCO SOLENOID	NPK8320E															
3HVR*SOV95B	SUPP LEAK SYS FILTR INL DMPR		AB	00080	DM	Y	N	.56.20	N	SF	SD	*	35+				A
	AMERICAN WARNING	AQR-67638															
	NPK8320A104E	594															
	ASCO SOLENOID	NPK8320E															

FE - FLOW ELEMENT

3HVR*FE10A	HI RANGE RAD MON		AB		CM	Y	N	.41.18	N	MF	MD	14.5	14.0	14.0			A
	KMG-HRH	16435															
		624															

RE - RADIOACTIVITY ELEMENT, PRIMARY

REPORT NO. MSSQT1

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
MSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR														
	VEND MODEL	SPEC													
	MANUFACTURER	MANUFAC MODEL													

3HVR*RE10A	VENTILATION VENT GAS		AB	00066	CF	Y	N	.41.18					28.0	B	Y
	KAMAN SCIENCES	K-84-50/16435						NS(B)-007 REV 0B							
	KMG-HRH(450761-012)	624						IEEE-323,344							
	KAMAN	KMG-HR													
3HVR*RE10B	VENTILATION VENT PART		AB	00066	CF	Y	N	.41.18			NA			B	Y
	KAMAN SCIENCES	K-84-50/16683						NS(B)-007 REV 0B							
	KMG-HRN(450758-010)	624						IEEE-323,344							
	KAMAN	KMG-HR													
3HVR*RE19A	SLCRS PARTICULATE		AB	00066	CF	Y	N	.41.18					28.0	B	Y
	KAMAN SCIENCES	K-84-50/16435						NS(B)-007 REV 0B							
	KMG-HRH(450761-012)	624						IEEE-323,344							
	KAMAN	KMG-HR													
3HVR*RE19A1	SLCRS PARTICULATE/GAS		AB	00088	CM	Y	N	.41.18	N	MF	MD	14.5	14.0	14.0	A
	KSC	16435						NS(B)-007 REV 0B							
	KMG-HRH	624						IEEE-323,344							
3HVR*RE19A2	HI RANGE RAD MON		AB	00066	CM	Y	N	.41.18	N	MF	MD	14.5	14.0	14.0	A
		16435						NS(B)-007 REV 0B							
	KMG-HRH	624						IEEE-323,344							
3HVR*RE19A3	PRIMARY RADIOACTIVITY ELEMENT		AB	00066	CM	Y	N	.41.18	N	MF	MD	14.5	14.0	14.0	A
		16435						NS(B)-007 REV 0B							
	KMG-HRH	624						IEEE-323,344							
3HVR*RE19A4	HI RANGE RAD MON		AB	00066	CM	Y	N	.41.18	N	MF	MD	14.5	14.0	14.0	A
		16435						NS(B)-007 REV 0B							
	KMG-HRH	624						IEEE-323,344							

REPORT NO. MSSQT1

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UTILITY NUSCO

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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

.....

3HVRWR219B	SLCRS GAS	AB	00066	CF	Y	N	.41.18	NA	B	Y
	KAHAN SCIENCES	K-84-50/16683					NS(B)-007 REV 0B			
	KMG-HRH(450758-010)	624					IEEE-323,344			
	KAHAN	KMG-HR								

RIY - RADIATION INDICATING RELAY

3HVR*RIY10A	MICROPROCESSOR	AB	CN	Y	N	.56.20	N	MF	MD	19.3	25.0	19.3	A	Y
	KAHAN SCIENCES	K-84-50/16435-A	NS(B)-007,REV 0B											
	KEM-P(4501615-006)	624	IEEE 323,344											
	KAHAN													

3HVR*RIY10B	MICROPROCESSOR		CH	Y	N	.56.20	N	MF	HD	19.3	25.0	19.3	A	Y
	KAMAN SCIENCES	K-84-50/16435-A	NS(B)-007,REV 0B											
	KEN-P(450616-005)	624	IEEE 323,344											
	KAMAN													

3HVR*RIY19A	MICROPROCESSOR	AB	CH	Y	N	.56.20	N	MF	MD	19.3	25.0	19.3	A	Y
	KAMAN SCIENCES	K-84-50/16435-A	NS(B)-007,REV 0B											
	KEH-P(450615-006)	624	IEEE 323,344											

3HVR*RIY19B	MICROPROCESSOR	CH	Y	N	.56.20	N	MF	MD	19.3	25.0	19.3	A	Y
	KAMAN SCIENCES	K-84-50/16435-A	NS(B)-007,REV 0B										
	KEM-P(450616-005)	624	IEEE 323,344										
	KAMAN												

PS - SWITCH,PRESSURE

3HVRWPS182A	AUX BLDG DUCT LO PRESS TRIP	AB 00066 RM Y N .56.20	D Y
	AUTOMATIC SWITCH CO	NS(B)-007-REV 0B	
	SB31AKR/TA31A12R 626	IEEE 323-1974&IEEE344-1975	
	ASCO PRESSURE SWITCH SB21AKR/TE20A32BRX		

[illegible]

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	F/B	S/S	VERT	SQ	INS
				RRS REF	DYN.	INPUT	(ZPA)	METH	--	NAT FREQS	----	STATUS		
				CODES					FREQ DIR					
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
3HVR*DMP54	DAMPER	AB DD-5771-2S,REV.A 668	00066	CW NS(B)-007,REV.0B NA	Y	N	.56.20	S	NA NA	66.9	35.3	158.0	A	Y
3HVR*DMP60	VOLUME DAMPER	HR DD-5771-2S,REV.A 668	00024	CW NS(B)-007,REV.0B NA	Y	N	.56.20	S	NA NA	66.9	35.3	158.0	A	Y
3HVR*DMP70	DAMPER	FB DD-5771-2S,REV.A 668	00052	NS(B)-074,REV.1B NA	Y	N	.48.18	S	NA NA	66.9	..5.3	158.0	A	Y
3HVR*DMP71	DAMPER	FB DD-5771-2S,REV.A 668	00024	NS(B)-074,REV.1B NA	Y	N	.48.18	S	NA NA	66.9	35.3	158.0	A	Y
3HVR*DMP72	DAMPER	FB DD-5771-2S,REV.A 668	00052	NS(B)-074,REV.1B NA	Y	N	.48.18	S	NA NA	66.9	35.3	158.0	A	Y
3HVR*DMP73	DAMPER	FB DD-5771-2S,REV.A 668	00024	NS(B)-074,REV.1B NA	Y	N	.48.18	S	NA NA	66.9	35.3	158.0	A	Y
3HVR*DMP74	DAMPER	FB DD-5771-2S,REV.A 668	00024	NS(B)-074,REV.1B NA	Y	N	.48.18	S	NA NA	66.9	35.3	158.0	A	Y

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER
	VENDOR QUAL REPORT
	SPEC RRS REF DYN INPUT FREQ DIR
	MANUFAC MODEL CODES (ZPA)

.....

3HVRWDMP75 VOLUME DAMPER FB 00024 CW Y N .48.18 S NA NA 66.9 35.3 158.0 A Y
UD-5771-2S,REV.A NS(B)-074,REV.1B
668 NA

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3HVR*DMP80      DAMPER      ESB 00043      Y      N      .40.14 S      NA      NA      66.9  35.3  158.0  A  Y
DD-5771-2S,REV.A      NS(B)-010,REV.0B
668      NA

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TE - TEMPERATURE ELEMENT, PRIMARY

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3HVR*TE45A      CHG PMP CBCL TEMP CONT      AB 00066  DM  Y    N  .56.20  N    MF  MD      33+      A  Y
WEED INSTRUMENT CO  3035-00125-14      NS(8)-007,REV 0B
0350-00125-021      683      IEEE 323,344
WEED RTD          611

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3HVR*TE45B      CHG PMP CUB TEMP CONT      AB 00066  DM  Y   N  .56.20  N    MF  MD      33+      A  Y
WEED INSTRUMENT CO 3035-00125-14      NS(B)-007,REV 0B
0350-00145-021      683      IEEE 323,344
WEED RTD      611

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FS - SWITCH, FLOW

3HVR*FS202A	ACU 1A&B FLOW	AB 00066	EM	Y	N	.75G	NA	SF	MD	33+	A
	FLUID COMPONENTS	700126 REV.3	NA								
	FR72-4R	606	REG.109 AND IEEE-344,1975								
	FLOW SWITCH	FR72-4R									

3PVR*FS202B ACU 1A&B FLOW AB 00066 EM Y N .75G NA SF MD 33+ A
FLUID COMPONENTS 708126 REV.3
FR72-4R 686 REG.109 AND IEEE-344,1975
FLOW SWITCH FR72-4R

REPORT NO. MSSQT1

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UTILITY NUSCO

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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT SQ INS	STATUS
3HVR*FS27A	AUX BLDG FLT EXH FAN DISCH FLUID COMPONENTS FR72-4R FLOW SWITCH	708126 REV.3 686 FR72-4R	AB 00067 EM	Y N .75G NA	SF MD	33+	A
3HVR*FS27B	AUX BLDG FLT EXH FAN DISCH FLUID COMPONENTS FR72-4R FLOW SWITCH	708126 REV.3 686 FR72-4R	AB 00067 EM	Y N .75G NA	SF MD	33+	A
3HVR*FS52A	FN 14A & B LOW FLOW SENSING FLUID COMPONENTS FR72-4R FLOW SWITCH	708126 REV.3 686 FR72-4R	AB 00067 EM	Y N .75G NA	SF MD	33+	A
3HVR*FS52B	FN 14A & B LOW FLOW SENSING FLUID COMPONENTS FR72-4R FLOW SWITCH	708126 REV.3 686 FR72-4R	AB 00067 EM	Y N .75G NA	SF MD	33+	A
3HVR*FS73A	FUEL BLDG FLT EXH FAN OUT FLUID COMPONENTS FR72-4R FLOW SWITCH	708126 REV.3 686 FR72-4R	AB 00067 EM	Y N .75G NA	SF MD	33+	A
3HVR*FS73B	FUEL BLDG FLT EXH FAN OUT FLUID COMPONENTS FR72-4R FLOW SWITCH	708126 REV.3 686 FR72-4R	AB 00067 EM	Y N .75G NA	SF MD	33+	A
3HVR*FS88A	SUPP LK FLT EXH FAN OUT FLUID COMPONENTS FR72-4R FLOW SWITCH	708126 REV.3 686 FR72-4R	AB 00066 EM	Y N .75G NA	SF MD	33+	A

REPORT NO. MSSQT1

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVR - VENTILATION - REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV HTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	LOADS ----- ANLYS TEST TEST F/B S/S VERT SQ INS
3HVR#FS88B	SUPP LK FLT EXH FAN OUT FLUID COMPONENTS FR72-4R FLOW SWITCH	708126 REV.3 686 FR72-4R	AB 00067 EM Y N .75G NA SF MD 33+ A	REG.189 AND IEEE-344,1975	
3HVR#FS98A	CHG PMP CUB EXH FLUID COMPONENTS FR72-4R FLOW SWITCH	708126 REV.3 686 FR72-4R	AB 00067 EM Y N .75G NA SF MD 33+ A	REG 198 AND IEEE-344,1975	
3HVR#FS98B	CHG PMP CUB EXH FLUID COMPONENTS FR72-4R FLOW SWITCH	708126 REV.3 686 FR72-4R	AB 00067 EM Y N .75G NA SF MD 33+ A	REG.198 AND IEEE-344,1975	

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UTILITY MUSCO

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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVS - HTG, VENTILATING, AIR COND. - SYSTEM

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR															
	VEND MODEL	SPEC														
	MANUFACTURER	MANUFAC MODEL														

CHEC EQUIPMENT

PNL - PANEL

3HVS*PNLVP1	MAIN VENT AND AIR COND PANEL	CB	00047	CF	Y	N	.40.15	S	NA	NA	25+	25+	25+	A	Y
	SYSTEMS CONTROL		15829, REV 0				NS(B)-017	REV 1B							
	3HVS*PNLVP1		246				IEEE	344							

REPORT NO. HSSQT1

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVU - VENTILATION - CONTAINMENT STRUCTURE

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR															
	VEND MODEL	SPEC														
	MANUFACTURER	MANUFAC MODEL														

SNEC EQUIPMENT

CTV - VALVE, CONTAINMENT, TRIP

3HVU*CTV32A	CTHT PURGE INL & OUT HENRY PRATT NR1A BETTIS	D-0054-3 339	AB	00070	DM	Y	N	3G	S	NA	NA	33+	A
3HVU*CTV32B	SLC INLET HENRY PRATT NR1A BETTIS	D-0054-3 339	AB	00070	DM	Y	N	3G	S	NA	NA	33+	A
3HVU*CTV33A	CTHT PURGE INL & OUT HENRY PRATT NR1A BETTIS	D-0054-3 339	CS	00070	DM	Y	N	3G	S	NA	NA	33+	A
3HVU*CTV33B	CTHT PURGE INL & OUT HENRY PRATT NR1A BETTIS	D-0054-3 339	CS	00070	DM	Y	N	3G	S	NA	NA	33+	A

SOV - VALVE, SOLENOID

3HVU*SOV32A	CTHT PURGE INL & OUT AQR-67638 339	AB	EH	Y	N	3G	N	SF	SD	*	35+	A
			NA									
			IEEE-323,344,382									

REPORT NO. MSSQT1

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UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVU - VENTILATION - CONTAINMENT STRUCTURE

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC			RRS	REF	DYN.	INPUT		FREQ	DIR					
	VEND MODEL	MANUFACTURER			CODES			(ZPA)								

3HVU*SOV32B	SLC INLET	AQR-67638 339	AB	EM	Y	N	3G	N	SF	SD	*	35+				A
				NA												
																IEEE-323,344,382
3HVU*SOV33A	SLC INLET CTMT PURGE	INL&OUT AQR-67638 339	CS	EM	Y	N	3G	N	SF	SD	*	35+				A
				NA												
																IEEE-323,344,382
3HVU*SOV33B	SLC INLET CTMT PURGE	INL&OUT AQR-67638 339	CS	EM	Y	N	3G	N	SF	SD	*	35+				A
				NA												
																IEEE-323,344,382

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HWV - VENTILATION - MAIN STM VALVE BLDG

[illegible]

SNEC EQUIPMENT

FN - FAN

3HVV*FNIC	MSVB EXHAUST FANS BUFFALO FORGE 25A9 WESTINGHOUSE	02325005-45 140 5 H.P.	MSV 00086 RM Y N .50.16 S NA NA 33+ 33+ 33+ A Y
			NS(B)-070-REV.0B ANCA STD/IEEE 323,344/NUREG-0558

3HVV*FN1D	MSVB EXHAUST FANS	MSV 00086 RM Y N .50.16 S NA NA 33+ 33+ 33+ A Y
	BUFFALO FORGE	82325005-45 NS(B)-070-REV.0B
	25A9	140 AMCA STD/IEEE 323,344/NUREG-0550
	WESTINGHOUSE	5 H.P.

ADD - DAMPER, AIR OPERATED

3HVV#AOD50A	MAIN STEAM VLV BLDG INLET	MSV 00092 CW Y N .48.16 N SF SD 35+ 29 29 A
	AMERICAN WARMING 80271-301	NS(B)-070 REV 0B
	AWV-7402 594	IEEE-323,344,382
	NANCO LIMIT SWITCH EA740	

3HVV*ADD50B	MAIN STEAM VLV BLDG INLET	MSV	CN	Y	N	.48.16	N	SF	SD	35+	29	29	A
	AMERICAN WARMING	80271-301	NS(B)-070 REV 0B										
	AWV-7402	594	IEEE-323,344,382										
	NANCO LIMIT SWITCH	EA740											

MOD - DAMPER, MOTOR OPERATED

[illegible]

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

DOCKET NO. 50-423

SYSTEM HVV - VENTILATION - MAIN STM VALVE BLDG

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3HVV*NOD50D	MSV BLDG OUTLET AMERICAN WARMING NPK8320A182E NAMCO LIMIT SWITCH	80271-301 594 EA740	MSV 00086 CM	Y N .48.16 N	SF SD	35+ 29 29	D
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3HVV*NOD51A	MSV BLDG INLET AMERICAN WARMING NPK8320A182E NAMCO LIMIT SWITCH	594 EA740	MSV CM	Y N .25.13			D
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3HVV*NOD51B	MSV BLDG INLET AMERICAN WARMING NPK8320A182E NAMCO LIMIT SWITCH	594 EA740	MSV CM	Y N .25.13			D
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3HVV*NOD51C	MSV BLDG INLET AMERICAN WARMING NPK8320A182E NAMCO LIMIT SWITCH	594 EA740	MSV 0002' CM	Y N .18.12			D
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3HVV*NOD51D	MSV BLDG INLET AMERICAN WARMING NPK8320A182E NAMCO LIMIT SWITCH	594 EA740	MSV 00024 CM	Y N .18.12			D
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SOV - VALVE, SOLENOID

3HVV*SOV50A	MAIN STEAM VLV BLDG INLET AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK8320E	MSV DM	Y N .48.16 N	SF SD *	35+	A
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3HVV*SOV50B	MAIN STEAM VLV BLDG INLET AMERICAN WARMING NPK8320A182E ASCO SOLENOID	AQR-67638 594 NPK 8320E	MSV DM	Y N .48.16 N	SF SD *	35+	A
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REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVV - VENTILATION - MAIN STM VALVE BLDG

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR															
	VEND MODEL	SPEC														
	MANUFACTURER	MANUFAC MODEL														

TS - SWITCH, TEMPERATURE

3HVV*TS53A	MSV BLDG INLET	MSV	CH	Y	N	.48.16	N	SF	SD	35+	35+	35+	A	Y	
	ASCO	AQR-020184 R.O	NS(B)-070 REV 08												
	SB11AKR/QF10A4R	626	IEEE 323-1974&IEEE 344-1975												
	TEMP SWITCH	SB11AKR/QF10A4R													
3HVV*TS53B	MSV BLDG INLET	MSV	CH	Y	N	.48.16	N	SF	SD	35+	35+	35+	A	Y	
	ASCO	AQR-020184 R.O	NS(B)-070 REV 08												
	SB11AKR/QF10A4R	626	IEEE 323-1974&IEEE 344-1975												
	TEMP SWITCH	SB11AKR/QF10A4R													

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVY - VENTILATION - YARD STRUCTURES

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQS	STATUS
	VENDOR	QUAL REPORT	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
	VEND MODEL	SPEC	RRS REF	DYN. INPUT	FREQ DIR		
	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)			

SHEC EQUIPMENT

FN - FAN

3HVV*FN2A	C.S.W.P.EXHAUST FAN BUFFALO FORGE 33B7 WESTINGHOUSE	82325005-45 140 15 H.P.	CSP 00032 CH Y N .49.16 S NA NA 33+ 33+ 33+ A Y
			NS(B)-044-REV.2B AMCA STD/IEEE 323,344/NUREG-0558
3HVV*FN2B	C.S.W.P.EXHAUST FAN BUFFALO FORGE 33B7 WESTINGHOUSE	82325005-45 140 15 H.P.	CSP 00032 CH Y N .49.16 S NA NA 33+ 33+ 33+ A Y
			NS(B)-044-REV.2B AMCA STD/IEEE 323,344/NUREG-0558

SIL - SILENCER (INLET OR EXHAUST)

3HVV*SIL4A	SOUND ATTENUATOR IAC 3S-36X48	A-392-81 142	CSP 00039 F Y .49.16 SD NA NA 31.8 18.9 30.9 D Y
			NS(B)-044-REV 2B TECH.REQUIREMENTS-EXHIBIT II,DTD 10/15/75
3HVV*SIL4B	SOUND ATTENUATOR IAC 3S-36X48	142	CSP 00039 Y .49.16 D Y
			NS(B)-044-REV 2B TECH.REQUIREMENTS-EXHIBIT II,DTD 10/15/75
3HVV*SIL5A	SOUND ATTENUATOR IAC 5L-48X48	142	CSP 00039 Y .49.16 D Y
			NS(B)-044-REV 2B TECH.REQUIREMENTS-EXHIBIT II,DTD 10/15/75

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PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVY - VENTILATION - YARD STRUCTURES

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3HVV*SI-5B	SOUND ATTENUATOR IAC SL-48X48	142	CSP 00039	Y .49.16 NS(B)-044-REV 2B TECH.REQUIREMENTS-EXHIBIT II, DTD 10/15/75			D Y
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DMP - DAMPER

3HVV*DMPB1A	BACKDRAFT DAMPER 2230	90267-1 583	CSP	HM Y N .49.16 S NS(B)-044 AMCA-500-75	NA NA	33+ NA NA	A Y
3HVV*DMPB1B	BACKDRAFT DAMPER 2230	90267-1 583	CSP	HM Y N .49.16 S NS(B)-044 AMCA-500-75	NA NA	33+ NA NA	A Y

AOD - DAMPER, AIR OPERATED

3HVV*AOD23A	SERVICE MTR PHPHOUSE AMERICAN WARNING AHV-7402 NANCO LIMIT SWITCH	INL DMPR 80271-301 594 EA740	CSP 00028	CK Y N .48.16 N NS(B)-044 REV 2B IEEE-323,344,382	SF SD	35+ 29 29	A
3HVV*AOD23B	SERVICE MTR PHPHOUSE AMERICAN WARNING AHV-7402 NANCO LIMIT SWITCH	INL DMPR 80271-301 594 EA740	CSP 00028	CH Y N .49.16 N NS(B)-044 REV 2B IEEE-323,344,382	SF SD	35+ 29 29	A

SOV - VALVE, SOLENOID

3HVV*SOV23A	SERVICE MTR PHPHOUSE AMERICAN WARNING NPK8320A102E ASCO SOLENOID	INL DMPR AQR-67638 594 NPK8320	CSP 00028	DM Y N .49.16 N NS(B)-044 REV 2B IEEE-323,344,382,627	SF SD	* 35+	A
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DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVZ - HTG, VENTILATING, AIR COND CONDENSING WATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	TEST	TEST	F/S	S/S	VERT	SQ	INS	STATUS
	VENDOR	QUAL REPORT	BLDG ELEV	MTG SEIS	OTHER REQ'D	ANLYS	FREQ	DIR					
	VEND MODEL	SPEC		RRS REF	DYN. INPUT								
	MANUFACTURER	MANUFAC MODEL		CODES	(ZPA)								

SHEC EQUIPMENT

DMPF - DAMPER, FIRE

3HVZ*DMPF1	FIRE DAMPER	44453-1/0801	DM	Y	N	.23.13	N	MF	MD	NA	NA	NA	A Y
			12179-NS(T)-077										
			IEEE-344										
3HVZ*DMPF2	FIRE DAMPER	44453-1/0801	DM	Y	N	.30.13	N	MF	MD	NA	NA	NA	A Y
			12179-NS(T)-077										
			IEEE-344										
3HVZ*DMPF3	FIRE DAMPER	44453-1/0801	DM	Y	N	.23.13	N	MF	MD	NA	NA	NA	A Y
			12179-NS(T)-077										
			IEEE-344										

MOD - DAMPER, MOTOR OPERATED

3HVZ*MOD20A	H2 RBNR AIR INTAKE	HRB	CW	Y	N	.30.13							D
	AMERICAN WARNING	AQR-67638 35+	NS(T)-077 REV 08										
	AHV-7402	594	IEEE-323,344,382										
	NAMCO LIMIT SWITCH	EA740											
3HVZ*MOD20B	H2 RBNR AIR INTAKE	HRB	CW	Y	N	.30.13							D
	AMERICAN WARNING		NS(T)-077 REV 08										
	AHV-7402	594	IEEE-323,344,382										
	NAMCO LIMIT SWITCH	EA740											

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HVZ - HTG, VENTILATING, AIR COND CONDENSING WATER - SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQS	STATUS
	VENDOR	QUAL REPORT	BLOG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
	VEND MODEL	SPEC	RRS REF	DYN. INPUT	FREQ DIR		
	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)			

3HVZ*MOD21A	H2 RBNR VENT AMERICAN WARNING AWV-7402 NAMCO LIMIT SWITCH	594 EA740	HRB	CW Y N .30.13 NS(T)-077 REV 0B IEEE-323,344,382			D
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3HVZ*MOD21B	H2 RBNR VENT AMERICAN WARNING AWV-7402 NAMCO LIMIT SWITCH	594 EA740	HRB	CW Y N .30.13 NS(T)-077 REV 0B IEEE-323,344,382			D
-------------	--------------------------------------------------------------------	--------------	-----	-------------------------------------------------------	--	--	---

RE - RADIOACTIVITY ELEMENT, PRIMARY

3HVZ*RE09A	RECOMBINER CUB A EXHAUST KAHAN SCIENCES 451003-003 KAHAN	K-84-50/K-64-1 624 KDB	HRB 00037	CW Y N .23.13 S NS(T)-077 REV 0B IEEE 323, IEEE 344	NA NA	33+ 33+ 33+	A Y
------------	-------------------------------------------------------------------	------------------------------	-----------	-----------------------------------------------------------	-------	-------------	-----

3HVZ*RE09B	RECOMBINER CUB A EXHAUST KAHAN SCIENCES 451003-003 KAHAN	K-84-50/K-64-1 624 KDB	HRB 00037	CW Y N .23.13 S NS(T)-077 REV 0B IEEE 323, IEEE 344	NA NA	33+ 33+ 33+	A Y
------------	-------------------------------------------------------------------	------------------------------	-----------	-----------------------------------------------------------	-------	-------------	-----

RIY - RADIATION INDICATING RELAY

3HVZ*RIY09A	REMOTE MICROPROCESSOR KAHAN SCIENCES KEM-S(45095-008) KAHAN	K-84-50/16683-8 624	HRB 00024	CW Y N .23.13 N NS(T)-077 REV 0B IEEE 323, IEEE 344	MF MD	24.0 24.0 28.0	D Y
-------------	----------------------------------------------------------------------	------------------------	-----------	-----------------------------------------------------------	-------	----------------	-----

3HVZ*RIY09B	REMOTE MICROPROCESSOR KAHAN SCIENCES KEM-S(45095-008) KAHAN	K-84-50/16683-8 624	HRB 00024	CW Y N .23.13 N NS(T)-077 REV 0B IEEE 323, IEEE 344	MF MD	24.0 24.0 28.0	D Y
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REPORT NO. MSS0T1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM IAS - INSTRUMENT AIR SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

[illegible]

SHEC EQUIPMENT

PV - VALVE, PRESSURE

3IAS*PV15	CNTHNT INSTR AIR SPLY	AB 00004 DM Y M 3G S NA NA 33+ A Y
	FISHER FQP-22-2	NA
	667NS-ES 185	ASME III,CL2
	NAHCO LIMIT SWITCH EA 180	

SOV - VALVE, SOLENOID

SIASW05V15	CNTHNT INSTR AIR SPLY	AB 00005 EM Y N 3G N SF SD 35+ A Y
	FISHER AQR-67368	NA
	185	IEEE,323,344,382
	ASCO SOLENOID NPK 8320	

MOV - VALVE, MOTOR OPERATED

[illegible]

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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM LAD - LIGHTING, AC-DIESEL GENERATOR ROOM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	MTG	SEIS	OTHER REQ'D	DYN.	INPUT	FREQ DIR
VENDOR	QUAL REPORT			RRS REF				
VEND MODEL	SPEC			CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL							

SNEC EQUIPMENT

XL - TRANSFORMER LIGHTING

3LAD*EXL1O	LIGHTING TRANSFORMER PWR CONVRSN PROD INC WYLE 45999-1 608 PWR CONVRSN PROD INC 5 KVA	EGE 00051 CF Y N .55.15 N MF MD 18 22 18 A Y
		NS(B)-069,REV0B IEEE 344
3LAD*EXL2P	DG LIGHTING TRANSFORMER PWR CONVRSN PROD INC WYLE 45999-1 608 PWR CONVRSN PROD INC 5KVA	EGE 00051 CF Y N .55.15 N MF MD 18 22 18 A Y
		NS(B)-069,REV0B IEEE 344

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM LAK - LIGHTING, AC-MISC BLDGS

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F.B	S/S	VERT	SQ	INS	STATUS
	VENDOR				RRS	REF	DYN.	INPUT		FREQ	DIR					
	VEND MODEL	SPEC			CODES			(ZPA)								
	MANUFACTURER	MANUFAC MODEL														

SNEC EQUIPMENT

XL - TRANSFORMER LIGHTING

3LAK*EXL10	LIGHTING TRANSFORMER	ESB 00004 CF Y N .20.12 N MF MD 18 22 18 A Y
	PHR CONVRN PROD INC WYLE 45999-1	NS(B)-010,REV0B
	308	IEEE 344
	PHR CONVRN PROD INC 5KVA	
3LAK*EXL2P	ESF BLDG LIGHTING XFMR	MRC -0034 CF Y N .20.12 N MF MD 18 22 18 A Y
	PHR CONVRN PROD INC WYLE 45999-1	NS(B)-010,REV0B
	608	IEEE 344
	PHR CONVRN PROD INC 5KVA	

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

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SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSS SUPPLIER: WESTINGHOUSE

SYSTEM LAP - LIGHTING, AC-PRIMARY AUXILIARY BLOC

[illegible]

SNEC EQUIPMENT

X - TRANSFORMER

3LAP*EXL10 LIGHTING TRANSFORMER AB 00024 CH Y N .27.16 N HF MD 18 22 18 A Y
PWR CONVRSN PROD INC WYLE 45999-1 NS(B)-007,REV0B
608 IEEE 344
PWR CONVRSN PROD INC 10 KVA

XL - TRANSFORMER LIGHTING

3LAP*EXL2P	LIGHTING TRANSFORMER	MRC 00024 CH Y N .27.16 N MF MD 18 22 18 A Y
	POWER CONV PROD INC WYLE 45999-1	NS(B)-007,REV0B
	608	IEEE 344
	POWER CON PROD INC 10 KVA	

[illegible]

XL - TRANSFORMER LIGHTING

[illegible]

3VBA*XRC-2	+UAC3 REG XFMR PNL-VB2	CB 00004 CW Y N .25.15 S NA NA 40+ 40+ 40+ A Y
	ELGAR CORP 80255	NS(B)-017,REV1B
	PLC-253-1-1 622	IEEE-323,344
	ELGAR PLC-253-1-1	

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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM LAP - LIGHTING, AC-PRIMARY AUXILIARY BLDG

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN. INPUT (ZPA)	NAT FREQS	F/B	S/S	VERT	SQ INS
3VBA*XRC-3	+UAC2 REG XFMR PNL-VB3 ELGAR CORP PLC-253-1-1 ELGAR	80255 622 PLC 253-1-1	CB 00004 CH Y N .25.15 S NA NA 40+ 40+ 40+	NS(B)-017,REV1B IEEE-323,344	A Y					
3VBA*XRC-4	+UAC4 REG XFMR PNL-VB4 ELGAR CORP PLC-253-1-1 ELGAR	80255 622 PLC 253-1-1	CB 00004 CH Y N .25.15 S NA NA 40+ 40+ 40+	NS(B)-017,REV1B IEEE-323,344	A Y					

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PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM LAR - LIGHTING, AC-REACTOR BLDG

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANIFAC MODEL					

SNEC EQUIPMENT

X - TRANSFORMER

3LAR#EXL10	LIGHTING TRANSFORMER	AB 00024 CH Y N .27.16 N MF MD 18 22 18 A Y
	POWER CONV PROD INC WYLE 45999-1	NS(B)-007,REV0B
	608	IEEE 344
	POWER CON PROD INC 10KVA	

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM LAT - LIGHTING, AC-TURBINE AREA

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV MTG	SEIS OTHER REQ'D	LOADS	ANLYS TEST TEST	QUAL METH --	NAT FREQS	STATUS
	VENDOR		RRS REF	DYN. INPUT		FREQ DIR		F/B S/S VERT SQ INS	
	VEND MODEL	SPEC	CODES	(ZPA)					
	MANUFACTURER	MANUFAC MODEL							

SHEC EQUIPMENT

X - TRANSFORMER

3LAT*EXL10	LIGHTING TRANSFORMER	CB 00004 CF Y N	.25.15 N	HF MD	18	22	18	A Y
	POWER CONV PROD INC	WYLE 45999-1	NS(B)-017,REV1B					
		600	IEEE 344					
	POWER CON PROD INC	10KVA						

XL - TRANSFORMER LIGHTING

3LAT*EXL2P	LIGHTING TRANSFORMER	CB 00004 CF Y N	.25.15 N	HF MD	18	22	18	A Y
	POWER CONV PROD INC	WYLE 45999-1	NS(B)-017,REV1B					
		600	IEEE 344					
	POWER CON PROD INC	10KVA						

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM LAW - LIGHTING, AC-SCREENWELL AND PUMPHOUSE

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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SNEC EQUIPMENT

XL - TRANSFORMER LIGHTING

[illegible]

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIV 3
UTILITY MUSCO

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM LMS - LEAKAGE MONITORING SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERY	SQ	INS
	VENDOR	QUAL REPORT	RRS REF	DYN.	INPUT										
	VEND MODEL	SPEC	CODES		(ZPA)										
	MANUFACTURER	MANUFAC MODEL													

SWEC EQUIPMENT

TI - INDICATOR, TEMPERATURE

3LMS*TI21A	CNTMNT TEMP	CB	CM	Y	N	.40.15	N	HF	MD	NA	NA	NA	C	
	INT'L INST 1151VB	SQP-99X2087-A 245	NS(B)-017 REV 1B IEEE 344 & NUREG 0800											
3LMS*TI21B	CNTMNT TEMP	CB	CM	Y	N	.40.15	N	HF	MD	NA	NA	NA	C	
	INT'L INST 1151VB	SQP-99X2087-A 245	NS(B)-017 REV 1B IEEE 344 & NUREG 0800											

TR - RECORDER, TEMPERATURE

3LMS*TR21	CNTMNT TEMP	CB	RM	Y	N								A	
	FOXBORO	QQAAB23	NS(B)-017 REV 1B											
	N-2265-16	392	IEEE 344,323											
	ELECTRONIC RECORDERS	N-2265-16												

TY - RELAY, COMPUTING, SELECTING OR BOOSTER, TEMPERATURE

3LMS*TY21	CNTMNT TEMP	CB	RM	Y	N		N	HF	MD	NA	NA	NA	D	
	FOXBORO	QQAAB18	NS(B)-017 REV 1B											
	N-2AX+DIO	392	IEEE-344,322											
	DISTRIBUTION MODULE	N-2AX+DIO												
3LMS*TY21A	CNTMNT TEMP	CB	RM	Y	N								A	
	FOXBORO	QQAAB29	NS(B)-017 REV 1B											
	N-2AI-P2V	392	IEEE 344,323											
	R/E CONVERTER	N-2AI-P2V												

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM LMS - LEAKAGE MONITORING SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	DYN. INPUT	FREQ DIR	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRG REF	DYN. INPUT	(ZPA)				
VEND MODEL	SPEC	CODES						
MANUFACTURER	MANUFAC MODEL							

2. 此次调查所获数据, 除用于本论文外, 还将用于其他相关研究, 如: 中国农村劳动力转移、中国农村人口流动、中国农村人口迁移、中国农村人口流动与迁移、中国农村人口流动与迁移的成因、中国农村人口流动与迁移的影响、中国农村人口流动与迁移的政策、中国农村人口流动与迁移的对策等。

3LMS*TY21B	CNTHTNT TEMP	CB	RM Y N	A
	FOXBORO	QOAB29	NS(B)-017 REV 1B	
	N-2AI-P2V	392	IEEE-344	
	R/E CONVERTER	N-2AI-P2V		

MOV - VALVE, MOTOR OPERATED

[illegible][illegible][illegible][illegible]

PT - TRANSMITTER,PRESSURE

3LNS*PT24A CNTMNT PRESS AB 00024 RM Y N .18.12 N HF ND 50 47 50 A Y
ROSEMOUNT 108025 NS(B)-007 REV 1B
1153AB 662 IEEE-323,344
ABSLTE PPSR TRANSHTR 1153AB7PC

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PROJECT EQUIPMENT SYSTEM
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PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM LMS - LEAKAGE MONITORING SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	NAT FREQS VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR	
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

1. 在下列各题中，选择正确的答案，并将答案填入括号内。

3LMS#PT24B	CNTMNT PRESS		AB 00004 RM Y N .16.12 N HF MD 50 47 50 A Y
	ROSEMOUNT	108025	NS(B)-007 REV 1B
	1153AB	662	IEEE-323,344
	ADSLTE PRSR TRANSMTR	1153AB7PC	

3LMS#PT934 CNTHNT PRESS AB 00004 R4 Y N .18.12 N HF MD 50 47 50 A Y
ROSEMOUNT 108025 NS(B)-007 REV 1B
1153AB 662 IEEE-323,344
ABSLTE PRSR TRANSMTR 1153AB6PC

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3LMS*PT935      CNTMNT PRESS      AB 00004 RM   Y   N   .18.12 N   MF MD   50   47   50   A Y
                  ROSEMOUNT        108025      NS(B)-007 REV 1B
                  1153AB           662          IEEE-323,344
                  ABSLTE PRSR TRANSMTR 1153AB6PC

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3LMS*PT936 CNTINT PRESS AB 00004 RM Y N .18.12 N MF MD 50 47 50 A Y
ROSEMOUNT 108025 NS(P,-007 Rev B
1153AB 662 IEEE-323,344
ABSLTE PRSR TRANSMTR 1153AB6PC

[illegible]

TE - TEMPERATURE ELEMENT, PRIMARY

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JLMS*TE21A      CNTMNT TEMP      CS 00150  DM  Y    N    .80.30  N    HF  MD      33+      A  Y
WEED INSTRUMENT CO 3035-00125-14  NS(B)-025,REV 1B
0313-00125-006    683             IEEE 323,344
WEED RTD          611

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3LMS*TE21B	CNTHT TEMP	CS 00140	DM Y	N	.80.30	N	HF	MD	33+	A Y
	NEED INSTRUMENT CO	3035-00125-14	NS(B)-025,REV 1B							
	0313-00125-006	683	IEEE 323,344							
	NEED RTD	611								

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM LWC - LIQUID WASTE - CONDENSATE DEMIN. SYSTEM

[illegible]

姓名：_____

SNEC EQUIPMENT

FQI - INDICATOR, QUANTITY, FLOW

[illegible]

REPORT NO. H55QT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN.	INPUT	FREQ DIR
VENDOR	QUAL REPORT	RPS REF	DYN.	INPUT	FREQ DIR	
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SWEC EQUIPMENT

MOV - VALVE, MOTOR OPERATED

3MSS*MOV17A	GLOBE STOP CHECK VALVE WALWORTH 231 REV 1 N5320 PSB 161 LIMITORQUE OPERATOR SMB-00-	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A	Y
3MSS*MOV17B	GLOBE STOP CHECK VALVE WALWORTH 231 REV 1 N5320 PSB 161 LIMITORQUE OPERATOR SMB-00-	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A	Y
3MSS*MOV17D	GLOBE STOP CHECK VALVE WALWORTH 231 REV 1 N5320 PSB 161 LIMITORQUE OPERATOR	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A	Y
3MSS*MOV18A	GATE VALVE WALWORTH 230 REV 1 N5247 PS 161 LIMITORQUE OPERATOR SMB-0	MSV 00071	DM	Y	N	3G	S	NA	NA	33+	A	Y
3MSS*MOV18B	GATE VALVE WALWORTH 230 REV 1 N5247 PS 161 LIMITORQUE OPERATOR SMB-01	MSV 00071	DM	Y	N	3G	S	NA	NA	33+	A	Y
3MSS*MOV18C	GLOBE STOP CHECK VALVE WALWORTH 230 REV 1 N5247 PS 161 LIMITORQUE OPERATOR SMB-0	MSV 00071	DM	Y	N	3G	S	NA	NA	33+	A	Y

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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/64

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM MSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

[illegible]

1. 本行在 2019 年 12 月 31 日及 2018 年 12 月 31 日，均无因向客户提供担保而形成的或有负债。

3MSS*HOV18D	GATE VALVE		MSV 00069 DM	Y	N	3G	S	NA	NA	33+	A Y
	WALNORTH	230 REV 1	NA								
	N5247 PS	161	ASME III,CL2								
	LIMITORQUE OPERATOR	SHB-									

CTV - VALVE, CONTAINMENT, TRIP

3MS5*CTV27A	MN STM ISOL TRIP VLV	MSV 00066 DM	Y	N	3G	S	NA	NA	33+	A
	0382-146t.B110	NA								
	DAS 630B	177	ASME III,CL2							

3MSS*CTV27B	MN STM ISOL TRIP VLV	MSV 00066 DH	Y	N	3G	S	NA	NA	33+	A
	0382-146&.B110	NA								
DAS 630B	177	ASHE III,CL2								

3HSS*CTV27C	MM STM ISOL TRIP VLV	MSW 00066 DH	Y	N	3G	S	NA	NA	33+	A
	0382-1462.B110	NA								
DAS 630B	177	ASME III,CL2								

3MSS*CTV27D	MIN STM ISOL TRIP VLV	MSV 00066	DM	Y	N	3G	S	NA	NA	13+	A
	0382-146&.B110		NA								
	DAS 630B	177	ASHE III,CL2								

SV - VALVE; SOLENOID, (WESTINGHOUSE)

3MSS#SV27A1A	MN STM ISOL TRIP VLV	MSV 00066 EM Y N 3G D SF SD 33+ A
	0382-146,REF.5	NA
MGV	177	ASHE III,CL2

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM MSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

[illegible]

JHSS*SV27A1B	MN STM ISOL TRIP VLV	MSV 00066 EM Y N 3G D SF SD 33+ A
	0382-146,REF.5	NA
HGV	177	ASME III,CL2

3HSS*SV27A2A	HN STH ISOL TRIP VLV	MSV 00066	EH	Y	N	3G	D	SF	SD	33+	A
		0382-176,REF.5	NA								
	HGV	177	ASME III,CL2								

3HSS*SV27A2B	MIN STM ISOL TRIP VLV	MSV 00066	EM	Y	N	3G	D	SF	SD	33+	A
		0382-146,REF.5	NA								
HGV		177	ASME III,CL2								

3HSS*SV27A3A	MN ST!! ISOL TRIP VLV	MSV 00066 EH	Y	N	3G	D	SF	SD	33+	A
	0382-146,REF.5	NA								
MGV	177	ASHE III,CL2								

3HSS*SV27A3B	MN STH ISOL TRIP VLV	MSV 00066 EM	Y	N	3	D	SF	SD	33+	A
	0382-146, REF.5	NA								
NGV	17'	ASME III, CL2								

3HSS*SV27A9A	MN STM ISOL TRIP VLV	MSV 00066	EH	Y	N	3G	D	SF	SD	33+	A
		0382-176,REF.5	NA								
	MGV	177	ASME III,CL2								

3HGS*SV27A4B	NN STM ISOL TRIP VLV	MSV 00066	EM	Y	N	3G	D	SF	SD	33+	A
		0382-146,REF.5	NA								
	HGV	177	ASME III,CL2								

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UTILITY NUSCO

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM MSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT ----- QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV HTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	LOADS -----	ANLYS TEST TEST FREQ DIR	NAT FREQS ----- F/B S/S VERT	SQ INS	STATUS
3HSS*SV27B1A	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EM NA ASME III,CL2	Y N 3G	D SF SD	33+	A		
3HSS*SV27B1B	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EM NA ASME III,CL2	Y N 3G	D SF SD	33+	A		
3HSS*SV27B2A	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EM NA ASME III,CL2	Y N 3G	D SF SD	33+	A		
3HSS*SV27B2B	MN STM ISOL TRIP VLV MGV	MSV 00066 0392-146,REF.5 177	EM NA ASME III,CL2	Y N 3G	D SF SD	33+	A		
3HSS*SV27B3A	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EM NA ASME III,CL2	Y N 3G	D SF SD	33+	A		
3HSS*SV27B3B	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EM NA ASME III,CL2	Y N 3G	D SF SD	33+	A		
3HSS*SV27B4A	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EM NA ASME III,CL2	Y N 3G	D SF SD	33+	A		

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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	LOADS	ANLYS TEST TEST FREQ DIR	NAT FREQS	F/B S/S VERT	SQ INS

3MSS*SV27B4D	MN STM ISOL TRIP VLV MGV	0382-146,REF 5 177	MSV 00066	EM Y N 3G NA ASME III,CL2	D SF SD				A
3MSS*SV27C1A	MN STM ISOL TRIP VLV MGV	0382-146,REF.5 177	MSV 00066	EM Y N 3G NA ASME III,CL2	D SF SD		33+		A
3MSS*SV27C1B	MN STM ISOL TRIP VLV MGV	0382--146,REF5 177	MSV 00066	EM Y N 3G NA ASME III,CL2	D SF SD				D
3MSS*SV27C2A	MN STM ISOL TRIP VLV MGV	0382-146,REF.5 177	MSV 00066	EM Y N 3G NA ASME III,CL2	D SF SD		33+		A
3MSS*SV27C2B	MN STM ISOL TRIP VLV MGV	0382-146,REF.5 177	MSV 00066	EM Y N 3G NA ASME III,CL2	D SF SD		33+		A
3MSS*SV27C3A	MN STM ISOL TRIP VLV MGV	0382-146,REF.5 177	MSV 00066	EM Y N 3G NA ASME III,CL2	D SF SD		33+		A
3MSS*SV27C3B	MN STM ISOL TRIP VLV MGV	0382-146,REF.5 177	MSV 00066	EM Y N 3G NA ASME III,CL2	D SF SD		33+		A

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BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM NSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG RRS REF CODES	SEIS DYN.	OTHER INPUT (ZPA)	REQ'D	ANLYS	TEST TEST FREQ DIR	F/B	S/S	VERT	SQ INS

3HSS*SV27C4A	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EH NA ASME III,CL2	Y	N	3G	D	SF	SD		33+		A
3HSS*SV27C4B	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EH NA ASME III,CL2	Y	N	3G	D	SF	SD		33+		A
3HSS*SV27D1A	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EH NA ASME III,CL2	Y	N	3G	D	SF	SD		33+		A
3HSS*SV27D1B	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EH NA ASME III,CL2	Y	N	3G	D	SF	SD		33+		A
3HSS*SV27D2A	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EH NA ASME III,CL2	Y	N	3G	D	SF	SD		33+		A
3HSS*SV27D2B	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EH NA ASME III,CL2	Y	N	3G	D	SF	SD		33+		A
3HSS*SV27D3A	MN STM ISOL TRIP VLV MGV	MSV 00066 0382-146,REF.5 177	EH NA ASME III,CL2	Y	N	3G	D	SF	SD		33+		A

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REPORT DATE 10/11/84

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NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

3HSS*SV2703B	HN STM ISCL TRIP VLV	MSV 00066	EM	Y	N	3G	D	SF	SD	33+	A
		0382-146,REF.5	NA								
	HGV	177	ASME III,CL2								

3HSS*SV2704A	MIN STM ISOL TRIP VLV	MSV 00066	EM	Y	N	3G	D	SF	SD	33+	A
		0382-146,REF.5	NA								
	MGV	177	ASME III,CL2								

3HSS*SV27D4B	MN STM ISOL TRIP VLV	MSV 00066	EH	Y	N	3G	D	SF	SJ	33+	A
		0382-146,REF.5	NA								
	MGV	177	ASME III,CL2								

RV - VALVE,RELIEF

3HSS*RV22A	MN STM SAFETY VLV RLF	MSGV 00068 DM	Y	N	3G	S	NA	NA	33+	A Y
	SQ-37-9&74-370-4	NA								
3700	180	ASME III,CL2								

3HSS=R /22B	NN STM SAFETY VLV RLF	MSV 00068 DM	Y	N	3G	S	NA	NA	33+	A Y
	SQ-37-9&74-370-4	NA								
3700	180	ASME III,CL2								

3MSS*RV22C	MM STH SAFETY VLV RLF	MSV 00068 DH	Y	N	3G	S	NA	NA	33+	A Y
	SQ-37-9&74-370-4	NA								
3700	180	ASHE III,C1.2								

3HSS#RV22D HN STH SAFETY VLV RLF MSV 00068 DM Y N 3G S NA NA 33+ A Y
SQ-37-9&74-370-4 NA
180 ASHE III,CL2

3HSSW2V24C	MN STM SAFETY VLV RLF	MSG 00068 JM	Y	N	3G	S	NA	NA	33+	A Y
	SQ-37-9&74-370-4	NA								
370C	180	ASME III,CL2								

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER REQ'D	ANLYS TEST	TEST	QUAL METH	NAT FREQS	STATUS
	VENDOR	SPEC				DYN. INPUT	FREQ DIR				
	VEND MODEL	MANUFAC MODEL									
	MANUFACTURER										
3HSS*RV24D	MN STM SAFETY VLV RLF	SQ-37-9&74-370-4	MSV 00068	DM	Y	N	3G	S	NA	NA	33+ A Y
	3700	180		NA							
				ASME III,CL2							
3HSS*RV25A	MN STM SAFETY VLV RLF	SQ-37-9&74-370-4	MSV 00068	DM	Y	N	3G	S	NA	NA	33+ A Y
	3700	180		NA							
				ASME III,CL2							
3HSS*RV25B	MN STM SAFETY VLV RLF	SQ-37-9&74-370-4	MSV 00068	DM	Y	N	3G	S	NA	NA	33+ A Y
	3700	180		NA							
				ASME III,CL2							
3HSS*RV25C	MN STM SAFETY VLV RLF	SQ-37-9&74-370-4	MSV 00068	DM	Y	N	3G	S	NA	NA	33+ A Y
	3700	180		NA							
				ASME III,CL2							
3HSS*RV25D	MN STM SAFETY VLV RLF	SQ-37-9&74-370-4	MSV 00068	DM	Y	N	3G	S	NA	NA	33+ A Y
	3700	180		NA							
				ASME III,CL2							
3HSS*RV26A	MN STM SAFETY VLV PLF	SQ-37-9&74-370-4	MSV 00068	DM	Y	N	3G	S	NA	NA	33+ A Y
	3700	180		NA							
				ASME III,CL2							
3HSS*RV26B	MN STM SAFETY VLV RLF	SQ-37-9&74-370-4	MSV 00068	DM	Y	N	3G	S	NA	NA	33+ A Y
	3700	180		NA							
				ASME III,CL2							

REPORT NO. MSSQT1

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SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN.	INPUT	FREQ DIR
VENDOR	QUAL REPORT	RRS REF	DYN.	INPUT	FREQ DIR	
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

3HSSRV26C	MN STM SAFETY VLV RLF	MSV 00068	Y	N	3G	S	NA	NA	33+	A Y
	SQ-37-9&74-370-4	NA								
3700	180	ASME III,CL2								

3HSS*RV26D	MN STM SAFETY VLV RLF	MSV 0006B	Y	N	3G	S	NA	NA	33+	A	Y
		SQ-37-9&74-370-4	NA								
	3700	180	ASME III,CL2								

AOV - VALVE, AIR OPERATED

3HSS*ACV31A	SGAPP TURB STH SPly	ESB 00026 DH Y N 3G S NA NA	73+	A Y
	FISHER	FQP-22-9/10A NA		
	65/NS-ES	185 ASME III,CL2		
	NANCO LIMIT SWITCH	EA 170		

JHSS#AOV31B	SQAFF TURB STM SPLY		ESB 00026 DM	Y	N	3G	S	NA	NA	33+	A Y
FISHER		FQP-22-9/10A	NA								
657NS-ES		185	ASME III,CL2								
NAMCO LIMIT SWITCH		EA 170									

3HSS#A0V31D	SGAFF TURB STM SPLY	ESB 00026 DM	Y	N	3G	S	NA	NA	33+	A	Y
	FISHER	FQP-22-9/10A	NA								
	657-NS-ES	185	ASME III,CL2								
	NAMCO LIMIT SWITCH	EA 170									

3HSS#A0V64A	AUX FN PMP TURB STM BYPASS	ESB 00021 DM Y N 3G S NA NA	33+	A Y
	FQP-22-1B	NA		
667NSDBQNS	165	ASHE III,CL2		

3HSS-AOV64B	AUX FW PMP TURB STH BYPASS	ESB 00021 DM	Y	N	3G	S	NA	NA	33+	A Y
	FQP-22-1B	NA								
667NSDBQNS	185	ASHE III,CL2								

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SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS			STATUS			
	DESCRIPTION		BLDG	ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT														
	VEND MODEL	SPEC														
	MANUFACTURER	MANUFAC MODEL														

3HSS*AOV64D	AUX FM PMP TURB STH BYPASS		ESS	00021	DM	Y	N	3G	S	NA	NA	33+		A	Y
	667NSDBQNS	FQP-22-1B 185			NA										
					ASME	III,CL2									

3HSS*AOV65	SILENCER DRAIN		ESB	00021	DM	Y	N	3G	S	NA	NA	33+		A	Y
	667NS-ES	FQP-22-1B 185			NA										
					ASME	III,CL2									

HV - VALVE, HAND

3HSS*HV27A	MN STH ISOL BYP		MSV	00073	DM	Y	N	3B	S	NA	NA	33+		A
	FISHER	FQP-22-7			NA									
	667NS-DBQNS	185			ASME	III,CL2								
	NAHCO LIMIT SWITCH	EA 180												

3HSS*HV28B	MN STH ISOL BYP		MSV	00073	DM	Y	N	3G	S	NA	NA	33+		A
	FISHER	FQP-22-7			NA									
	667NS-DBQNS	185			ASME	III,CL2								
	NAHCO LIMIT SWITCH	EA 180												

3HSS*HV28C	MN STH ISOL BYP		MSV	00073	DM	Y	N	3G	S	NA	NA	33+		A
	FISHER	FQP-22-7			NA									
	667NS-DBQNS	185			ASME	III,CL2								
	NAHCO LIMIT SWITCH	EA 180												

3HSS*HV28D	MN STH ISOL BYP		MSV	00073	DM	Y	N	3G	S	NA	NA	33+		A
	FISHER	FQP-22-7			NA									
	667NS-DBQNS	185			ASME	III,CL2								
	NAHCO LIMIT SWITCH	EA 180												

SOV - VALVE, SOLENOID

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SYSTEM MSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	HTG	SEIS OTHER REQ'D	DYN.	INPUT	FREQ DIR
VENDOR	QUAL REPORT			RRS REF			
VEND MODEL	SPEC			CODES		(ZPA)	
MANUFACTURER	MANUFAC MODEL						

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3HSS*SOV28A1	MN STH ISOL BYP FISHER	AQR-67368 185	TB	00074	DM	Y	N	3G	N	SF	SD	35+	A	Y
	ASCO SOLENOID	NPK 8320			NA			IEEE 323,344,382						
3HSS*SOV28A2	MN STH ISOL BYP FISHER	AQR-67368 185	TB	00074	DM	Y	N	3G	N	SF	SD	35+	A	Y
	ASCO SOLENOID	NPK 8320			NA			IEEE 323,344,382						
3HSS*SOV28B1	MN STH ISOL BYP FISHER	AQR-67368 185	TB	00074	DM	Y	N	3G	N	SF	SD	35+	A	Y
	ASCO SOLENOID	NPK 8320			NA			IEEE 323,344,382						
3HSS*SOV28B2	MN STH ISOL BYP FISHER	AQR-67368 185	TB	00074	DM	Y	N	3G	N	SF	SD	35+	A	Y
	ASCO SOLENOID	NPK 8320			NA			IEEE 323,344,382						
3HSS*SOV28C1	MN STH ISOL BYP FISHER	AQR-67368 185	TB	00074	DM	Y	N	3G	N	SF	SD	35+	A	Y
	ASCO SOLENOID	NPK 8320			NA			IEEE 323,344,382						
3HSS*SOV28C2	MN STH ISOL BYP FISHER	AQR-67368 185	TB	00074	DM	Y	N	3G	N	SF	SD	35+	A	Y
	ASCO SOLENOID	NPK 8320			NA			IEEE 323,344,382						
3HSS*SOV28D1	MN STH ISOL BYP FISHER	AQR-67368 185	TB	00074	DM	Y	N	3G	N	SF	SD	35+	A	Y
	ASCO SOLENOID	NPK 8320			NA			IEEE 323,344,382						

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NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	LOADS	ANLYS TEST TEST FREQ DIR	NAT FREQS	F/B S/S VERT SQ INS
3HSS*SOV31A1	SGAFP TURB STM SPLY FISHER	AQR-67368 185	ESB 00026	EM Y N 3G NA IEEE 323,344,382		N SF SD	35+	A Y
	ASCO SOLENOID	NPK 8320						
3HSS*SOV31A2	SGAFP TURB STM SPLY FISHER	AQR-67368 185	ESB 00026	CH Y N 3G NA IEEE 323,344,382		N SF SD	35+	A Y
	ASCO SOLENOID	NPK 8320						
3HSS*SOV31B1	SGAFP TURB STM SPLY FISHER	AQR-67368 185	ESB 00026	EM Y N 3G NA IEEE 323,344,382		N SF SD	35+	A
	ASCO SOLENOID	NPK 8320						
3HSS*SOV31B2	SGAFP TURB STM SPLY FISHER	AQR-67368 185	ESB 00026	CH Y N 3G NA IEEE 323,344,382		N SF SD	35+	A Y
	ASCO SOLENOID	NPK 8320						
3HSS*SOV31D1	SGAFP TURB STM SPLY FISHER	AQR-67368 185	ESB 00026	EM Y N 3G NA IEEE 323,344,382		N SF SD	35+	A
	ASCO SOLENOID	NPK 8320						
3HSS*SOV31D2	SGAFP TURB STM SPLY FISHER	AQR-67368 185	ESB 00026	CH Y N 3G NA IEEE 323,344,382		N SF SD	35+	A Y
	ASCO SOLENOID	NPK 8320						

PV - VALVE, PRESSURE

3HSS*PV20A	MN STM PRESS RLING VLV	MSW 00069	D
	FISHER		
	188	3624	
	NAMCO LIMIT SWITCH	EA 188	

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	NAT FREQS VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR	
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

1. 凡在本行开立存款账户的客户，均可向本行申请开立支票。支票的签发和兑付，均须符合本行支票业务管理规定。

3MSS*PV20B	MN STM PRESS RLING VLV FISHER	100	3624	MSV 00069	D
	NAMCO LIMIT SWITCH	EA 100			
3MSS*PV20C	MN STM PRESS RLING VLV FISHER	100	3624	MSV 00069	D
	NAMCO LIMIT SWITCH	EA 100			
3MSS*PV20D	MN STM PRESS RLING VLV FISHER	100	3624	MSV 00069	D
	NAMCO LIMIT SWITCH	EA 100			

PI - INDICATOR, PRESSURE

3MSS*PI515B	STM GEN LOOP 1	15880,REV 2	CB	00048	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	A
	W TYPE 252,4-20 MA	246						NS(B)-017	REV 1B						
								IEEE	323						
3MSS*PI525B	STM GEN LOOP2 PRESS	15880,REV 2	CB	00048	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	A
	W TYPE 252,4-20 MA	246						NS(B)-017	REV 1B						
								IEEE	323						
3MSS*PI535B	STM GEN LOOP3 PRESS	15880,REV 2	CB	00048	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	A
	W TYPE 252,4-20 MA	246						NS(B)-017	REV 1B						
								IEEE	323						
3MSS*PI545B	STM GEN LOOP4 PRESS	15880,REV 2	CB	00048	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	A
	W TYPE 252,4-20 MA	246						NS(B)-017	REV 1B						
								IEEE	323						

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

[illegible]

PC - CONTROLLER, PRESSURE

3HSS-PC2081 MN STM PRESS RLIVING VLV CB 00048 RM Y N .40.15
NS(B)-017 REV1B
IEEE-344
392

PY - RELAY, COMPUTING, SELECTING OR BOOSTER, PRESSURE

3MSS*PY514B2	STH GEN LOOP 1 PRESS	CB	RH	Y	N	N	MF	MD	NA	NA	NA	D
	Q0AAB50		NS(B)-017	REV	1B							
	N-2AO-V2I	392	IEEE	344,323								

3H53*PY524B1	STM GEN LOOP 2 PRESS	CB	RH	Y	N	N	MF	MD	NA	NA	NA	D
	Q0AAB35		NS(B)-017	REV	1B							
	N-2AI-I2V	392	IEEE	344,323								

3HSS*PY53481	STH GEN LOOP 3 PRESS	CB	RM	Y	N	N	MF	MD	NA	NA	NA	D
	Q0AAB35		NS(B)-017	REV	1B							
	N-2AI-I2V	392	IEEE	344,323								

3HSS*PY5348Z	STM GEN LOOP 3 PRESS	CB	RM	Y	N		N	HF	MD	NA	NA	NA	D
		QOAA850											
	N-2AO-V2I	392				MS(B)-017 REV 1B							
						IEEE 344,323							

3HSS*PY54481	STM GEN LOOP 4 PRESS	CB	RM	Y	N	N	HF	MD	NA	NA	NA	D
	QQAAB35		NS(B)-017	REV	1B							
	N-2AI-I2V	392	IEEE	344,323								

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM MSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

.....

3HGSN PY54482	STM GEN LOOP 4 PRESS	CB	RM	Y	N	N	MF	MD	NA	NA	NA	D
	Q0AAB50		NS(B)-017	REV	1B							
	N-2A0-V2I	392	IEEE	344,323								

3HSS-PY51401 STH GEN LOOP 1 PRESS CB RM Y N D
NS(B)-017 REV 19
IEEE-344

392

RE - RADIOACTIVITY ELEMENT, PRIMARY

3HSSWRE75	MN STM REL LINE A	MSM 00070 DM Y N .48.16 D NA NA 33+ 33+ 33+ D
	KAMAN SCIENCES	K-84-50/K-84-13 NS(B)-070 REV 0B
	451005-001	624 IEEE 323,IEEE 344
	KAMAN	HMD-SO

3MSS#RE76	MN STM REL LINE B	MSV 00070 DM	Y	N	.48.16 D	NA	NA	33+	33+	33+	D
	KAMAN SCIENCES	K-84-50/K-84-13			NS(B)-070 REV 0B						
	451005-001	624			IEEE 323, IEEE 344						
	KAMAN	KMD-SO									

3HSS*RE77	MN STM REL LINE C	MSV 00070 DM Y N .48.16 D NA NA 33+ 33+ 33+ D
	KAMAN SCIENCES	K-84-50/K-84-13 NS(B)-070 REV 0B
	451005-001	624 IEEE 323,IEEE 344
	KAMAN	KMD-SD

[illegible]

3HSS*RE79	TURB DRIVEN AUX FDNTR PP DISCH	ESB 00036 CF	Y	N	.32.13 D	NA	NA	33+	33+	33+	D
	KAMAN SCIENCES	K-84-50/K-84-13	NS(B)-010 REV 0B								
	451005-001	624	IEEE 323, IEEE 344								
	KAMAN	KMD-SD									

REPORT NO. HSSQT1

PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC														
	END MODEL	MANUFAC MODEL														

RIY - RADIATION INDICATING RELAY

3HSS*RIY75	PART & GAS RAD MON KAMAN SCIENCES KEN-S(450953-011)	MSV 00024 K-84-50/16683-8 624	CH	Y	N	.48.16	N	MF	MD	24.0	24.0	28.0	B			
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3HSS*RIY76	PART & GAS RAD MON KAMAN SCIENCES KEN-S(450953-011)	MSV 00024 K-84-50/16683-8 624	CH	Y	N	.48.16	N	MF	MD	24.0	24.0	28.0	B			
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3HSS*RIY77	PART & GAS RAD MON KAMAN SCIENCES KEN-S(450953-011)	MSV 00024 K-84-50/16683-8 624	CH	Y	N	.48.16	N	MF	MD	24.0	24.0	28.0	B			
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3HSS*RIY78	PART & GAS RAD MON KAMAN SCIENCES KEN-S(450953-011)	MSV K-84-50/16683-8 624	CH	Y	N	.48.16	N	MF	MD	24.0	24.0	28.0	B			
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3HSS*RIY79	PART & GAS RAD MON KAMAN SCIENCES KEN-S(450953-011)	ESB 00036 K-84-50/16683-8 624	CH	Y	N	.40.14	N	MF	MD	24.0	24.0	28.0	B			
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HOV - VALVE, MOTOR OPERATED

3HSS*HOV74A	MOTOR OP GLOBE VALVE PACIFIC VALVES 56009-7-E-WE-X LIMITORQUE	FA-5593 651 SHB-0-40	MSV 00071	DM	Y	N	36	S	NA	NA	33+		A	Y		
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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM MSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS			STATUS	
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	ITG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ INS

3HSS*MOV74B	MOTOR OP GLOBE VALVE PACIFIC VALVES 56009-7-E-NE-X LIMITORQUE	FA-5593 651 SMB-0-40	MSV 00071	DM	Y	N	3G	S	NA	NA		33+		A Y
3HSS*MOV74C	MOTOR OP GLOBE VALVE PACIFIC VALVES 56009-7-E-NE-X LIMITORQUE	FA-5593 651 SMB-0-40	MSV 00071	DM	Y	N	3G	S	NA	NA		33+		A Y
3HSS*MOV74D	MOTOR OP GLOBE VALVE PACIFIC VALVES 56009-7-E-NE-X LIMITORQUE	FA-5593 651 SMB-0-40	MSV 00071	DM	Y	N	3G	S	NA	NA		33+		A Y

PT - TRANSMITTER, PRESSURE

3HSS*PT505	TURB IMP CHAMBER PRESS ROSEMOUNT 1153GB GUAGE PRSSR TRANSMTR	108025 662 1153GB8PC	TB 00043	RM	Y	N	.33.22	N	HF	MD	50	47	50	A Y
3HSS*PT506	TURB IMP CHAMBER PRESS ROSEMOUNT 1153GB GUAGE PRSSR TRANSMTR	108025 662 1153GB8PC	TB 00043	RM	Y	N	.33.22	N	HF	MD	50	47	50	A Y
3HSS*PT514	STH GEN LOOP1 PRESS ROSEMOUNT 1153GB GUAGE PRSSR TRANSMTR	108025 662 1153GB9PC	MSV 00049	RM	Y	N	.30.14	N	HF	MD	50	47	50	A Y
3HSS*PT515	STH GEN LOOP1 PRESS ROSEMOUNT 1153GB GUAGE PRSSR TRANSMTR	108025 662 1153GB9PC	MSV 00049	RM	Y	N	.30.14	N	HF	MD	50	47	50	A Y

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PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

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REPORT DATE 10/11/84

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D	NAT FREQS	F/B	S/S	VERT	SQ	INS
			RRS REF CODES	DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR					
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
3HSS*PT516	STM GEN LOOP1 PRESS ROSEMOUNT 1153GB GUAGE PRESSURE TRNSM	108025 662 1153GB9PC	MSV 00049 RH Y N .30.14 N HF MD 50 47 50 A Y	NS(B)-070 REV 0B IEEE-323,344						
3HSS*PT524	STM GEN LOOP2 PRESS ROSEMOUNT 1153GB GUAGE PRSSR TRANSMTR	108025 662 1153GB9PC	MSV 00049 RH Y N .30.14 N HF MD 50 47 50 A Y	NS(B)-070 REV 0B IEEE-323,344						
3HSS*PT525	STM GEN LOOP2 PRESS ROSEMOUNT 1153GB GUAGE PRSSR TRANSMTR	108025 662 1153GB9PC	MSV 00049 RH Y N .30.14 N HF MD 50 47 50 A Y	NS(B)-070 REV 0B IEEE-323,344						
3HSS*PT526	STM GEN LOOP2 PRESS ROSEMOUNT 1153GB GUAGE PRSSR TRANSHTR	108025 662 1153GB9PC	MSV 00049 RH Y N .30.14 N HF MD 50 47 50 A Y	NS(B)-070 REV 0B IEEE-323,344						
3HSS*PT534	STM GEN LOOP3 PRESS ROSEMOUNT 1153GB GUAGE PRSSR TRANSHTR	108025 662 1153GB9PC	MSV 00049 RH Y N .30.14 N HF MD 50 47 50 A Y	NS(B)-070 REV 0B IEEE-323,344						
3HSS*PT535	STM GEN LOOP3 PRESS ROSEMOUNT 1153GB GUAGE PRSSR TRANSHTR	108025 662 1153GB9PC	MSV 00049 RH Y N .30.14 N HF MD 50 47 50 A Y	NS(B)-070 REV 0B IEEE-323,344						
3HSS*PT536	STM GEN LOOP3 PRESS ROSEMOUNT 1153GB GUAGE PRSSR TRANSHTR	108025 662 1153GB9PC	MSV 00049 RH Y N .30.14 N HF MD 50 47 50 A Y	NS(B)-070 REV 0B IEEE-323,344						

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PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM MSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

[illegible]

3MSS*PT544	STH GEN LOOP4 PRESS ROSEMOUNT 108025 1153GB 662 GUAGE PRSSR TRANSMTR 1153GB9PC	MSV 00049 RH Y N .30.14 N NS(B)-070 REV 0B IEEE-323,344	HF	MD	50	47	50	A	Y
3MSS*PT545	STH GEN LOOP4 PRESS ROSEMOUNT 108025 1153GB 662 GUAGE PRSSR TRANSMTR 1153GB9PC	MSV 00049 RH Y N .30.14 N NS(B)-070 REV 0B IEEE-323,344	HF	MD	50	47	50	A	Y
3MSS*PT546	STH GEN LOOP4 PRESS ROSEMOUNT 108025 1153GB 662 GUAGE PRSSR TRANSMTR 1153GB9PC	MSV 00049 RH Y N .30.14 N NS(B)-070 REV 0B IEEE-323,344	HF	MD	50	47	50	A	Y

NSSS EQUIPMENT

FE - FLOW ELEMENT

3HSS*FE19A	MN STM FLOW	CS 00052 DM	D
	001	*	
3HSS*FE19B	MN STM FLOW	CS 00052 DM	D
	001		
3HSS*FE19C	MN STM FLOW	CS 00052 DM	D
	001		

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

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SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM MSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS
	DESCRIPTION		BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	
	VENDOR	QUAL REPORT			RRS REF	DYN.	INPUT				
	VEND MODEL	SPEC			CODES		(ZPA)	FREQ	DIR		
	MANUFACTURER	MANUFAC MODEL									

3MSS*FE19D	NN STM FLOW		CS	00052	DM							D
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001

PI - INDICATOR,PRESSURE

3MSS*PI514A	STM GEN LOOP1 PRESS		CB	00048	DM							D
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001

3MSS*PI514B	STM GEN LOOP1 PRESS		CB	00048	DM							D
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001

3MSS*PI515A	STM GEN LOOP 1		CB	00048	DM							D
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001

3MSS*PI516A	STM GEN LOOP1 PRESS		CB	00048	DM							D
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001

3MSS*PI524A	STM GEN LOOP2 PRESS		CB	00048	DM							D
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001

3MSS*PI524B	STM GEN LOOP2 PRESS		CB	00048	DM							D
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001

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3HSS*PI525A	STM GEN LOOP2 PRESS		CB 00048 DM				D
	001						
3HSS*PI526A	STM GEN LOOP2 PRESS		CB 00048 DM				D
	001						
3HSS*PI534A	STM GEN LOOP3 PRESS		CB 00048 DM				D
	001						
3HSS*PI534B	STM GEN LOOP3 PRESS		CB 00048 DM				D
	001						
3HSS*PI535A	STM GEN LOOP3 PRESS		CB 00048 DM				D
	001						
3HSS*PI536A	STM GEN LOOP3 PRESS		CB 00048 DM				D
	001						
3HSS*PI544A	STM GEN LOOP4 PRESS		CB 00048 DM				D
	001						

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-023

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM HSS - MAIN STEAM SYSTEM (FOSSIL AND NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYH. INPUT	FREQ DIR
VEND MODEL	SPEC	CODES	(ZPA)	
MANUFACTURER	MANUFAC MODEL			

[illegible]

3HSS*PI544B STH GEN LOOP4 PRESS CB 00048 DH D

3HSS*PI545A STM GEN LOOP4 PRESS CB 00048 DM D

001

3MSS*PI546A STM GEN LOOP4 PRESS CB 00048 DM D

001

ZS - SWITCH, POSITION

3MSS*Z559 MN STM STOP VLV POS TB 00065 EN D

001

3MSSWZS60 NN STM STOP VLV POS TB 00065 EM D

001

3HSS*Z561 MN STM STOP VLV POS TB 00065 EM 001

3HSS*Z562 MN STM STOP VLV POS TB 00065 EM D

001

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM QSS - QUENCH SPRAY SYSTEM (CONTAINMENT)

EQUIPMENT ID	DESCRIPTION	VENDOR	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VEND MODEL		SPEC					DYN. INPUT									
	MANUFACTURER		MANUFAC MODEL					(ZPA)									

SPEC EQUIPMENT

TK - TANK

3QSS*TK2	REFUEL WATER CHEM ADD TK	OY	00024	CF	Y	N	.34.24	S	SF	SD	55+	55+	55+	A
	P X ENG	12179-IA-179		NA										
	473-3	022		ASME SECT III,CL2										

TK - TANK

3QSS*TK1	REFUEL WATER STORAGE TANK	OY	00024	CF	Y	Y	.34.24	S	SF	MD	3.56	3.56	3.56	A
	RICHMOND	12179-IE-514		FSAR FIG.3.7B-1&2										
	D74415-2A	023		ASME SECT III,CL2										

P - PUMP

3QSS*P3A	QUENCH SPRAY PUMP	ESB	00021	CF	Y	Y	.23.12	D	SF	MD	20+	20+	20+	A	Y
	GE.CO.	ME-243		NS(B)-010-REV 0B											
	3415 S	040		ASME III,CL2											
	G.E.	HORIZONTAL 8288S													

3QSS*P3B	QUENCH SPRAY PUMP	ESB	00021	CF	Y	Y	.23.12	D	SF	MD	20+	20+	20+	A	Y
	GE.CO.	ME-243		NS(B)-010-REV 0B											
	3415 S	040		ASME III,CL2											
	G.E.	HORIZONTAL 8288S													

MOV - VALVE, MOTOR OPERATED

REPORT NO. NSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM QSS - QUENCH SPRAY SYSTEM (CONTAINMENT)

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS		STATUS	
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	HTG	SEIS	OTHER REQ'D	ANLYS TEST	TEST	F/B	S/S	VERT	SQ	INS
3QSS*MOV29A	REFUEL WTR CHEM ADD TK DISCHG HALNORTH D-51736 LIMITORQUE OPERATOR	ADSR-4 153 SMB-00-10	OY 00024	DM	Y	N	3G	S	NA	NA	33+	A	Y
3QSS*MOV29B	REFUEL WTR CHEM ADD TK DISCHG HALNORTH D-51736 LIMITORQUE OPERATOR	ADSR-4 153 SMB-00-10	OY 00024	DM	Y	N	3G	S	NA	NA	33+	A	Y

MOV - VALVE, MOTOR OPERATED

3QSS*MOV34A	QUENCH SPRAY HDR ISOL HENRY PRATT NMK II LIMITORQUE OPERATOR	D-0057-1,3,4,5 164 SMB-00-2	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A	Y
3QSS*MOV34B	QUENCH SPRAY HDR ISOL HENRY PRATT NMK II LIMITORQUE OPERATOR	D-0057-1,3,4,5 164 SMB-00-2	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A	Y
3QSS*MOV44A	QSS PUMP DISCH HENRY PRATT NMK II LIMITORQUE OPERATOR	D-0057-13 164 SMB-00-5	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A	Y
3QSS*MOV44B	QSS PUMP DISCH HENRY PRATT NMK II LIMITORQUE OPERATOR	D-0057-13 164 SMB-00-5	ESB 00021	DM	Y	N	3G	S	NA	NA	33+	A	Y

AOV - VALVE, AIR OPERATED

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPFC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM QSS - QUENCH SPRAY SYSTEM (CONTAINMENT)

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLOG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC			RRS	DYN.	INPUT									
	VEND MODEL	MANUFAC MODEL			CODES		(ZPA)									

3QSS*AOV27	REFUEL WTR RECRC PMP	SUCT ISOL	OY	00028	DM	Y	N	3G	S	NA	NA		33+		A	Y
	FISHER	6K144-01			NA											
	7811	185			ASME III,CL2											
	NAHCO LIMIT SWITCH	EA 160														

3QSS*AOV28	REFUEL WTR RECRC PMP	SUCT	OY	00028	DM	Y	N	3G	S	NA	NA		33+		A	Y
	FISHER	6K144-01			NA											
	7811	185			ASME III,CL2											
	NAHCO LIMIT SWITCH	EA 180														

SOV - VALVE, SOLENOID

3QSS*SOV27	REFUEL WTR RECRC PMP	SUCT ISOL	OY	00028	EH	Y	N	3G	N	SF	SD		35+		A	Y
	FISHER	AQR-67368			NA											
		185			IEEE 323,344,382											
	ASCO SOLENOID	NPK 8320														

3QSS*SOV28	REFUEL WTR RECRC PMP	SUCT	OY	00028	EH	Y	N	3G	N	SF	SD		35+		A	Y
	FISHER	AQR-67368			NA											
		185			IEEE 323,344,382											
	ASCO SOLENOID	NPK 8320														

LI - INDICATOR, LEVEL

3QSS*LI930A	REFUEL WTR STOR TK LVL	15880, REV 2	CB	00048	CH	Y	N	.40.15	N	HF	HD	NA	NA	NA	A
	INT'L INST 1151VB	246			NS(B)-017 REV 1B										
					IEEE 323										

3QSS*LI931A	REFUEL WTR STOR TK LVL	15880, REV 2	CB	00048	CH	Y	N	.40.15	N	HF	HD	NA	NA	NA	A
	INT'L INST 1151VB	246			NS(B)-017 REV 1B										
					IEEE 323										

LS - SWITCH, LEVEL

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM QSS - QUENCH SPRAY SYSTEM (CONTAINMENT)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

.....

3QSS*LS54A	REFUEL MTR STOR TK LVL AUTOMATIC SWITCH CO SB31AKRTD30A32BRX 626 ASCO PRESSURE SWITCH SB31AKR/TD30A32BRX	ESB 00004 RM Y N .23.12 NS(B)-010 REV 0B IEEE 323-1974&IEEE 344-1975							D	Y
3QSS*LS54B	REFUEL MTR STOR TK LVL AUTOMATIC SWITCH CO SB31AKRTD30A32BRX 626 ASCO PRESSURE SWITCH SB31AKR/TD30A32BRX	ESB 00005 RM Y N .23.12 NS(B)-010 REV 0B IEEE 323-1974&IEEE 344-1975							D	Y
3QSS*LS54C	REFUEL MTR STOR TK LVL AUTOMATIC SWITCH CO SB31AKRTD30A32BRX 626 ASCO PRESSURE SWITCH SB31AKR/TD30A32BRX	ESB 00005 RM Y N .23.12 NS(B)-010 REV 0B IEEE 323-1974&IEEE 344-1975							D	Y
3QSS*LS54D	REFUEL MTR STOR TK LVL AUTOMATIC SWITCH CO SB31AKRTD30A32BRX 626 ASCO PRESSURE SWITCH SB31AKR/TD30A32BRX	ESB 00005 RM Y N .23.12 NS(B)-010 REV 0B IEEE 323-1974&IEEE 344-1975							D	
3QSS*LS55A	REFUEL MTR STOR TK LVL AUTOMATIC SWITCH CO AQR-10183 R.O SB21AKRTE20A32BRX 626 ASCO PRESSURE SWITCH SB21AKR/TE20A32BRX	ESB 00005 RM Y N .23.12 N NS(B)-010 REV 0B IEEE 323-1974&IEEE 344-1975	SF	SD	40+	40+	40+	A		
3QSS*LS55B	REFUEL MTR STOR TK LVL AUTOMATIC SWITCH CO AQR-10183 R.O SB21AKRTE20A32BRX 626 ASCO PRESSURE SWITCH SB21AKR/TE20A32BRX	ESB 00005 RM Y N .23.12 N NS(B)-010 REV 0B IEEE 323-1974&IEEE 344-1975	SF	SD	40+	40+	40+	A		
3QSS*LS55C	REFUEL MTR STOR TK LVL AUTOMATIC SWITCH CO AQR-10183 R.O SB21AKRTE20A32BRX 626 ASCO PRESSURE SWITCH SB21AKR/TE20A32BRX	ESB 00005 RM Y N .23.12 N NS(B)-010 REV 0B IEEE 323-1974&IEEE 344-1975	SF	SD	40+	40+	40+	A		

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM QSS - QUENCH SPRAY SYSTEM (CONTAINMENT)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

[illegible]

3QSS*LS55D	REFUEL WTR STOR TK LVL AUTOMATIC SWITCH CO AQR-10183 R.O SB21AKRTE20A32BRX 626 ASCO PRESSURE SWITCH SB21AKR/TE20A32BRX	ESB 00005 RM Y N .23.12 N SF SD 40+ 40+ 40+ A
3QSS*LS56A	REFUEL WTR STOR TK LVL AUTOMATIC SWITCH CO AQR-10183 R.O SB21AKRTE20A32BRX 626 ASCO PRESSURE SWITCH SB21AKR/TE20A32BRX	ESB 00004 RM Y N .23.12 N SF SD 40+ 40+ 40+ A Y
3QSS*LS56B	REFUEL WTR STOR TK LVL AUTOMATIC SWITCH CO AQR-10183 R.O SB21AKRTE20A32BRX 626 ASCO PRESSURE SWITCH SB21AKR/TE20A32BRX	ESB 00005 RM Y N .23.12 N SF SD 40+ 40+ 40+ A Y
3QSS*LS56C	REFUEL WTR STOR TK LVL AUTOMATIC SWITCH CO AQR-10183 R.O SB21AKRTE20A32BRX 626 ASCO PRESSURE SWITCH SB21AKR/TE20A32BRX	ESB 00005 RM Y N .23.12 N SF SD 40+ 40+ 40+ A Y
3QSS*LSF40	REFUEL WTR STOR TK LVL AUTOMATIC SWITCH CO AQR-10183 R.O SB21AKRTE20A32BRX 626 ASCO PRESSURE SWITCH SB21AKR/TE20A32BRX	ESB 00005 RM Y N .23.12 N SF SD 40+ 40+ 40+ A Y

LT - TRANSMITTER, LEVEL

3QSS*LT930	REFUEL WTR STOR TK LVL	ESB 00004 RH	Y	N	.20.12	N	MF	MD	50	47	50	A	Y
	ROSEMOUNT	108025	NS(B)-010 REV 0B										
	1153GB	662	IEEE-323,344										
	DIFF PRESSURE TRANSM	1153DB6PC											
3QSS*LT931	REFUEL WTR STOR TK LVL	ESB 00004 RH	Y	N	.20.12	N	MF	MD	50	47	50	A	Y
	ROSEMOUNT	108025	NS(B)-010 REV 0B										
	1153DB	662	IEEE-323,344										
	DIFF PRESSURE TRANSM	1153DB6PC											

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PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM QSS - QUENCH SPRAY SYSTEM (CONTAINMENT)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3QSS*LT932	REFUEL WTR STOR TK LVL ROSEMOUNT 1153DB DIFF PRESSURE TRANSM 1153DB6PC	108025 662	ESB 00004 RM NS(B)-010 REV CB IEEE-323,344	Y N .20.12 N	MF MD 50 47 50	A Y
3QSS*LT933	REFUEL WTR STOR TK LVL ROSEMOUNT 1153DB DIFF PRESSURE TRANSM 1153DB6PC	108025 662	ESB 00004 RM NS(B)-010 REV CB IEEE-323,344	Y N .20.12 N	MF MD 50 47 50	A Y

NSSS EQUIPMENT

LI - INDICATOR, LEVEL

3QSS*LI930	REFUEL WTR STOR TK LVL 001	CB 00048 EM				D
3QSS*LI931	REFUEL WTR STOR TK LVL 001	CB 00048 EM				D
3QSS*LI932	REFUEL WTR STOR TK LVL 001	CB 00048 EM				D
3QSS*LI933	REFUEL WTR STOR TK LVL 001	CB 00048 EM				D

LR - RECORDER, LEVEL

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM QSS - QUENCH SPRAY SYSTEM (CONTAINMENT)

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	HTG	SEIS OTHER	REQ'D	ANLYS TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR												
	VEND MODEL	SPEC											
	MANUFACTURER	MANUFAC MODEL											

3QSS*LR930

REFUEL WTR STOR TK LVL

CB 00048 EM

D

001

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VEPT	SQ	INS	STATUS
	VENDOR			RRS	REF	DYN.	INPUT		FREQ	DIR					
	VEND MODEL	SPEC		CODES			(ZPA)								
	MANUFACTURER	MANUFAC MODEL													

SHEC EQUIPMENT

AV - VALVE, ANALYZER; VALVE, AIR OPERATED, (WESTINGHOUSE)

3RCS=AV8036B	CHS FILL HDR TO LOOP 2	CS	00012	DM											D	Y
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PNL - PANEL

3RCS=PNL10	BACK UP PEN BKR PRESS HTR CLR	MRC	00024												D	Y
	G.E.CO.															
	G.E.	120/140	VAC													
3RCS=PNL2P	240/120V 1PH AC DIST PNL	CH	Y	N	.27.16	N	HF	MD	11.5	15.5					A	
	46368-1	NS(B)-007, REV 0B														
	CCB	IEEE 344														

PI - INDICATOR, PRESSURE

3RCS=PI49	WIDE RNG LOOP 4 PRESS	CS														
	SQP-99X2087-A	CH	Y	N	.40.15	N	HF	MD	NA	NA	NA				C	
	LATER	NS(B)-017, REV 1B														
		IEEE 344														

HV - VALVE, MOTOR OPERATED

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS		STATUS					
	DESCRIPTION		BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST		F/B	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT	RR3	REF	DYN.	INPUT			FREQ	DIR							
	VEND MODEL	SPEC	CODES			(ZPA)											
	MANUFACTURER	MANUFAC MODEL															

3RCS*HV8000A	PZR RELIEF ISOL WALWORTH D-51741-4 LIMITORQUE OPERATOR	ADSR-9 153 SNB-00-25	CS	00078	DM	Y	N	3G	S	NA	NA	33+	A	Y
3RCS*HV8000B	PZR RELIEF ISOL WALWORTH D-51741-4 LIMITORQUE OPERATOR	ADSR-9 153 SNB-00-25	CS	00078	DM	Y	N	3G	S	NA	NA	33+	A	Y

AV - VALVE, ANALYZER; VALVE, AIR OPERATED, (WESTINGHOUSE)

3RCS*AV8032	RX VSL LKOFF TO RC DRNS FISHER 657NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-1B 185 EA 180	CS		DM	Y	N	3G	S	NA	NA	33+	A	
3RCS*AV8145	RX CLNT SYS SPRAY FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-1A 185 EA 180	CS	00005	DM	Y	N	3G	S	NA	NA	33+	A	
3RCS*AV8153	EXCESS LYDN LINE ISOL FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-1A 185 EA 180	CS	00007	DM	Y	N	3G	S	NA	NA	33+	A	Y

LCV - VALVE, CONTROL, LEVEL, SELF ACTUATED

3RCS*LCV459	PZR TK1 FISHER 667NS-ES NAMCO LIMIT SWITCH	FQP-22-1A 185 EA 180	CS	00007	DM	Y	N	3G	S	NA	NA	33+	A	Y
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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSC SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS			STATUS	
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODFL	BLOG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ INS
					RRS REF	DYN.	INPUT							
					CODES		(ZPA)							

3RCS*LCV460	PZR TK1 FISHER 667NS-ES NANCO LIMIT SWITCH	FQP-22-1A 185 EA 180	CS	DM	Y	N	3G	S	NA	NA	33+	A	Y
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SOV - VALVE, SOLENOID

3RCS*SOV459	PRESSURIZER TK1 FISHER ASCO SOLENOID	AQR-67368 185 NPK 8320	CS	EM	Y	N	3G	N	SF	SD	35+	A	Y
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3RCS*SOV460	PRESSURIZER TK1 FISHER ASCO SOLENOID	AQR-67368 185 NPK 8320	CS	EM	Y	N	3G	N	SF	SD	35+	A	Y
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SV - VALVE; SOLENOID, (WESTINGHOUSE)

3RCS*SV0032	RX VSL LKOFF TO RC DRNS FISHER ASCO SOLENOID	AQR-67368 185 NPK 8320	CS	EM	Y	N	3G	N	SF	SD	35+	A	Y
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3RCS*SV0145	RX CLT SYS SPRAY FISHER ASCO SOLENOID	AQR-67368 185 NPK 8320	CS	EM	Y	N	3G	N	SF	SD	35+	A	
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3RCS*SV0153	EXCESS LTDN ISOL FISHER ASCO SOLENOID	AQR-67368 185 NPK 8320	CS	00007	EM	Y	N	3G	N	SF	SD	35+	A	Y
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PI - INDICATOR, PRESSURE

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC	RRS REF		DYN.	INPUT										
	VEND MODEL	MANUFAC MODEL	CODES			(ZPA)										

3RCS*PIS0	WIDE RNG LOOP 4 PRESS	CB	CH	Y	N	.40.15	N	HF	MD	NA	NA	NA	NA	NA	C
	SQP-99X2087-A		NS(B)-017	REV 1B											
	245		IEEE	344											

PNL - PANEL

3RCS*PNL10	240/120V 1PH AC DIST PNL	HRC 00024	CH	Y	N	.27.16	N	HF	MD	11.5	15.5				A
	GE	46368-1	NS(B)-007	REV 0B											
	CCB	263	IEEE	344											

3RCS*PNL20	BACK UP PEN BHR PRESS HTR CLR	HRC 00024													D Y
	G.E.CO.														
	263		3624												
	G.E.	120/140 VAC													

PY - RELAY, COMPUTING, SELECTING OR BOOSTER, PRESSURE

3RCS*PY49	WIDE RNG LOOP 1 PRESS	CB	RM	Y	N		N	HF	MD	NA	NA	NA	NA	D
	Q0AAB35		NS(B)-017	REV 1B										
	392		IEEE	344,323										

3RCS*PY50	WIDE RNG LOOP 4 PRESS	CB	RM	Y	N		N	HF	MD	NA	NA	NA	NA	D
	Q0AAB35		NS(B)-017	REV 1B										
	392		IEEE	344,323										

TY - RELAY, COMPUTING, SELECTING OR BOOSTER, TEMPERATURE

REPORT NO. MSSQT1

PLANT NAME	HILLSTONE UNIT 3
UTILIFY	MUSCO

UTILIFY	NUSCO
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DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQ	STATUS			
	VENDOR	QUAL REPORT	BLDG ELEV	SEIS OTHER REQ'D	ANLYS TEST	F/B	VERT SQ INS			
	VEND MODEL	SPEC	RIS REF	DYN. INPUT	FREQ DIP					
	MANUFACTURER	MANUFAC MODEL	COOES	(ZPA)						
3RCS-TY941S	WIDE RANGE LP 1 HOT LEG TEMP	QQAAB50 392	RH	IEEE 344,323	N	HF	HD	NA	NA	D
3RCS-TY941T	WIDE RANGE LP 1 HOT LEG TEMP	QQAAB29 392	RH	IEEE 344,323	N	HF	HD	NA	NA	D
3RCS-TY942S	WIDE RING LOOP 2 HOT LEG TEMP	QQAAB50 392	RH	IEEE 344,323	N	HF	HD	NA	NA	D
3RCS-TY942T	WIDE RING LOOP 2 HOT LEG TEMP	QQAAB29 392	RH	IEEE 344,323	N	HF	HD	NA	NA	D
3RCS-TY943B	WIDE RING LP3 HOT LEG TEMP		RH	IEEE 344,323	N	HF	HD	NA	NA	D
3RCS-TY943T	WIDE RING LOOP3 HOT LEG TEMP	QQAAB29 392	RH	IEEE 344,323	N	HF	HD	NA	NA	D
3RCS-TY943S	WIDE RING LOOP4 HOT LEG TEMP	QQAAB50 392	RH	IEEE 344,323	N	HF	HD	NA	NA	D

REPORT NO. NSSQT-

PLANT NAME	HILLSTONE UNIT 3
UTILITY	MUSCO

UTILITY	MUSCO
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
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100	100

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, ECG, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSS\$ SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

[illegible]

FT - TRANSMITTER, FLOW

[illegible]

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT SPEC MANUFAC MODEL	LOCATION BLDG ELEV HTG RRS REF CODES	LOADS SEIS OTHER DYN. INPUT (ZPA)	REQ'D ANLYS TEST TEST FREQ DIR	QUAL METH	NAT FREQS F/B S/S	VERT	SQ INH	STATUS
3RCSWFT434	RC FLOW LOOP 3 WESTINGHOUSE 115300 HIGH DIFF PR TRNSMTR	08300040 662 1153HD5PC	CS 00003 RH Y N	.33.20 N	HF MD 38 38 60	A Y				
3RCSWFT435	RC FLOW LOOP 3 WESTINGHOUSE 115300 HIGH DIFF PR TRNSMTR	08300040 662 1153HD5PC	CS 00003 RH Y N	.33.20 N	HF MD 38 38 60	A Y				
3RCSWFT436	RC FLOW LOOP 3 WESTINGHOUSE 115300 HIGH DIFF PR TRNSMTR	08300040 662 1153HD5PC	CS 00003 RH Y N	.33.20 N	HF MD 38 38 60	A Y				
3RCSWFT444	RC FLOW LOOP 4 WESTINGHOUSE 115300 HIGH DIFF PR TRNSMTR	08300040 662 1153HD5PC	CS 00003 RH Y N	.33.20 N	HF MD 38 38 60	A Y				
3RCSWFT445	RC FLOW LOOP 4 WESTINGHOUSE 115300 HIGH DIFF PR TRNSMTR	08300040 662 1153HD5PC	CS 00003 RH Y N	.33.20 N	HF MD 38 38 60	A Y				
3RCSWFT446	RC FLOW LOOP 4 WESTINGHOUSE 115300 HIGH DIFF PR TRNSMTR	08300040 662 1153HD5PC	CS 00003 RH Y N	.33.20 N	HF MD 38 38 60	A Y				
LT	- TRANSMITTER, LEVEL									
3RCSWLT460	PRESSURIZER TH1 WESTINGHOUSE 115300 HIGH DIFF PR TRNSMTR	08300040 662 1153HD5PC	CS 00003 RH Y N	.33.20 N	HF MD 38 38 60	A Y				

REPORT NO. MSS071

PLANT NAME HILLSTONE UNIT 3
UTILITY NEJSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	VENDOR	EQUIPMENT		LOCATION		LOADS		QUAL METH		F/B		STATUS								
			MANUFACTURER	SPEC	MODEL	MANUFAC MODEL	BLOG ELEV	MTG	SEIS OTHER	FREQ'D	ANLYS	TEST		TEST							
JRCS*LT461	PRESSURIZER TNL	WESTINGHOUSE	08300040	662	115300	HIGH DIFF PR TRANSMTR	1153003PC	CS	00003	RM	Y	N	.33.20	N	HF	MD	30	30	60	A	Y

PT - TRANSMITTER, PRESSURE

JRCS*PT403	WIDE RING LOOP 4 HOT LEG	WESTINGHOUSE	08300040	662	115300	GUAGE PRSR TRANSMTR	1153009PC	CS	00003	RM	Y	N	.33.20	N	HF	MD	30	30	60	A	Y
JRCS*PT457	PRESSURIZER TNL 1 PRESS	WESTINGHOUSE	08300040	662	115300	GUAGE PRSR TRANSMTR	1153009PC	CS	00003	RM	Y	N	.33.20	N	HF	MD	30	30	60	A	Y
JRCS*PT458	PRESSURIZER TNL	WESTINGHOUSE	08300040	662	115300	GUAGE PRSR TRANSMTR	1153009PC	CS	00003	RM	Y	N	.33.20	N	HF	MD	30	30	60	A	Y

TE - TEMPERATURE ELEMENT, PRIMARY

JRCS*TE413C	WIDE RANGE LP 1 HOT LEG TEMP	WESTINGHOUSE	08300040	662	115300	GUAGE PRSR TRANSMTR	1153009PC	CS	00018	DM	Y	N	3.0	N	HF	MD	33+				A
JRCS*TE423C	WIDE RING LOOP 2 HOT LEG TEMP	WESTINGHOUSE	08300040	662	115300	GUAGE PRSR TRANSMTR	1153009PC	CS	00018	DM	Y	N	3.0	N	HF	MD	33+				A

REPORT NO. MSSQTL

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, ECC, EQUIPMENT ID

REPORT DATE 10/11/64

PLANT NAME	HILLSTONE UNIT 3
UTILITY	NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
 NCSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQS	STATUS
	VENDOR	BLOG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST	F/B	S/S	VERT SQ INS
	VEND MODEL	RSS REF	DYN.	INPUT	FREQ DLR		
	MANUFACTURER	CODES	(ZPA)				
JRCST-TE43JC	WIDE RING LOOP3 HOT LEG TEMP	CS 00018	DM Y N	3.0	N	HF MD	A
	NEED INSTRUMENT CO 3035-00125-14	NA					
	0356-00125-024	IEEE 323,394					
	NEED RTD						
JRCST-TE43JC	WIDE RING LOOP4 HOT LEG TEMP	CS 00018	DM Y N	3.0	N	HF MD	A
	NEED INSTRUMENT CO 3035-00125-14	NA					
	0356-00125-024	IEEE 323,394					
	NEED RTD						

ROSS EQUIPMENT

AV - VALVE, ANALYZER; VALVE, AIR OPERATED, (NESTINGHOUSE)

IRCS+AV8036A	CHS FILL HOR TO LOOP 1	CS 00012 DH	D Y
	001		
IRCS+AV8036C	CHS FILL HOR TO LOOP 3	CS 00012 DH	D Y
	001		
IRCS+AV8036D	CHS FILL HOR TO LOOP 4	CS 00012 DH	D Y
	001		
IRCS+AV8037A	LOOP 1 TO CHS LTDN DRN HOR	CS 00012 DH	D Y
	001		

REPORT NO. MSSQTL

PLANT NAME	MILLSTONE UNIT 3
UTILITY	NUSCO

UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REFORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQ	STATUS
	VENDOR		BLDG ELEV	MFG SEIS OTHER	ANLYS TEST	F/B S/S	VERT SQ INS
	VEND MODEL		RFS REF	DYN.	FREQ DIR		
	MANUFACTURER		CODES	(ZPA)			
			MANUFAC	MODEL			

JRCS#AV00370 LOOP 2 TO CHS LYDN DRN HDR CS 00012 CH D Y

JRCS+AVR037C LOOP 3 TO CHS LYON DRN HDR CS 00005 DH D Y

3RCS+AVE0370 LOOP 4 TO CHS LTDN DRN HOR CS 00005 DN D Y

FIS - SWITCH, INDICATING, FLOW

JRCS-FIS418A LOOP 1 STOP VALVE CS 00003 EM D Y

JRCS=FIS416B LOOP 1 STOP VALVE CS 0003 EN D Y

JRCS#FIS426A LOOP 2 STOP VALVE CS 00003 EM D Y

3RCS#F154280	LOOP 2 STOP VALVE	CS 00003 EM	D Y

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS		
	DESCRIPTION	QUAL REPORT	BLDG ELEV	HTG	SEIS OTHER	REQ'D	ANLYS TEST	TEST	F/B	S/S		VERT	SQ
	VENDOR	SPEC			RRS REF	DYN. INPUT							
	VEND MODEL	SPEC			RRS REF	DYN. INPUT							
	MANUFACTURER	MANUFAC MODEL			RRS REF	DYN. INPUT							

3RCS*FIS438A	LOOP 3 STOP VALVE		CS	00003	EM							D	Y
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001

3RCS*FIS438B	LOOP 3 STOP VALVE		CS	00003	EM							D	Y
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001

3RCS*FIS448A	LOOP 4 STOP VALVE		CS	00003	EM							D	Y
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001

3RCS*FIS448B	LOOP 4 STOP VALVE		CS	00003	EM							D	Y
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WESTINGHOUSE

001

H - HEATER

3RCS*H1A	PRESS HTR BU GROUP A		CS	00054	EM							D	Y
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WESTINGHOUSE

001

3RCS*H1B	PRESS HTR BU GROUP B		CS	00054								D	Y
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WESTINGHOUSE

001

3RCS-HTR-1	HEATER		CS	00026	DM							D	
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001

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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM PCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT	LOCATION BLDG ELEV HTS RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST FREQ DIR	NAT FREQ F/B S/S	VERT SQ INS STATUS
3RCS-HTR-10	HEATER	001	CS 00026 DH				D
3RCS-HTR-11	HEATER	001	CS 00026 DH				D
3RCS-HTR-12	HEATER	001	CS 00026 DH				D
3RCS-HTR-13	HEATER	001	CS 00026 DH				D
3RCS-HTR-14	HEATER	001	CS 00026 DH				D
3RCS-HTR-15	HEATER	001	CS 00026 DH				D
3RCS-HTR-16	HEATER	001	CS 00026 DH				D

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV HTG RRS REF CODES	LOCATION ---	LOADS ----- SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH --	NAT FREQS ----	STATUS I
						ANLYS TEST TEST FREQ DIR	F/B S/S VERT	SQ INS
IRCS-HTR-17	HEATER	001	CS 00026 DM					D
IRCS-HTR-18	HEATER	001	CS 00026 DM					D
IRCS-HTR-19	HEATER	001	CS 00026 DM					D
IRCS-HTR-2	HEATER	001	CS 00026 DM					D
IRCS-HTR-20	HEATER	001	CS 00026 DM					D
IRCS-HTR-21	HEATER	001	CS 00026 DM					D
IRCS-HTR-22	HEATER	001	CS 00026 DM					D

REPORT NO. MS0011

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

SUBJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
NUMBER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: TONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQ	STATUS
	VENDOR	QUAL REPORT	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST	F/B	VERT SQ INS
	MANUFACTURER	SPEC	PPS REF	DYN. INPUT	FREQ DIR		
			CODES	(ZPA)			
IRCS-HTR-23	HEATER	001	CS 00026 TM				D Y
IRCS-HTR-24	HEATER	001	CS 00026 DM				D Y
IRCS-HTR-25	HEATER	001	CS 00026 DM				D
IRCS-HTR-26	HEATER	001	CS 00026 DM				D
IRCS-HTR-27	HEATER	001	CS 00026 DM				D
IRCS-HTR-28	HEATER	001	CS 00026 DM				D Y
IRCS-HTR-29	HEATER	001	CS 00026 DM				D Y

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REPORT NO. MS5QT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH -- ANLYS TEST TEST FREQ DIR	NAT FREQS ---- F/B S/S VERT	STATUS SQ INS

3RCS-HTR-3	HEATER		CS 00026 DM				D
		001					
3RCS-HTR-30	HEATER		CS 00026 DM				D
		001					
3RCS-HTR-31	HEATER		CS 00026 DM				D
		001					
3RCS-HTR-32	HEATER		CS 00026 DM				D
		001					
3RCS-HTR-33	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-34	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-35	HEATER		CS 00026 DM				D
		001					

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQS	STATUS
	VENDOR	QUAL REPORT	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
	VEND MODEL	SPEC	RRS REF	DYN. INPUT	FREQ DIR		
	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)			

3RCS-HTR-36	HEATER		CS 00026 DH				D
		001					
3RCS-HTR-37	HEATER		CS 00026 DH				D
		001					
3RCS-HTR-38	HEATER		CS 00026 DH				D Y
		001					
3RCS-HTR-39	HEATER		CS 00026 DH				D Y
		001					
3RCS-HTR-4	HEATER		CS 00026 DH				D
		001					
3RCS-HTR-40	HEATER		CS 00026 DH				D
		001					
3RCS-HTR-41	HEATER		CS 00026 DH				D
		001					

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

.....

3RCS-HTR-42	HEATER	001	CS 00026 DM	D
3RCS-HTR-43	HEATER	001	CS 00026 DM	D Y
3RCS-HTR-44	HEATER	001	CS 00026 DM	D Y
3RCS-HTR-45	HEATER	001	CS 00026 DM	D
3RCS-HTR-46	HEATER	001	CS 00026 DM	D
3RCS-HTR-47	HEATER	001	CS 00026 DM	D
3RCS-HTR-48	HEATER	001	CS 00026 DM	D

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	QUAL METH --	NAT FREQS ----	STATUS
3RCS-HTR-49	HEATER		CS 00026 DM					D Y
		001						
3RCS-HTR-5	HEATER		CS 00026 DM					D
		001						
3RCS-HTR-50	HEATER		CS 00026 DM					D Y
		001						
3RCS-HTR-51	HEATER		CS 00026 DM					D Y
		001						
3RCS-HTR-52	HEATER		CS 00026 DM					D Y
		001						
3RCS-HTR-53	HEATER		CS 00026 DM					D
		001						
3RCS-HTR-54	HEATER		CS 00026 DM					D
		001						

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH -- ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3RCS-HTR-55	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-56	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-57	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-58	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-59	HEATER		CS 00026 DM				D
		001					
3RCS-HTR-6	HEATER		CS 00026 DM				D
		001					
3RCS-HTR-60	HEATER		CS 00026 DM				D
		001					

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS

3RCS-HTR-61	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-62	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-63	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-64	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-65	HEATER		CS 00026 DM				D
		001					
3RCS-HTR-66	HEATER		CS 00026 DM				D
		001					
3RCS-HTR-67	HEATER		CS 00026 DM				D Y
		001					

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS						
	DESCRIPTION		BLDG	ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST		TEST	F/D	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT				RRS	REF	DYN.	INPUT								
	VEND MODEL	SPEC				CODES			(ZPA)								
	MANUFACTURER	MANUFAC MODEL															

3RCS-HTR-68	HEATER		CS	00026	DM												D Y
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001

3RCS-HTR-69	HEATER		CS	00026	DM												D Y
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001

3RCS-HTR-7	HEATER		CS	00026	DM												D
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001

3RCS-HTR-70	HEATER		CS	00026	DM												D Y
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001

3RCS-HTR-71	HEATER		CS	00026	DM												D
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001

3RCS-HTR-72	HEATER		CS	00026	DM												D
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001

3RCS-HTR-73	HEATER		CS	00026	DM												D Y
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001

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQS	STATUS
	VENDOR	QUAL REPORT	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
	VEND MODEL	SPEC	RRS REF	DYN. INPUT	FREQ DIR		
	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)			

3RCS-HTR-74	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-75	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-76	HEATER		CS 00026 DM				D Y
		001					
3RCS-HTR-77	HEATER		CS 00026 DM				D
		001					
3RCS-HTR-78	HEATER		CS 00026 DM				D
		001					
3RCS-HTR-8	HEATER		CS 00026 DM				D
		001					
3RCS-HTR-9	HEATER		CS 00026 DM				D
		001					

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS

3RCS-H1C	PRESS HTR CONT GROUP C		CS 00054 DM				D Y
	201		ASME III				
3RCS-H1D	PRESS HTR BU GROUP D		CS 00054 DM				D Y
	001						
3RCS-H1E	PRESS HTR BU GROUP E		CS 00054 DM				D Y
	001						
HCV - VALVE, CONTROL, HAND							
3RCS-HCV442A	REACTOR VESSEL VENT VV		CB -0024 DM				D
	001						
3RCS-HCV442B	REACTOR VESSEL VENT VV		CB -0024 DM				D
	001						
LI - INDICATOR, LEVEL							
3RCS-LI460A	PZR TK1		CB EM				D
	001						

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	EQUIPMENT ----- ----- EQUIPMENT ----- ----- LOCATION --- ----- LOADS ----- ----- QUAL METH -- ----- NAT FREQS ---- STATUS	
	DESCRIPTION	BLDG ELEV MTG SEIS OTHER REQ'D ANLYS TEST TEST F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF DYN. INPUT FREQ DIR
VEND MODEL	SPEC	CODES (ZPA)
MANUFACTURER	MANUFAC MODEL	

.....

3RCS*LI461 PZR TK1 CB EH D

LT - TRANSMITTER, LEVEL

3RCS=LT459 PRESSURIZER TRL CS 00003 EM Y N 2.1 S NA NA * 33+ A Y
WESTINGHOUSE M-001
001 IEEE 344

MV - VALVE, MOTOR OPERATED

[illegible]

3RCS#HV8001B	RX CLNT LOOP 2 HOT LEG STOP	CS 00028 DM	Y	Y	2.1	S	NA	NA	*	33+	A Y
	N-001										
	001	ASHE III									

3RCS*HV800IC	RX CLNT LOOP 3 HOT LEG STOP		CS	00029 DH	Y	Y	2.1	S	NA	NA	*	73+	A Y
	H-001												
	001			ASME III									

[illegible]

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLOG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT SQ INS	STATUS
3RCS*HV8002A	RX CLNT LOOP 1 COLD LEG STOP H-001 001		CS 00028 DM ASME III	Y Y 2.1	S NA NA *	33+	A Y
3RCS*HV8002B	RX CLNT LOOP 2 COLD LEG STOP H-001 001		CS 00028 DM ASME III	Y Y 2.1	S NA NA *	33+	A Y
3RCS*HV8002C	RX CLNT LOOP 3 COLD LEG STOP H-001 001		CS 00028 DM ASME III	Y Y 2.1	S NA NA *	33+	A Y
3RCS*HV8002D	RX CLNT LOOP 4 COLD LEG STOP H-001 001		CS 00028 DM ASME III	Y Y 2.1	S NA NA *	33+	A Y
3RCS*HV8003A	RX CLNT LOOP 1 BYP LEG STOP 001		CS 00034 DM ASME III				D Y
3RCS*HV8003B	RX CLNT LOOP 2 BYP LEG STOP 001		CS 00034 DM				D Y
3RCS*HV8003C	RX CLNT LOOP 3 BYP LEG STOP 001		CS 00034 DM				D Y

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS	
	DESCRIPTION	QUAL REPORT	BLOG ELEV	MTG	SEIS OTHER	REQ'D	ANLYS TEST	TEST	F/B	S/S		VERT
	VENDOR	SPEC			RRS REF	DYN.	INPUT					
	VEND MODEL	SPEC			CODES		(ZPA)					
	MANUFACTURER	MANUFAC MODEL										

3RCS*HV8003D	RX CLNT LOOP 4 BYP LEG STOP		CS	00034	DM							D Y
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001

3RCS*HV8098	REACTOR VESSEL TO EXCESS LTDN		CS	00010	DM							D Y
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WESTINGHOUSE

001

P - PUMP

3RCS*P1A	REACTOR COOLANT PUMP A		CS	00030	CF	Y	Y		S	NA	NA	*	33+	A Y
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WESTINGHOUSE

W-001

001

ASME III

3RCS*P1B	REACTOR COOLANT PUMP B		CS	00030	CF	Y	Y		S	NA	NA	*	33+	A Y
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WESTINGHOUSE

W-001

001

ASME III

3RCS*P1C	REACTOR COOLANT PUMP C		CS	00030	CF	Y	Y		S	NA	NA	*	33+	A Y
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WESTINGHOUSE

W-001

001

ASME III

3RCS*P1D	REACTOR COOLANT PUMP D		CS	00030	CF	Y	Y		S	NA	NA	*	33+	A
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WESTINGHOUSE

W-001

001

ASME III

PCV - VALVE, CONTROL, PRESSURE, SELF ACTUATED

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
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3RCS*PCV455A	PZR PRESS CONT WESTINGHOUSE	001	CS 00076 DM	*			D
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3RCS*PCV455B	PZR PRESS CONT WESTINGHOUSE	001	CS 00053 DM				D
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3RCS*PCV455C	PZR PRESS CONT WESTINGHOUSE	001	CS 00053 DM				D
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3RCS*PCV456	PZR POWER RELIEF WESTINGHOUSE GARRET SOLENOID & LS	001	CS 00075 DM				D
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PT - TRANSHITTER,PRESSURE

3RCS*PT405	WIDE RNG LOOP 1 HOT LEG WESTINGHOUSE 115360	D0300040 001	CS 00003 RM	Y N .33.20 N	HF MD 38 38 60	A Y
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3RCS*PT455	PZR PRESS CONT WESTINGHOUSE	W-001 001	CS 00003 EM	Y N 2.1 S	NA NA * 33+	A Y
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3RCS*PT456	PZR POWER RELIEF WESTINGHOUSE	W-001 001	CS 00003 EM	Y N 2.1 S	NA NA * 33+	A Y
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DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

[illegible][illegible]

RAK - RACK, STORAGE STAND

3RCS*RAKSTVA	PROCESS PROTECTION RACK WESTINGHOUSE	CB 00047 CF	D Y
	001 WESTINGHOUSE		
3RCS*RAKSTVB	PROCESS PROTECTION RACK WESTINGHOUSE	CB 00047 CF	D Y
	001 WESTINGHOUSE		

RV - VALVE, RELIEF

[illegible]

SG - STEAM GENERATOR

[illegible][illegible]

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN. INPUT	FREQ DIR	NAT FREQS	S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	(ZPA)				
VEND MODEL	SPEC	CODES					
MANUFACTURER	MANUFAC MODEL						

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3RCS*SGIC	STEAM GENERATOR		CS 00075 CF	Y	Y	S	NA	NA	*	33+	A Y
		H-001 001									

[illegible]

SV - VALVE; SOLENOID, (HESTINGHOUSE)

3RCS*SV8010A	PZR SAFETY VALVE		CS	00077	EM	Y	N	2.1	S	NA	NA	*	33+	D
		W-001												
		001						IEEE 344						

3RCS*SV8010B PZR SAFETY VALVE CS 00077 EM Y N 2.1 S NA NA * 33+ D

W-001
001 IFFF 344

3RCS*SV8010C PZR SAFETY VALVE CS 00077 EM Y N 2.1 S NA NA * 33+ D
W-001
001 IEEE 344

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3RCS*SV8095A    REAC VESSEL HEAP VENT ISOL V    CS 00056 EM    Y    N    2.1    S    NA    NA    *    33+    D Y
                  WESTINGHOUSE                N-001
                  001                        IEEE 344
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3RCS*SV8095B REAC VESSEL HEAP VENT ISOL V CS 00053 EM Y N 2.1 S NA NA * 33+ D Y
WESTINGHOUSE N-001
001 IEEE 344

MAG. REED SOLE. & LS

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

[illegible]

此項試驗係以普通之試驗法，將試驗液與試驗液混合，其結果如下：

3RCS*SV0096A REAC VESSEL HEAP VENT ISOL V CS 00056 EM Y N 2.1 S NA NA * 33+ D Y
NESTINGHOUSE N-001
001 IEEE 344
MAG. REED SOLE. & LS

3RCS*SV8096B REAC VESSEL HEAP VENT ISOL V CS 00053 EM Y N 2.1 S NA NA * 33+ D Y
WESTINGHOUSE M-001
001 IEEE 344
MAG. REED SOLE. & LS

TD - TEMPERATURE DAMPER

3RCS-TD/400	REACTOR HEAD VENT TO PRT	CS	DM	D
	001			

SRCS-TD/450	PRESSURIZER SURGE LINE TEMP	CS	DM	D
	001			

3RCS-TD/451	PRESSURIZER SPRAY LINE TEMP	CS	DM	D
	001			

3RCS-TD/452	PRESSURIZER SPRAY LINE TEMP	CS	DM	D
	001			

3RCS-TD/453 PRESSURIZER TEMP CS DM 001

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	NAT FREQS VERT SQ INS
VENDOR	QUAL REPORT	RFS REF	DYN. INPUT	FREQ DIR	
VEND MODEL	SPEC	CODCS	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

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3RCS-TD/468	PRESSURIZER RELIEF TANK	CS	DM	D
	001			

TE - TEMPERATURE ELEMENT, PRIMARY

3XCS*TE410A LOOP 1 HOT LEG CS 00021 EM D
WESTINGHOUSE EM
001 *

3RCS*TE410B LOOP 1 COLD LEG CS 00020 EM D
WESTINGHOUSE EM
001

3RCS*TE411A LOOP 1 HOT LEG CS 00021 EM D
WESTINGHOUSE EM
001

3RCS*TE411B LOOP 1 COLD LEG CS 00020 EM D
WESTINGHOUSE EM
001

3RCS*TE413B WIDE RANGE LP1 COLD LEG CS 00018 EM
WESTINGHOUSE EM
001

3RCS*TE420A LOOP 2 HOT LEG CS 00021 EM D
NESTINGHOUSE
001

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 30-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3RCS*TE420B	LOOP 2 COLD LEG WESTINGHOUSE	001	CS 00020 EM				D
3RCS*TE421A	LOOP 2 HOT LEG WESTINGHOUSE	001	CS 00021 EM				D
3RCS*TE421B	LOOP 2 COLD LEG WESTINGHOUSE	001	CS 00020 EM				D
3RCS*TE423B	WIDE RNG LOOP2 COLD LEG WESTINGHOUSE	001	CS 00018 EM				D
3RCS*TE430A	LOOP 3 HOT LEG WESTINGHOUSE	001	CS 00021 EM				D
3RCS*TE430B	LOOP3 COLD L WESTINGHOUSE	001	CS 00020 EM				D
3RCS*TE431A	LOOP 3 HOT LEG WESTINGHOUSE	001	CS 00021 EM				D

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS	
	DESCRIPTION		BLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST		
	VENDOR	QUAL REPORT	RRS REF	DYN.	INPUT	FREQ	DIR	F/B	S/S	VERT	SQ	INS
	VEND MODEL	SPEC	CODES		(ZPA)							
	MANUFACTURER	MANUFAC MODEL										

3RCS*TE431B	LOOP 3 COLD LEG WESTINGHOUSE		CS	00020	EH							D
		001										
3RCS*TE433B	WIDE RING LOOP 3 COLD LEG WESTINGHOUSE		CS	00018	EH							D
		001										
3RCS*TE440A	LOOP 4 HOT LEG WESTINGHOUSE		CS	00021	EH							D
		001										
3RCS*TE440B	LOOP 4 COLD LEG WESTINGHOUSE		CS	00020	EH							D
		001										
3RCS*TE441A	LOOP 4 HOT LEG WESTINGHOUSE		CS	00021	EH							D
		001										
3RCS*TE441B	LOOP 4 COLD LEG WESTINGHOUSE		CS	00020	EH							D
		001										
3RCS*TE443B	WIDE RANG LOOP 4 COLD LEG WESTINGHOUSE		CS	00018	EH							D
		001										

TK - TANK

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

RE RT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RCS - REACTOR COOLANT (PRI LOOP) - SYSTEM

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	LOADS	QUAL METH	NAT FREQS	STATUS
	VENDOR	QUAL REPORT	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
	VEND MODEL	SPEC	RRS REF	DYN. INPUT	FREQ DIR		
	MANUFACTURER	MANUFAC MODEL	CODES	(ZPA)			

3RCS*TK1	PRESSURIZER		CS 00024 CF	Y Y	S NA NA *	33+	A
	WESTINGHOUSE	H-001					
		001	ASME III				

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISHIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RHS - RESIDUAL HEAT REMOVAL-SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

SWEC EQUIPMENT

FCV - VALVE, CONTROL, FLOW, SELF ACTUATED

```
3RHS*FCV618      RES HX E1A BYP      ESB 00004 DH    Y    N    3G    S    NA    NA    33+    A    Y
                  6K143-03            NA
                  7620                IEEE 323,344,382
```

SRHS*FCV619	RES HX E1B BYP		ESB 00004 DM	Y	N	3G	S	NA	NA	33+	A Y
		8K143-04	NA								
	7620	185	ASME III,CL2								

HCV - VALVE, CONTROL, HAND

```
3RHS*HCV606      RES HX E1A FLOW CONT      ESB 00004 DH      Y      N      3G      S      NA      NA      33+      A      Y
                  0K143-01                  NA
                  7620                      185      ASME III,CL2
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3RHS*HCV607	RHS HX E1B FLOW CONT	ESB 00004 DM	Y	N	3G	S	NA	NA	33+	A Y
	6K143-02	NA								
7620	105	ASME III,CL2								

RV - VALVE,RELIEF

3RHS*RV37A	ISOL VLV THERMAL RELIEF	CS	00012 DM	Y	N	3G	S	SF	SD	33+	A Y
	407487-REV.5		NA								
LCT-14/54	186		ASME III,CL2								

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RHS - RESIDUAL HEAT REMOVAL-SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SELS OTHER REQ'D	A'NLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

[illegible]

3RHS*RV37B	ISOL VLV THERMAL RELIEF	CS	00012	DM	Y	N	3G	S	SF	SD	33+	A	Y
	407487-REV.5			NA									
	LCT-14/S4		186	ASME	III	CL2							

3RHS*RV8708A	RHR PHP SUCTION	CS 00012 DM	Y	N	3G	S	SF	SD	33+	A Y
		407487-REV.5	NA							
	DB-50L/S4	186	ASME III,CL2							

3RHS*RV8708B	RHR PHP SUCTION	CS 00012 DM	Y	N	3G	S	SF	SD	33+	A Y
		407487-REV.5	NA							
	DB-50L/S4	186	ASHE III,CL2							

MV - VALVE, MOTOR OPERATED

[illegible][illegible][illegible][illegible]

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RNS - RESIDUAL HEAT REMOVAL-SYSTEM

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR				RRS	REF	DYN.	INPUT		FREQ	DIR					
	VEND MODEL	SPEC			CODES			(ZPA)								
	MANUFACTURER	MANUFAC MODEL														

FT - TRANSMITTER, FLOW

3RHS*FT618	RES HX E1A BYP		ESB 00021	RH	Y	N	.24.12	N	MF	MD	50	47	50		A
	ROSEMOUNT	108025													
	1153DB	662													
	DIFF PRSSR TRANSMITR	1153DB5PC													

HV - VALVE, MOTOR OPERATED

3RHS*HV8701B	RHS INLET ISOL VALVE		ESB 00007	DM	Y	N	3G	S	NA	NA		33+		A	Y
	PACIFIC VALVE	FA-5594													
	G55509	676													
	LIMITORQUE/NAMCO 180	SB-1-40													
3RHS*HV8702A	RHS INLET ISOL VALVE		ESB 00007	DM	Y	N	3G	S	NA	NA		33+		A	Y
	PACIFIC VALVE	FA-5595													
	G55509	676													
	LIMITORQUE/NAMCO 180	SB-1-40													
3RHS*HV8716A	X-CONN ISOLATION		ESB 00021	DM	Y	N	3G	S	NA	NA		33+		A	Y
	PACIFIC VALVE	FA-5595													
	G55509	676													
	LIMITORQUE OPERATOR	SB-1-40													
3RHS*HV8716B	X-CONN ISOLATION		ESB 00021	DM	Y	N	3G	S	NA	NA		33+		A	Y
	PACIFIC VALVE	FA-5595													
	G55509	676													
	LIMITORQUE OPERATOR	SB-1-40													

NSSS EQUIPMENT

E - EXCHANGER, HEAT

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RHS - RESIDUAL HEAT REMOVAL-SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS						
	DESCRIPTION		BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST		TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT															
	VEND MODEL	SPEC															
	MANUFACTURER	MANUFAC MODEL															

3RHS*E1A	RESIDUAL HEAT REMOVAL HT EXCH	ESB 00036 CF	Y	N	1.5.75	S	NA	NA	*	33+	A	Y
	WESTINGHOUSE	M-001										
		001			ASME III							

3RHS*E1B	RESIDUAL HEAT REMOVAL HT EXCH	ESB 00036 CF	Y	N	1.5.75	S	NA	NA	*	33+	A	Y
	WESTINGHOUSE	M-001										
		001			ASME III							

3RHS*E2A	RHR PUMP SEAL COOLER	ESB 00004 CF									D	Y
	WESTINGHOUSE											
		001			*							

3RHS*E2B	RHR PUMP SEAL COOLER	ESB 00004 CF									D	
	WESTINGHOUSE											
		001										

FIS - SWITCH, INDICATING, FLOW

3RHS*FIS610	RHR PMP P1A MIN FLO RECIRC	ESB 00021 EM									D	Y
		001										

3RHS*FIS611	RHR PMP P1B MIN FLO RECIRC	ESB 00004 EM									D	Y
		001										

P - PUMP

REPORT NO. HSSQT1

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RHS - RESIDUAL HEAT REMOVAL-SYSTEM

[illegible][illegible]

3RHS#PIA	RESID.HT.REMOVAL PUMP A		ESB 00004 CF	Y	N	2.1	S	NA	NA	*	33+	A Y
	WESTINGHOUSE	H-001										
		001		ASHE III								

3PHS#P1B	RESID.HT.REMOVAL PUMP B	ESB 00004 CF	Y	N	2.1	S	NA	NA	*	33+	A Y
	WESTINGHOUSE	M-001									
		001									
					ASME III						

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SYSTEM RMS - RADIATION MONITORING - SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS						
	DESCRIPTION		BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	
	VENDOR	QUAL REPORT				RRS	REF	DYN.	INPUT		FREQ	DIR					
	VEND MODEL	SPEC				CODES			(ZPA)								
	MANUFACTURER	MANUFAC MODEL															

SHEC EQUIPMENT

RAK - RACK, STORAGE STAND

3RMS*RAK1A	IE CABINET #1 KAMAN SCIENCES 450638-001 KAMAN	CB 00047 CF Y N .40.15 K-84-50/K-84-46 624 KMA-1	NS(B)-017 REV 0B IEEE-323,344	40+	23.9	40+	B	Y
3RMS*RAK1B	IE CABINET #2 KAMAN SCIENCES 450638-002 KAMAN	CB 00047 CF Y N .40.15 K-84-50/K-84-46 624 KMA-1	NS(B)-017 REV 1B IEEE-323,344	40+	23.9	40+	B	Y

RE - RADIOACTIVITY ELEMENT, PRIMARY

3RMS*RE04	CONT HR INTERNAL KAMAN SCIENCES 952629-006 KAMAN	CS 00056 CM Y N .65.30 K-84-50/57654-1 624 KMA-HR	NS(B)-025 REV 1B IEEE-323,344					D	Y
3RMS*RE05	CONT HR INTERNAL KAMAN SCIENCES 952629-006 KAMAN	CS 00056 CM Y N .65.30 K-84-50/57654-1 624 KMA-HR	NS(B)-025 REV 1B IEEE-323,344					D	Y
3RMS*RE26	RHR CUBICLE A HIGH RANGE KAMAN SCIENCES 952629-009 KAMAN	ESB 00004 CM Y N .23.12 K-84-50/57654-1 624 KMA-100	NS(B)-010 REV 0B IEEE-323,344					D	

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ENGINEER: STONE & WEBSTER
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SYSTEM RMS - RADIATION MONITORING - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV HTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	F/B S/S VERT	NAT FREQS SQ INS	STATUS
3RMS*RE27	RHR CUBICLE B HIGH RANGE KAMAN SCIENCES 952629-009 KAMAN	K-84-50/57654-1 624 KMA-100	ESB 00004 CH	Y N	.23.12			D
					NS(B)-010 REV 0B IEEE-323,344			
3RMS*RE30	FUEL TRANSFER CANAL KAMAN SCIENCES 952629-009 KAMAN	K-84-50/57654-1 624 KMA-100	FB 00052 CH	Y N	.48.18			D
					NS(B)-074 REV 1B IEEE-323,344			
3RMS*RE39	PERS ACCESS HATCH KAMAN SCIENCES 952629-009 KAMAN	K-84-50/57654-1 624 KMA-100	AB 00024 CH	Y N	.32.18			D Y
					NS(B)-007 REV 0E IEEE-323,344			
3RMS*RE40	EQUIP ACCESS HATCH KAMAN SCIENCES 952629-009 KAMAN	K-84-50/57654-1 624 KMA-100	HRB 00052 CH	Y N	.50.15			D
					NS(T)-077 REV 0B IEEE 323,IEEE 344			
3RMS*RE41	FUEL DROP MONITOR KAMAN SCIENCES 952629-007 KAMAN	K-84-50/57654-1 624 KMA-HR	CS 00071 DM	Y N	.65.30			D Y
					NS(B)-025 REV 1B IEEE 323,IEEE 344			
3RMS*RE42	FUEL DROP MONITOR KAMAN SCIENCES 952629-007 KAMAN	K-84-50/57654-1 624 KMA-HR	CS 00071 DM	Y N	.65.30			D Y
					NS(B)-025 REV 1B IEEE 323,IEEE 344			
3RMS*RE43	AUX BLDG PENETRATION AREA KAMAN SCIENCES 952629-009 KAMAN	K-84-50/57654-1 624 KMA-100	AB 00004 CH	Y N	.27.16			D
					NS(B)-007 REV 0B IEEE 323,IEEE 344			

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NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RMS - RADIATION MONITORING - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3RMSwRE44	CONT PURGE PENET AREA KAHAN SCIENCES 952629-009 KAHAN	AB 00066 CH Y N .56.20 K-84-50/57654-1 624 KMA-100	NS(B)-007 REV 0B IEEE 323,IEEE 344				D
3RMSwRE45	RSS CUBICLE A KAHAN SCIENCES 952629-009 KAHAN	ESB -0010 CH Y N .20.12 K-84-50/57654-1 624 KMA-100	NS(B)-010 REV 0B IEEE 323,IEEE 344				D
3RMSwRE46	RSS CUBICLE B KAHAN SCIENCES 952629-009 KAHAN	ESB -0010 CH Y N .20.12 K-84-50/57654-1 624 KMA-100	NS(B)-010 REV 0B IEEE 323,IEEE 344				D
3RMSwRE47	TURBINE PP STM SUPPLY KAHAN SCIENCES 952629-009 KAHAN	ESB 00021 CH Y N .32.13 K-84-50/57654-1 624 KMA-100	NS(B)-010 REV 0B IEEE 323,IEEE 344				D
3RMSwRE48	HS FDWTR PENETRATION AREA KAHAN SCIENCES 952629-009 KAHAN	MSV 00049 CH Y N .48.16 K-84-50/57654-1 624 KMA-100	NS(B)-070 REV 0B IEEE 323,IEEE 344				D
3RMSwRE49	HS FDWTR PENETRATION AREA KAHAN SCIENCES 952629-009 KAHAN	MSV 00049 CH Y N .48.16 K-84-50/57654-1 624 KMA-100	NS(B)-070 REV 0B IEEE 323,IEEE 344				D
3RMSwRE50	RECOMBINER CUBICLE A KAHAN SCIENCES 952629-009 KAHAN	HRB 00024 CH Y N .23.13 K-84-50/57654-1 624 KMA-100	NS(T)-077 REV 0B IEEE 323,IEEE 344				D

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RMS - RADIATION MONITORING - SYSTEM

[illegible]

3RMS*RE51	RECOMBINER CUBICLE F KAHAN SCIENCES 952629-009 KAHAN	HRB 00024 CW Y N .23.13 K-84-50/57654-1 624 KMA-100	NS(T)-077 REV 0B IEEE 323,IEEE 344	D
3RMS*RE52	RECOMBINER CONTROL ROOM KAHAN SCIENCES 952629-009 KAHAN	HRB 00024 CW Y N .23.13 K-84-50/57654-1 624 KMA-100	NS(T)-077 REV 0B IEEE 323,IEEE 344	D
3RMS*RE53	RECOMBINER SAMPLE ROOM KAHAN SCIENCES 952629-009 KAHAN	HRB 00024 CW Y N .23.13 K-84-50/57654-1 624 KMA-100	NS(T)-077 REV 0B IEEE 323,IEEE 344	D
3RMS*RE54	HCC AREA A KAHAN SCIENCES 952629-009 KAHAN	MRC 00024 CW Y N .32.18 K-84-50/57654-1 624 KMA-100	NS(B)-007 REV 0B IEEE 323,IEEE 344	D
3RMS*RE55	HCC AREA B KAHAN SCIENCES 952629-009 KAHAN	MRC 00045 CW Y N .41.18 K-84-50/57654-1 624 KMA-100	NS(B)-007 REV 0B IEEE 323,IEEE 344	D
3RMS*RE56	HCC AREA C KAHAN SCIENCES 952629-009 KAHAN	MRC 00024 CW Y N .32.18 K-84-50/57654-1 624 KMA-100	NS(B)-007 REV 0B IEEE 323,IEEE 344	D

RIY - RADIATION INDICATING RELAY

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3RMS*RIY04      REMOTE MICROPROCESSOR      MRC 00024 CW   Y   N   .32.18 N   MF   MD   24.0 24.0 28.0 D Y
                  KAMAN SCIENCES             K-64-50/16683-8      NS(B)-007 REV 0B
                  KEM-S(450953-001)          624                IEEE 323,IEEE 344
                  KAMAN                       KHA-HR

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REPORT DATE 10/11/84

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NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RMS - RADIATION MONITORING - SYSTEM

[illegible][illegible]

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3RMS*RIY05      REMOTE MICROPROCESSOR      MRC 00024 CH   Y   N   .32.18 N   HF   MD   24.0 24.0 28.0  D Y
                  KAMAN SCIENCES      K-84-50/16683-8      NS(B)-007 REV 0B
                  KEM-S(450953-001)    624                IEEE 323,IEEE 344
                  KAMAN      KHA-HR
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3RMS*RIY26      REMOTE MICROPROCESSOR      ESB 00036 CH   Y   N   .40.14   N   MF   MD   24.0  24.0  28.0  D
                  KAMAN                      K-84-50/16683-8      NS(B)-010 REV 0B
                  KEN-S(450953-011)        624                  IEEE 323,IEEE 344
                  KAMAN                      KHA-100
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3RMS*RIY27      REMOTE MICROPROCESSOR      ESB 00036 CW   Y   N   .40.14 N   MF   MD   24.0 24.0 28.0 D
                 KAHAN                       K-84-50/16683-8      NS(B)-010 REV 0B
                 KEM-S(450953-011)          624                  IEEE 323,IEEE 344
                 KAHAN                       KMA-100

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[illegible][illegible]

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3RMS*RIY40      REMOTE MICROPROCESSOR      HRB 00024 CW   Y   N   .23.13   N   MF   MD   24.0  24.0  28.0  D
                 KAHAN                      K-84-50/16683-8      NS(T)-077 REV 0B
                 KEM-S(450953-011)         624                  IEEE 323,IEEE 344
                 KAHAN                      KHA-100
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3RMS*RIY41    REMOTE MICROPROCESSOR      MRC 00024 CN   Y   N   .32.18 N   HF MD   24.0 24.0 28.0 D Y
               KAHAN                      K-84-50/16683-B   NS(B)-007 REV 0B
               KEN-S(450953-001)          624                IEEE 323,IEEE 344
               KAHAN                      KHA-HR

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NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RMS - RADIATION MONITORING - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D	LOADS DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	SQ INC	STATUS
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
3RMS*RIY42	REMOTE MICROPROCESSOR KAMAN KEM-S(450953-001) KAMAN	MRC 00024 CH Y N .32.18 NS(B)-007 REV 0B IEEE 323, IEEE 344							
3RMS*RIY43	REMOTE MICROPROCESSOR KAMAN KEM-S(450953-011) KAMAN	AB 00043 CH Y N .41.18 NS(B)-007 REV 0B IEEE 323, IEEE 344							
3RMS*RIY44	REMOTE MICROPROCESSOR KAMAN KEM-S(450953-011) KAMAN	MRC 00043 CH Y N .41.18 NS(B)-007 REV 0B IEEE 323, IEEE 344							
3RMS*RIY45	REMOTE MICROPROCESSOR KAMAN KEM-S(450953-011) KAMAN	ESB 00036 CH Y N .40.14 NS(B)-010 REV 0B IEEE 323, IEEE 344							
3RMS*RIY46	REMOTE MICROPROCESSOR KAMAN KEM-S(450953-011) KAMAN	ESB 00036 CH Y N .40.14 NS(B)-010 REV 0B IEEE 323, IEEE 344							
3RMS*RIY47	REMOTE MICROPROCESSOR KAMAN KEM-S(450953-011) KAMAN	ESB 00036 CH Y N .40.14 NS(B)-010 REV 0B IEEE 323, IEEE 344							
3RMS*RIY48	REMOTE MICROPROCESSOR KAMAN KEM-S(450953-011) KAMAN	HSV 00024 CH Y N .25.13 NS(B)-070 REV 0B IEEE 323, IEEE 344							

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYS* RMS - RADIATION MONITORING - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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3RMS*RIY49      REMOTE MICROPROCESSOR          MSV 00024 CW   Y    N   .25.13 N    HF MD    24.0  24.0  28.0  D
                  KAMAN                          K-84-50/16683-8      NS(B)-070 REV 0B
                  KEH-S(450953-011)            624                      IEEE 323,IEEE 344
                  KAMAN                          KMA-100

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3RHS*RIY50      REMOTE MICROPROCESSOR      HRB 00024 CW   Y   N   .23.13 N   HF   MD   24.0 24.0 28.0 D
                 KAMAN                      K-84-50/16683-8      NS(T)-077 REV 0B
                 KEM-S(450953-011)          624                  IEEE 323,IEEE 344
                 KAMAN                      KHA-100

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3RMS*RIY51  REMOTE MICROPROCESSOR      HRB 00024 CH   Y   N   .23.13  N   MF   MD   24.0  24.0  28.0  D
              KAHAN                     K-84-50/16683-8      NS(T)-077 REV 0B
              KEH-S(450953-011)         624                  IEEE 323,IEEE 344
              KAHAN                     KMA-100
```

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3RHS*RIY52      REMOTE MICROPROCESSOR      HRB 00024 CW   Y   N   .23.13 N   MF   MD   24.0 24.0 28.0 D
                  KAHAN                      K-84-50/16683-8      NS(T)-077 REV 0B
                  KEH-S(450953-011)          624                  IEEE 323,IEEE 344
                  KAHAN                      KMA-100
```

3RMS*RIY53	REMOTE MICROPROCESSOR	HRB 00024 CW	Y	N	.23.13	N	MF	MD	24.0	24.0	28.0	D
	KAMAN	K-84-50/16683-8	NS(T)-077 REV 0B									
	KEH-S(450953-011)	624	IEEE 323, IEEE 344									
	KAMAN	KMA-100										

```

3RHS*RIY54      REMOTE MICROPROCESSOR      MRC 00045 CN   Y   N   .41.18 N   MF   MD   24.0 24.0 28.0 D
                  KAMAN                      K-84-50/16683-8      NS(B)-007 REV 0B
                  KEM-S(450953-011)          624                  IEEE 323,IEEE 344
                  KAMAN                      KHA-100

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```
3RMS*RIY55      REMOTE MICROPROCESSOR          MRC 00045 CN   Y    N .41.18 N    MF MD   24.0 24.0 28.0 D  
KAMAN           K-64-50/16683-8                NS(B)-007 REV 0B  
KEM-S(450953-011) 624                          IEEE 323;IEEE 344  
KAMAN           KMA-100
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RMS - RADIATION MONITORING - SYSTEM

[illegible]

与 本 局 有 关 的 其 他 事 项 均 由 本 局 统 一 管 理 和 协 调 处 理 。

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JRN$WRIY56      REMOTE MICROPROCESSOR          AB   00043 CH    Y    N   .41.18 N       MF MD     24.0 24.0 28.0 D
                  KAMAN                          K-84-50/16683-8        NS(B)-007 REV 0B
                  KEH-S(450953-011)             624                    IEEE 323,IEEE 344
                  KAMAN                          KMA-100

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NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RPS - REACTOR PROTECTION - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SNEC EQUIPMENT

JB - BOX, JUNCTION

```
3RPS*PNLESCA  DIESEL GENERATOR SEQUENCE PNL      CB 00047 PM   Y   N   .40.15 N   MF MD   12.6 5.9 40+   A Y
VITRO LABS      2404.01
                                     CF
                                     IEEE 344
VITRO LABS
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SRPS*PNLESCB DIESEL GENERATOR SEQUENCE PNL CB 00047 CF Y N .40.15 H MF MD 12.6 5.9 40+ A Y
VITRO LABS 2404.01 NS(B)-017 REV 1B
IEEE 344
VITRO LABS

JB - BOX, JUNCTION

3RPS*PNLAS	AUX SHUTDOWN PNL	CB	00004 CF	Y	N	.40.15 S	NA	NA	25+	25+	25+	A Y
	SYSTEMS CONTROL	16825-82N,REV 0				NS(B)-017 REV 1B						
3RPS*PNLAS		246				IEEE 344						

RAK - RACK, STORAGE STAND

3RPS*RAKOTXA		CB	00047 CF	Y	N	.40.15 S	NA	NA	25+	25+	25+	A Y
	SYSTEMS CONTROLS	16825-82N,REV 0		NS(B)-017 REV 1B								
3RPS*RAKOTXA		246		IEEE 344								

3RPS*RAKOTXB		CB	00047 CF	Y	N	.40.15 S	NA	NA	25+	25+	25+	A Y
	SYSTEMS CONTROLS	16825-82N,REV 0		NS(B)-017 REV 1B								
	3RPS*RAKOTXA	246		IEEE 344								

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RPS - REACTOR PROTECTION - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

NSSS EQUIPMENT

SNG - SWITCHGEAR

3RPS*SHG1	REACTOR TRIP SWITCHGEAR WESTINGHOUSE	001	AB 00045 DM		D Y
			*		
3RPS*SHG2	REACTOR TRIP SWITCHGEAR WESTINGHOUSE	001	AB 00045 DM		D Y

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT TO

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RSS - CONTAINMENT RECIRCULATION SPRAY - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	NAT FREQS	STATUS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SWEC EQUIPMENT

AAA - RESERVED

3RSS*SOV50A	SSP CNTMT RECIRC VV	ESB	DM	Y	N	3G	S	NA	NA	33+	A
	1041220-2	3040	NA								
			ASHE III,CL2								

3RSS*SOV50B	SSP CNTHT RECIRC VV	ESB	DM	Y	N	3G	S	NA	NA	33+	A
	1041220-2	3040	NA								
			ASME	III,CL3							

E - EXCHANGER, HEAT

3RSS*E1A	CONTN RECIRC COOLER	ESB 00036 CF	Y	Y	0.65G	S	SF	MD	33+	33+	33+	A	Y
	JOSEPH OAT	TM-332	NM(B)-010-REV 0B										
	J-2227-1A	020	ASHE III,CL2										

3RSS*E1B	CONTN RECIRC COOLER	ESB 00036 CF	Y	Y	0.65G	S	SF	MD	33+	33+	33+	A	Y
	JOSEPH OAT	TH-332	NM(B)-010-REV 0B										
	J-2227-1B	020	ASHE III,CL2										

3RSS*E1C	CONTN RECIRC COOLER	ESB 00036 CF	Y	Y	0.65G	S	SF	MD	33+	33+	33+	A	Y
	JOSEPH OAT	TH-332	NM(B)-010-REV 0B										
	J-2227-1C	020	ASME III,C1.2										

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NUSC SUPPLIER: WESTINGHOUSE

SYSTEM RSS - CONTAINMENT RECIRCULATION SPRAY - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	QUAL METH --	NAT FREQS ----	STATUS
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3RSS*E1D	CONTN RECIRC COOLER JOSEPH OAT J-2227-1D	TM-332 020	ESB 00036 CF Y Y	0.65G	S	SF MD	33+ 33+ 33+	A
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P - PUMP

3RSS*P1A	CONTNMT.RECIRC.PUMP BINGHAM-WILLAMETT CO 10X12X20 BC-VR WESTINGHOUSE	14210106-03 044 500 H.P.	ESB 00021 CW Y N	.40.30	S	NA NA	33+ 33+ 33+	A Y
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3RSS*P1B	CONTNMT.RECIRC.PUMP BINGHAM-WILLAMETTE 10X12X20 BC-VR WESTINGHOUSE	14210106-03 044 500 H.P.	ESB 00021 CW Y N	.40.30	S	NA NA	33+ 33+ 33+	A Y
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3RSS*P1C	CONTNMT.RECIRC.PUMP BINGHAM-WILLAMETTE 10X12X20 BC-VR WESTINGHOUSE	14210106-03 044 500 H.P.	ESB 00021 CW Y N	.40.30	S	NA NA	33+ 33+ 33+	A Y
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3RSS*P1D	CONTNMT.RECIRC.PUMP BINGHAM-WILLAMETTE 10X12X20 BC-VR WESTINGHOUSE	14210106-03 044 500 H.P.	ESB 00021 CW Y N	.40.30	S	NA NA	33+ 33+ 33+	A Y
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MOV - VALVE, MOTOR OPERATED

3RSS*MOV20A	CONT RECIRC WTR SPRAY HDR ISO HENRY PRAIT NHR II LIMITORQUE OPERATOR	D-0057-2 164 SHB-00-2	ESB 00015 DM Y N	3G	S	NA NA	33+	A Y
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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RSS - CONTAINMENT RECIRCULATION SPRAY - SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS		STATUS			
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B		S/S	VERT	SQ
3RSS#MOV20B	CONT RECIRC WTR SPRAY HDR ISO HENRY PRATT NMK II LIMITORQUE OPERATOR	D-0057-2 164 SMB-00-2	ESB 00015	DM	Y	N	3G	S	NA	NA	33+		A	Y	
3RSS#MOV20C	CONT RECIRC WTR SPRAY HDR ISO HENRY PRATT NMK II LIMITORQUE OPERATOR	D-0057-2 164 SMB-00-2	ESB 00015	DM	Y	N	3G	S	NA	NA	33+		A	Y	
3RSS#MOV20D	CONT RECIRC WTR SPRAY HDR ISO HENRY PRATT NMK II LIMITORQUE OPERATOR	D-0057-2 164 SMB-00-2	ESB 00015	DM	Y	N	3G	S	NA	NA	33+		A	Y	
3RSS#MOV23A	BUTTERFLY VALVE HENRY PRATT NMK II LIMITORQUE OPERATOR	D-0057-3 164 SMB-00-2	ESB 00044	DM	Y	N	3G	S	NA	NA	33+		A	Y	
3RSS#MOV23B	BUTTERFLY VALVE HENRY PRATT NMK II LIMITORQUE OPERATOR	D-0057-3 164 SMB-00-2	ESB 00040	DM	Y	N	3G	S	NA	NA	33+		A	Y	
3RSS#MOV23C	CONT RECIRC PHP SUCT ISOL HENRY PRATT NMK II LIMITORQUE OPERATOR	D-0057-3 164 SMB-00-2	ESB 00040	DM	Y	N	3G	S	NA	NA	33+		A	Y	
3RSS#MOV23D	CONT RECIRC PHP SUCT ISOL HENRY PRATT NMK II LIMITORQUE OPERATOR	D-0057-3 164 SMB-00-2	ESB 00040	DM	Y	N	3G	S	NA	NA	33+		A	Y	

LI - INDICATOR, LEVEL

REPORT NO. HSSQT1

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UTILITY NUSCO

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
HSSS SUPPLIER: WESTINGHOUSE

SYSTEM RSS - CONTAINMENT RECIRCULATION SPRAY - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	QUAL METH --	NAT FREQS ----	STATUS
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3RSS*LI22A	CONTAINMENT STRUCT SUMP	CB	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	C
	INT'L INST 1151VB	SQP-99X2087-A 245	NS(B)-017 REV 1B IEEE 344 & NUREG 0800										

3RSS*LI22B	CONTAINMENT STRUCT SUMP	CB	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	C
	INT'L INST 1151VB	SQP-99X2087-A 245	NS(B)-017 REV 1B IEEE 344 & NUREG 0800										

PI - INDICATOR,PRESSURE

3RSS*PI25A	CONT RECIRC PMP DISCHG	CB	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	C
	INT'L INST 1151VB	SQP-99X2087-A 245	NS(B)-017 REV 1B IEEE 344 & NUREG 0800										

3RSS*PI25B	CONT RECIRC PMP DISCHG	CB	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	C
	INT'L INST 1151VB	SQP-99X2087-A 245	NS(B)-017 REV 1B IEEE 344 & NUREG 0800										

3RSS*PI25C	CONT RECIRC PMP DISCHG	CB	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	C
	INT'L INST 1151VB	SQP-99X2087-A 245	NS(B)-017 REV 1B IEEE 344 & NUREG 0800										

3RSS*PI25D	CONT RECIRC PMP DISCHG	CB	CH	Y	N	.40.15	N	MF	MD	NA	NA	NA	C
	INT'L INST 1151VB	SQP-99X2087-A 245	NS(B)-017 REV 1B IEEE 344 & NUREG 0800										

FIS - SWITCH,INDICATING,FLON

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

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PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RSS - CONTAINMENT RECIRCULATION SPRAY - SYSTEM

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC	RRS REF			DYN.	INPUT									
	VEND MODEL	MANUFAC MODEL	CODES				(ZPA)									

3RSS*FIS38A	RSS RECIRC MINI FLOW		ESB 00036	RM	Y	N	.50.15	N	MF	MD				42	A	
	ITT BARTON	R3-580A-9					NS(B)-017 REV 1B									
	199/581A-1	377					IEEE-323,344									
	ITT BARTON	199/581A-1														

3RSS*FIS38B	RSS RECIRC MINI FLOW		ESB 00036	RM	Y	N	.32.13	N	MF	MD				42	A	
	ITT BARTON	R3-580A-9					NS(B)-010 REV 0B									
	199/581A-1	377					IEEE-323,344									
	ITT BARTON	199/581A-1														

LR - RECORDER, LEVEL

3RSS*LR22	CONTAINMENT STRUCT SUMP		CB	RM				N	MF	MD						A
	FOXBORO	Q0AAA14														
	N-226S-16	392					IEEE 344,323									
	ELECTRONIC RECORDERS	N-226S-16														

LY - RELAY, LEVEL, COMPUTING, SELECTING OR BOOSTER

3RSS*LY22	CONTAINMENT STRUCT SUMP		CB	RM				N	MF	MD	NA	NA	NA			D
	FOXBORO	Q0AAB18														
	N-2AX+DIO	392					IEEE 344,323									
	DISTRIBUTION MODULE	N-2AX+DIO														

3RSS*LY22A	CONTAINMENT STRUCT SUMP		CB	RM				N	MF	MD	NA	NA	NA			C
	FOXBORO	Q0AAB35														
	N-2AI-I2V	392					IEEE 344,323									
	I/E CONVERTER	N-2AI-I2V														

3RSS*LY22B	CONTAINMENT STRUCT SUMP		CB	RM				N	MF	MD	NA	NA	NA			C
	FOXBORO	Q0AAB35														
	N-2AI-I2V	392					IEEE 344,323									
	I/E CONVERTER	N-2AI-I2V														

- 7 - RELAY, COMPUTING, SELECTING OR BOOSTER, PRESSURE

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM RSS - CONTAINMENT RECIRCULATION SPRAY - SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	QUAL METH F/B	NAT FREQS S/S	VERT	STATUS SQ INS

3RSS*PY25A	CONT RECIRC PMP DISCH FOXBORO N-1AI-I2V I/E CONVERTER	QQAAB35 392 N-1AI-I2V	CB	RH		N	MF	MD	NA	NA	NA	D
				IEEE 344,323								
3RSS*PY25B	CONT RECIRC PMP DISCH FOXBORO N-1AI-I2V I/E CONVERTER	QQAAB35 392 N-1AI-I2V	CB	RH		N	MF	MD	NA	NA	NA	D
				IEEE 344,323								
3RSS*PY25C	CONT RECIRC PMP DISCH FOXBORO N-1AI-I2V I/E CONVERTER	QQAAB35 392 N-1AI-I2V	CB	RH		N	MF	MD	NA	NA	NA	D
				IEEE 344,323								
3RSS*PY25D	CONT RECIRC PMP DISCH FOXBORO N-1AI-I2V I/E CONVERTER	QQAAB35 392 N-1AI-I2V	CB	RH		N	MF	MD	NA	NA	NA	D
				IEEE 344,323								

PT - TRANSMITTER, PRESSURE

3RSS*PT25A	CNTMNT RECIRC PMP DISCH ROSEMOUNT 1153GB GUAGE PRSSR TRANSHTR	108025 662 1153GB7PC	ESB 00004	RH	Y	N	.20.12	N	MF	MD	50	47	50	A	Y
				NS(B)-010 REV B					IEEE-323,344						
3RSS*PT25B	CNTMNT RECIRC PMP DISCH ROSEMOUNT 1153GB GUAGE PRSSR TRANSHTR	108025 662 1153GB7PC	ESB 00004	RH	Y	N	.20.12	N	MF	MD	50	47	50	A	Y
				NS(B)-010 REV B					IEEE-323,344						
3RSS*PT25C	CNTMNT RECIRC PMP DISCH ROSEMOUNT 1153GB GUAGE P. CSR TRANSHTR	108025 662 1153GB7PC	ESB 00004	RH	Y	N	.20.12	N	MF	MD	50	47	50	A	Y
				NS(B)-010 REV B					IEEE-323,344						

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PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SCV - STA CONT BUS (VITAL)-AC SUPPLY INCL TFMR&TRANS SW

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SWEC EQUIPMENT

PNL - PANEL

JSCV*PNLR10	240/120V 1PH AC DIST PNL OR	CH Y N .25.15 N MF MD 11.5 15.5 A Y
G. E. CO	46368-1	NS(B)-017 REV 1B
CCB		IEEE 344
G. E. CO	120/240V AC	

PNL - PANEL

3SCV*PNLH2A	208/120V 3PH DIST PNL	CB 00004 CH Y N .25.15 N MF ND 11.5 15.5 A I
G.E.CO.	46368-1	NS(B)-017 REV 1B
CCB	263	IEEE 344
G.E.	120/208V AC	

3SCVWPNLH2B	208/120V 3PH DIST PNL	CB 00004 CH Y N .25.15 N MF MD 11.5 15.5 A I
G.E.CO.	46368-1	NS(B)-017 REV 1B
CCB	263	IEEE 344
G.E.	120/208V AC	

3SCV*PMLR1P	240/120V 1PH AC DIST PML PU	CB 00004 CH Y N .25.15 N MF MD 11.5 15.5 A Y
G.E.CO.	96368-1	NS(B)-017 REV 1B
CCB	263	IEEE 344
G.E.	120/240V AC	

3SCV*PNLR10		CB 00004 CW Y N .25.15 N MF MD 11.E 15.5 A Y
G.E.CO.	46368-1	NS(B)-017,REV 1B
CCB	263	IEEE-344
G.E.	120/240 V AC	

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SCV - STA CONT BUS (VITAL)-AC SUPPLY INCL TFMR&TRANS SM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3SCV*PNL10	240/120V 1PH AC DIST GEN ELECTRIC CCB	PNL OR 46368-1 263	CB 00047 F Y N	.40.15 N NS(B)-017 REV 1B IEEE 344	HF MD	11.5 15.5	A Y
3SCV*PNL1P	240/120V 1PH AC DIST G.E.CO. CCB G.E.	PNL PUR 46368-1 263 120/240V AC	CB 00047 CF Y N	.40.15 N NS(B)-017 REV 1B IEEE 344	HF MD	11.5 15.5	A Y
3SCV*PNL100	240/120V 1PH AC DIST G. E. CO CCB G. E. CO	PNL OR 46368-1 263 120/240V AC	ESB 00036 CH Y N	.27.16 N NS(B)-010 REV.0B IEEE 344	HF MD	11.5 15.5	A Y
3SCV*PNL10P	240/120V 1PH AC DIST G.F.CO. CCB G.E.	PNL PU 46368-1 263 120/240V AC	ESB 00036 CH Y N	.32.13 N NS(B)-010 REV.0B IEEE 344	HF MD	11.5 15.5	A Y
3SCV*PNL11P	240/120V 1PH AC DIST G.E.CO. CCB G.E.	PNL PUR 46368-1 263 120/240V AC	ESB 00036 CH Y N	.32.13 N NS(B)-010-RFV 0B IEEE 344	HF MD	11.5 15.5	A Y
3SCV*PNL240	240/120V 1PH AC DIST G. E. CO CCB G. E. CO	PNL OR 46368-1 263 120/240V AC	CSP 00014 CH Y N	.40.16 N NS(B)-044 REV 2B IEEE 344	HF MD	11.5 15.5	A Y
3SCV*PNL24P	240/120V 1PH AC DIST G. E. CO CCB G. E. CO	PNL PU 46368-1 263 120/240V AC	CSP 00014 CH Y N	.40.16 N NS(B)-044 REV 2B IEEE 344	HF MD	11.5 15.5	A Y

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SCV - STA CONT BUS (VITAL)-AC SUPPLY INCL TFHR&TRANS SW

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

JSCVwPNL25D	240/120 1PH AC DIST PNL OR	EGE 00024	CN	Y	N	.32.15	N	MF	MD	11.5	15.5	A	Y
	G. E. CO	46368-1				NS(B)-069 REV 0B							
	CCB	263				IEEE 344							
	G. E. CO	120/240V AC											
JSCVwPNL25P	240/120 1PH AC DIST PNL PUR	EGE 00024	CH	Y	N	.32.15	N	MF	MD	11.5	15.5	A	Y
	G. E. CO	46368-1				NS(B)-069 REV 0B							
	CCB	263				IEEE 344							
	G. E. CO	120/240V AC											
JSCVwPNL50	240/120V 1PH AC DIST PNL OR	HRC 00024	CF	Y	N	.27.16	N	MF	MD	11.5	15.5	A	I
	G. E. CO	46368-1				NS(B)-007 REV 0B							
	CCB	263				IEEE 344							
	G. E. CO	120/240V AC											
JSCVwPNL5P	240/120V 1PH AC DIST PNL PU	HRC 00024	CH	Y	N	.27.16	N	MF	MD	11.5	15.5	A	I
	G.E.CO.	46368-1				NS(B)-007 REV.0B							
	CCB	263				IEEE 344							
	G.E.	120/240V AC											
JSCVwPNL9D	240/120 1PH AC DIST PNL OR	HRC 00024	CH	Y	N	.27.16	N	MF	MD	11.5	15.5	A	Y
	GE	46368-1				NS(B)-007 REV.0B							
	CCB	263				IEEE 344							
	G. E. CO	120/240V AC											
JSCVwPNL9P	240/120 1PH AC DIST PNL PUR	HRC 00024	CH	Y	N	.27.16	N	MF	MD	11.5	15.5	A	Y
	G. E. CO	46368-1				NS(B)-007 REV.0B							
	CCB	263				IEEE 344							
	G. E. CO	120/240V AC											

X - TRANSFORMER

3SCV*XDH2A	AC DIST PHL XFMR-CONT	CB 00004 CH Y N .25.15 N MF MD 8 7 7 A Y
SQUARE D. CO.	44509-1	NS(B)-017 REV 1B
25KVA	678	IEEE-323,344
SQUARE D. CO.	25KVA 3D	

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SCV - STA CONT BUS (VITAL)-AC SUPPLY INCL TFMRTTRANS SW

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

SSCV*KDH2B	AC DIST PHL XFMR-CONT	CB 00004 CH Y N .25.15 N MF MD 8 7 7 A Y
	SQUARE D. CO.	A4509-1 NS(B)-017 REV 1B
	25KVA	IEEE-323,344
	SQUARE D. CO.	25KVA 30

XD - TRANSFORMER DISTRIBUTION

3SCVXD10	240/120V 1PH STEP-DOWN XFMR OR	CB 00004 CM Y N .25.15 N HF MD 8 7 7 A Y
SQUARE D CO	44509-1	NS(B)-017 REV 1B
15KVA	678	IEEE-323,344
SQUARE D CO	15 KVA	

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3SCV*XD1P      AC DIST PNL XFMR-CONT      CB 00004 CH  Y  N  .25.15 N  MF MD  8  7  7  A Y
                SQUARE D. CO.              44509-1      NS(B)-017 REV 1B
                15KVA                       678          IEEE-323,344
                SQUARE D. CO.              15KVA

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3SCV=XD100	AC DIST PNL XFMR-ESFB	ESB 00036 CH	Y	N	.32.13	N	HF	MD	8	7	7	A	Y
	SQUARE D CO	44509-1	NS(B)-007 REV 03										
	15KVA	678	IEEE-323,344										
	SQUARE D CO	15 KVA											

3SCVXD16P	240/120V 1PH STEP-DOWN XFMR PU	ESB 00036 CN	Y	N	.32.13 N	HF	MD	8	7	7	A Y
SQUARE D CO	44509-1	NS(B)-010 REV 0B									
15KVA	678	IEEE-323,344									
SQUARE D CO	15 KVA										

3SCVXD11P	AC DIST PNL XFHR-ESFB	ESB 00036 CH Y N .32.13 N HF MD 6 7 7 A Y
	SQUARE D. CO.	94509-1 NS(B)-010 REV OB
	15KVA	678 IEEE 323,344
	SQUARE D. CO.	15HVA

3SCVXD240	AC DIST PNL XFMR-CMPH	CSP 00014	CH	Y	N	.40.16	N	HF	MD	6	7	7	A	Y
	SQUARE D CO	44509-1	NS(B)-044 REV 2B											
	15KVA	678	IEEE 323,344											
	SQUARE D CO	15 KVA												

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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SCV - STA CONT BUS (VITAL)-AC SUPPLY INCL TFMR&TRANS SW

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D	LOADS DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	SQ INS
3SCV*XD24P	AC DIST PNL XFMR-CHPH SQUARE D. CO. 15KVA SQUARE D. CO.	44509-1 678 15KVA	CSP 00014 CH	Y N .40.16	N MF MD 8 7 7 A Y	NS(B)-044 REV 2B IEEE 323,344		
3SCV*XD250	AC DIST PNL XFMR-EGE 15KVA	44509-1 678	EGE 00024 CH	Y N .32.15	N HF MD 8 7 7 A Y	NS(B)-069 REV 0B IEEE 323,344		
3SCV*XD25P	AC DIST PNL XFMR-EGE SQUARE D. CO. 15KVA SQUARE D. CO.	44509-1 678 15KVA	EGE 00024 CH	Y N .32.15	N HF MD 8 7 7 A Y	NS(B)-069 REV 0B IEEE 323,344		
3SCV*XD50	240/120V 1PH STEP-DOWN XFMR OR SQUARE D CO 15KVA SQUARE D CO	44509-1 678 15 KVA	MRC 00024 CH	Y N .27.16	N HF MD 8 7 7 A Y	NS(B)-017 REV 1B IEEE-323,344		
3SCV*XD5P	AC DIST PNL XFMR-AUX SQUARE D CO 15KVA SQUARE D CO	44509-1 678 15 KVA	MRC 00024 CH	Y N .27.16	N HF MD 8 7 7 A Y	NS(B)-007 REV 0B IEEE-323,344		
3SCV*XD90	AC DIST PNL XFMR-AUX SQUARE D CO 15KVA SQUARE D CO	44509-1 678 15 KVA	MRC 00024 CH	Y N .27.16	N HF MD 8 7 7 A Y	NS(B)-007 REV 0B IEEE-323,344		
3SCV*XD9P	AC DIST PNL XFMR-AUX SQUARE D. CO. 15KVA SQUARE D. CO.	44509-1 678 15KVA	MRC 00043 CH	Y N .32.18	N HF MD 8 7 7 A Y	NS(B)-007 REV 0B IEEE-323,344		

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SFC - SPENT FUEL-FUEL POOL CLG & CLEANUP(INC. POOL&AUX)

EQUIPMENT ID	DESCRIPTION	VENDOR	VEND MODEL	MANUFACTURER	QUAL REPORT	SPEC	MANUFAC MODEL	BLDG ELEV	MTG	RRS REF	SEIS OTHER	REQ'D	DYN.	INPUT	ANLYS TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS

SHEC EQUIPMENT

E - EXCHANGER, HEAT

3SFC-E1A	FUEL POOL COOLER	WHITLOCK	1-V1-1 SIZE33A288	TR-75-22 REV 1	005	FB 00037 CF	Y	Y	.30.15	S	NA	NA	26.6	26.6	A	Y
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3SFC-E1B	FUEL POOL COOLER	WHITLOCK	1-V1-1 SIZE33A288	TR-75-22 REV 1	005	FB 00037 CF	Y	Y	.30.15	S	NA	NA	26.6	26.6	A	Y
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P - PUMP

3SFC-P1A	FUEL POOL COOLING PUMP	GOULDS PUMPS	3405 SIZE 10X12-12	ME-261	006	FB 00024 CF	Y	Y	.22.15	S	NA	NA	33+	33+	33+	A	Y
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3SFC-P1B	FUEL POOL COOLING PUMP	GOULDS PUMPS	3405 SIZE 10X12-12	ME-261	006	FB 00024 CF	Y	Y	.22.15	S	NA	NA	33+	33+	33+	A	Y
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RV - VALVE, RELIEF

3SFC-RV52A	FUEL POOL COOLER OUTLET	LCT-14	407467-REV.5	186	FB 00048 DM	Y	N	3G	S	SF	SD	33+	A	Y
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UTILITY MUSCO

DOCKET NO. 50-423

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SFC - SPENT FUEL-FUEL POOL CLG & CLEANUP(INC. POOL&AUX)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT ----- QUAL REPORT SPEC MANUFAC MODEL	LOCATION --- BLDG ELEV MTG RRS REF CODES	LOADS ----- SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH -- ANLYS TEST TEST FREQ DIR	NAT FREQS ---- F/B S/S VERT	STATUS SQ INS
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3SFC*RV52B	FUEL POOL COOLER OUTLET	FB 00048	DM Y N 3G S SF SD	33+	A Y
	LCT-14	407487-REV.5 166	NA ASME III,CL3		

TI - INDICATOR,TEMPERATURE

3SFC*TI27A	FUEL POOL WATER	CB	CH Y N .40.15 N MF MD NA NA NA C
	INT'L INST 1151VB	SQP-99X2087-A 245	NS(B)-017 REV 1B IEEE 344 & NUREG 0600

3SFC*TI27B	FUEL POOL WATER	CB	CH Y N .40.15 N MF MD NA NA NA C
	INT'L INST 1151VB	SQP-99X2087-A 245	NS(B)-017 REV 1B IEEE 344 & NUREG 0600

TY - RELAY,COMPUTING,SELECTING OR BOOSTER,TEMPERATURE

3SFC*TY27A	FUEL POOL WATER	CB	RM Y N N MF MD NA NA NA A
	FOXBORO	QOAB29	NS(B)-017 REV 1B
	N-2AI-P2V	392	IEEE 344,323
	R/E CONVERTER	N-2AI-P2V	
3SFC*TY27B	FUEL POOL WATER	CB	RM Y N N MF MD NA NA NA A
	FOXBORO	QOAB29	NS(B)-017 REV 1B
	N-2AI-P2V	392	IEEE 344,323
	R/E CONVERTER	N-2AI-P2V	

LS - SWITCH,LEVEL

3SFC*LS25A	FUEL POOL WATER	FB 00024	RM Y N .31.15 N SF SD 40+ 40+ 40+ A Y
	AUTOMATIC SWITCH CO	AGR-10183 R.O	NS(B)-074 REV 1B
	SB21AKR/TA20A32RX	626	IEEE 323-1974&IEEE 344-1975
	ASCO PRESSURE SWITCH	SB21AKR/TA20A32RX	

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PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSOS SUPPLIER: WESTINGHOUSE

SYSTEM SFC - SPENT FUEL-FUEL POOL CLG & CLEANUP(INC. POOL&AUX)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

35FC*LS25B FUEL POOL WATER FB 00024 RM Y M .31.15 N SF SD 40+ 40+ 40+ A Y
AUTOMATIC SWITCH CO AQR-10183 R.O NS(B)-074 REV 1B
SB21AKR/TA20A32RX 626 IEEE 323-1974&IEEE 344-1975
ASCO PRESSURE SWITCH SB21AKR/TA20A32RX

TE - TEMPERATURE ELEMENT, PRIMARY

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SSFC=TE27A      FUEL POOL WATER          FB 00047 CH   Y    N    .31.15 N    MF MD            33+           A Y
NEED INSTRUMENT CO  3035-00125-14         NS(B)-017,REV 1B
0285-00125-008     683                    IEEE 323,344
NEED RTD           611
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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SGF - STEAM GENERATOR-CHEMICAL FEED

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		MAT FREQS		STATUS						
	DESCRIPTION		BLOG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	
	VENDOR	QUAL REPORT															
	VEND MODEL	SPEC															
	MANUFACTURER	MANUFAC MODEL															

SHEC EQUIPMENT

AOV - VALVE, AIR OPERATED

3SGF*AOV24A	SG CHEM FEED PMP ISOLATION FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 185 EA 180	MSV	DM	Y	N	3G	S	NA	NA	33+	A	Y
3SGF*AOV24B	SG CHEM FEED PMP ISOLATION FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 185 EA 180	MSV	DM	Y	N	3G	S	NA	NA	33+	A	Y
3SGF*AOV24C	SG CHEM FEED PMP ISOLATION FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 185 EA 180	MSV	DM	Y	N	3G	S	NA	NA	33+	A	Y
3SGF*AOV24D	SG CHEM FEED PMP ISOLATION FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 185 EA 180	MSV	DM	Y	N	3G	S	NA	NA	33+	A	Y

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SIH - SAFETY INJECTION - HIGH PRESSURE

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS		
	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER REQ'D	ANLYS TEST	TEST	F/B	S/S		VERT	SQ
	VENDOR	SPEC			RRS REF	DYN. INPUT							
	VEND MODEL	SPEC			CODES	(ZPA)							
	MANUFACTURER	MANUFAC MODEL											

SHEC EQUIPMENT

MV - VALVE, MOTOR OPERATED

3SIH#MV8801A	BORON INJ TANK DISCH ISOL WALNORTH D-51745-3 LIMITORQUE OPERATOR	ADSR-10 153 SMB-0-40	AB	00004	DM	Y	N	3G	S	NA	NA	33+	A	Y
3SIH#MV8801B	BORON INJ TANK DISCH ISOL WALNORTH D-51745-3 LIMITORQUE OPERATOR	ADSR-10 153 SMB-0-40	AB	00004	DM	Y	N	3G	S	NA	NA	33+	A	Y
3SIH#MV8802A	SIP TO HOT LEGS WALNORTH D-51745-2 LIMITORQUE OPERATOR	ADSR-10 153 SMB-0-40	ESB	00021	DM	Y	N	3G	S	NA	NA	33+	A	Y
3SIH#MV8802B	SIP TO HOT LEGS WALNORTH D-51745-2 LIMITORQUE OPERATOR	ADSR-10 153 SMB-0-40	ESB	00021	DM	Y	N	3G	S	NA	NA	33+	A	Y
3SIH#MV8806	REFUELING WTR STOR TK TO SIP WALNORTH D-51740-2 LIMITORQUE/NAMCO 173	ADSR-6 153 SB-0-25	ESB	00013	DM	Y	N	3G	S	NA	NA	33+	A	Y
3SIH#MV8807A	SUCT HDR CROSS CONN WALNORTH D-51734 LIMITORQUE OPERATOR	ADSR-4 153 SMB-00-5	ESB	00024	DM	Y	N	3G	S	NA	NA	33+	A	Y

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SIH - SAFETY INJECTION - HIGH PRESSURE

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS			STATUS		
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S		VERT	SQ
3SIH#HV8807B	SUCT HDR CROSS CONN HALNORTH D-51736 LIMITORQUE OPERATOR	ADSR-4 153 SMB-00-5	ESB 00024	DM	Y	N	3G	S	NA	NA		33+		A	Y
3SIH#HV8821A	SIP X-CONN HALNORTH D-51743-3 LIMITORQUE OPERATOR	ADSR-3 153 SMB-0-40	ESB 00021	DM	Y	N	3G	S	NA	NA		33+		A	Y
3SIH#HV8821B	SIP X-CONN HALNORTH D-51743-3 LIMITORQUE OPERATOR	ADSR-3 153 SMB-0-40	ESB 00021	DM	Y	N	3G	S	NA	NA		33+		A	Y
3SIH#HV8835	SIP TO COLD LEGS HALNORTH D-51745-3 LIMITORQUE OPERATOR	ADSR-10 153 SMB-0-40	ESB 21	DM	Y	N	3G	S	NA	NA		33+		A	Y
3SIH#HV8923A	SAFETY INJ PUMP SUCTION HALNORTH D-51736 LIMITORQUE OPERATOR	ADSR-4 153 SMB-00-10	ESB 00024	DM	Y	N	3G	S	NA	NA		33+		A	Y
3SIH#HV8923B	SFTY INJ PMP SUCTION HALNORTH D-51745-3 LIMITORQUE OPERATOR	ADSR-10 153 SMB-00-10	ESB 00024	DM	Y	N	3G	S	NA	NA		33+		A	Y
3SIH#HV8924	SI CHG SUCT X-CONN HALNORTH D-51736 LIMITORQUE OPERATOR	ADSR-4 153 SMB-00-5	ESB 00024	DM	Y	N	3G	S	NA	NA		33+		A	Y

AV - VALVE, ANALYZER; VALVE, AIR OPERATED, (WESTINGHOUSE)

REPORT NO. MSSQRTI

PLANT NAME WILLSTONE UNIT 3
UTILITY MJSO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/04

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SIH - SAFETY INJECTION - HIGH PRESSURE

EQUIPMENT ID	DESCRIPTION	EQUIPMENT	LOCATION	BLDG ELEV	HTG	SEIS OTHER	REQ'D	ANLYS	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT	RSR REF	DYN.	INSUT	FREQ	DIR							
	MANUFACTURER	SPEC	COOES	(ZPA)										
	MANUFAC MODEL													
JSIH*AV6862	CRG PNP TEST LINE ISOL	FQP-22-1B	CS 00008	DM Y	N 3G	S	NA	NA	33+				A	Y
	667NS-DBQNS	185	NA	ASME III,CL2										
JSIH*AV6869A	SIP HOT LEG TEST LINE	FQP-22-1B	CS 00018	DM Y	N 3G	S	NA	NA	33+				A	Y
	667NS-DBQNS	185	NA	ASME III,CL2										
JSIH*AV6869C	SIP HOT LEG TEST LINE	FQP-22-1B	CS 00018	DM Y	N 3G	S	NA	NA	33+				A	Y
	667NS-DBQNS	185	NA	ASME III,CL2										
JSIH*CV6823	SIP COLD LEG TEST LINE	FQP-22-6	CS 00018	DM Y	N 3G	S	NA	NA	33+				A	Y
	FISHER	185	NA	ASME III,CL2										
	667NS-DBQNS	185												
	NAMCO LIMIT SWITCH	EA 180												
JSIH*CV6824	SIP HOT LEG TEST LINE	FQP-22-6	CS 00018	DM Y	N 3G	S	NA	NA	33+				A	Y
	FISHER	185	NA	ASME III,CL2										
	667NS-DBQNS	185												
	NAMCO LIMIT SWITCH	EA 180												
JSIH*CV6843	CRG PNP TEST LINE ISOL	FQP-22-6	CS 00008	DM Y	N 3G	S	NA	NA	33+				A	Y
	FISHER	185	NA	ASME III,CL2										
	667NS-DBQNS	185												
	NAMCO LIMIT SWITCH	EA 180												
JSIH*CV6871	TEST LINE HEADER	FQP-22-6	CS 00020	DM Y	N 3G	S	NA	NA	33+				A	Y
	FISHER	185	NA	ASME III,CL2										
	667NS-DBQNS	185												
	NAMCO LIMIT SWITCH	EA 180												

CV - VALVE, CONTAINMENT ISOLATION, (WESTINGHOUSE)

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SIH - SAFETY INJECTION - HIGH PRESSURE

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
				CODES	DYN.	INPUT	(ZPA)		FREQ	DIR					
ISIHCVC8881	SIP HOT LEG TEST LINE FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 105 EA 100	CS 00097	DM NA ASME III,CL2	Y	N	3G	S	NA	NA		33+		A	Y
ISIHCV8888	ACCUMULATOR FILL LINE FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 105 EA 100	AB 00004	DM NA ASME III,CL2	Y	N	3G	S	NA	NA		33+		A	Y
ISIHCV8964	TEST LINE HEADER FISHER 667NS-DBQNS NAMCO LIMIT SWITCH	FQP-22-6 105 EA 100	AB 00017	DM NA ASME III,CL2	Y	N	3G	S	NA	NA		33+		A	Y
RV	- VALVE,RELIEF														
ISIHVR8851	SIP TO COLD LEGS LCT-11/54	407487-REV.5 106	ESB 00031	DM NA ASME III,CL2	Y	N	3G	S	SF	SD		33+		A	Y
ISIHVR8853A	SAFETY INJECTION PUMP DISCH LCT-11/54	407487-REV.5 106	ESB 00033	DM NA ASME III,CL2	Y	N	3G	S	SF	SD		33+		A	Y
ISIHVR8853B	SAFETY INJECTION PUMP DISCH LCT-11/54	407487-REV.5 106	ESB 00033	DM NA ASME III,CL2	Y	N	3G	S	SF	SD		33+		A	Y
ISIHVR8858	SAFETY INJ PUMP SUCTION HDR LCT-20/54	407487-REV.5 106	ESB 00018	DM NA ASME III,CL2	Y	N	3G	S	SF	SD		33+		A	Y

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PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SIH - SAFETY INJECTION - HIGH PRESSURE

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RPS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC CODE					

MV - VALVE, MOTOR OPERATED

JSHHMHV8814	SIS PMP MINIFLOW ISOL	ESB 00021 DM Y N 3G S NA NA	33+	A Y
	YARNAY CORPORATION 1030-2	NA		
	5515B-F316M 655	ASME III,CL2		
	LINITORQUE OPERATOR SHB-00-5			

35IH#MV8920	SIS PHP MINIFLOW ISOL	ESB 00021 DM	Y	N	3G	S	NA	NA	33+	A Y
	YARWAY CORPORATION 1030-2	NA								
	5515B-F316H 655	ASME III,CL2								
	LIMITORQUE OPERATOR SNB-00-5									

MV - VALVE, MOTOR OPERATED

3SIR*HV8813	SIS PMP MINIFLOW ISOL	ESB 00015 DM	Y	N	3G	S	NA	NA	33+	A Y
	PACIFIC VALVE	FA-5589		NA						
	55515G	676		ASME III,CL2						
	LIMITORQUE OPERATOR	SB-00-10								

NSSS EQUIPMENT

E -- EXCHANGER, HEAT

3SIH*E2A SAFETY INS PUMP LUB OIL COOLER ESB 00024 * D Y
001

35IH*E2B SAFETY INS PUMP LUB OIL COOLER ESB 00024 DM 0 Y
001

REPORT NO. H²SQT1PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SIH - SAFETY INJECTION - HIGH PRESSURE

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR															
	VEND MODEL	SPEC														
	MANUFACTURER	MANUFAC MODEL														

FT - TRANSMITTER, FLOW

3SIH*FT916	SFTY INJ PMP P1A DISCH		ESB 00021	EM												D
	WESTINGHOUSE	001														

3SIH*FT922	SFTY INJ PMP P1B DISCH		ESB 00004	EM												D
	WESTINGHOUSE	001														

P - PUMP

3SIH*P1A	SAFETY INJECTION PUMP		ESB 00021	CF	Y	N	2.1	S	NA	NA	*	33+		A	Y
	M-001														
	001														

3SIH*P1B	SAFETY INJECTION PUMP		ESB 00021	F	Y	N	2.1	S	NA	NA	*	33+		A	Y
	M-001														
	001														

ASME III

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, QC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SIL - SAFETY INJECTION - LOW PRESSURE

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN. INPUT	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR			
VEND MODEL	SPEC	CODES	(ZPA)				
MANUFACTURER	MANUFAC MODEL						

SNEC EQUIPMENT

MS - VALVE, MOTOR OPERATED

3SIL*HV8809A	GATE VALVE WALNORTH A-9558-M-178D LIMITORQUE OPERATOR	349 153 SB-3-15	ESB 00008 DM Y N 3G S NA NA	33+	A I
3SIL*HV8809B	GATE VALVE WALNORTH A-9558-M-178D LIMITORQUE OPERATOR	349 153 SB-3-15	ESB 00012 DM Y N 3G S NA NA	33+	A Y
3SIL*HV8840	GATE VALVE WALNORTH A-9557-M-226 LIMITORQUE OPERATOR	348 153 SB-2-80	ESB 00012 DM Y N 3G S NA NA	33+	A Y

SV - VALVE; SOLENOID, (WESTINGHOUSE)

3SIL*SV8825	SIP HOT LEG TEST LINE FISHER	AQR-67368 185	CS 00018 EM Y N 3G N SF SD	35+	A Y
	ASCO SOLENOID	NPK 8320	IEEE 325,344,382		
3SIL*SV8880	ACCUM NITROGEN LINE ISOL FISHER	AQR-67368 185	AB 00004 EM Y N 3G N SF SD	35+	A Y
	ASCO SOLENOID	NPK 8320	IEEE 325,344,382		

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SIL - SAFETY INJECTION - LOW PRESSURE

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS		STATUS			
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
3SIL*SV8890A	RHR TO COLD LEG TEST FISHER	LINE AQR-67368 185 NPK 8320	CS	00013	EM	Y	N	3G	N	SF	SD	35+	A	Y	
	ASC0 SOLENOID														
3SIL*SV8890B	RHR TO COLD LEG TEST FISHER	LINE AQR-67368 185 NPK 8320	CS	00007	EM	Y	N	3G	N	SF	SD	35+	A	Y	
	ASC0 SOLENOID														
3SIL*SV8968	FISHER	AQR-67368 185 NPK 8320	CS		EM	Y	N	3G	N	SF	SD	35+	A		
	ASC0 SOLENOID														

RV - VALVE, RELIEF

3SIL*RV8842	RHR TO HOT LEG LCT-20/S4	407487-REV.5 186	ESB	00015	DM	Y	N	3G	S	SF	SD	33+	A	Y	
3SIL*RV8855A	ACCUMULATOR TANK LCT-500/S4	407487-REV.5 186	CS	00003	DM	Y	N	3G	S	SF	SD	33+	A	Y	
3SIL*RV8855B	ACCUMULATOR TANK DO-500/S4	407487-REV.5 186	CS	00003	DM	Y	N	3G	S	SF	SD	33+	A		
3SIL*RV8855C	ACCUMULATOR TANK DO-500/S4	407487-REV.5 186	CS	00003	DM	Y	N	3G	S	SF	SD	33+	A		

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REPORT DATE 10/11/84

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NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SIL - SAFETY INJECTION - LOW PRESSURE

[illegible]

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3SILRV8055D ACCUMULATOR TANK CS 00003 DM Y N 3G S SF SD 33+ A
 407497-REV.5 NA
DO-50D/S4 186 ASME III,CL2

35IL*RV8C56A RHR TO COLD LEGS ESB 00015 DH Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-20/54 186 ASHE III,CL2

JSIL*RV8856B RHR TO COLD LEGS ESB 00016 DM Y N 3G S SF SD 33+ A Y
407487-REV.5 NA
LCT-20/S4 186 ASHE III,CL2

MV - VALVE, MOTOR OPERATED

35IL#HV8808A	GATE VALVE		CS -0018 DM	Y	N	ZG	S	NA	NA	45	A Y
	WESTINGHOUSE	N-SR008-2		NA							
	12GH88 SNH	468		ASME III,CL2							
	LIMITORQUE OPERATOR	SBF-3									

3SIL#HV8808B	GATE VALVE		CS -0018 DM Y N 3G S NA NA	45	A Y
	WESTINGHOUSE	N-SR008-2	NA		
	12GH99 SNH	468	ASME III,CL2		
	LIMITORQUE OPERATOR	SBD-3			

35IL*HV8608C	GATE VALVE		CS -0018 DM	Y	N	3G	S	NA	NA	45	A Y
	WESTINGHOUSE	N-5R008-2		NA							
	12GM08 SNH	468		ASHE III,CL2							
	LINITORQUE OPERATOR	SBD-3									

3SIL#HV8808D	GATE VALVE		CS -0018 DM Y N 3G S NA NA	45	A Y
	WESTINGHOUSE	N-SR008-2	NA		
	12GH88 SNH	469	ASME III,C,L2		
	LIMITORQUE OPERATOR	SBD-3			

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BY SYSTEM, SUPPLIER, SPEC, EOC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SIL - SAFETY INJECTION - LOW PRESSURE

EQUIPMENT ID	DESCRIPTION	BLDG ELEV	MTG	SEIS	OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN.	INPUT	FREQ DIR			
VEND MODEL	SPEC	CODES	(ZPA)					
MANUFACTURER	MANUFAC MODEL							

NW - VALVE, MOTOR OPERATED

3SIL*HV8804A	RHR PMP1A TO CHG PMP PACIFIC VALVE FA-5590 G55509-7 676 LIMITORQUE/NAMCO 170 SB-0-15	ESB 00008 DM Y N 3G S NA NA 33+ A Y
3SIL*HV8804B	GATE PACIFIC VALVE FA-5590 G55509-7 676 LIMITORQUE/NAMCO 170 SB-0-15	ESB 00013 DM Y N 3G S NA NA 33+ A Y
3SIL*HV8812A	GATE VALVE PACIFIC VALVE FA-5594 G55509 676 LIMITORQUE/NAMCO 180 SHB-0-25	ESB 00012 DM Y N 3G S NA NA 33+ A Y
3SIL*HV8812B	GATE VALVE PACIFIC VALVE FA-5590 G55509 676 LIMITORQUE/NAMCO 170 SHB-0-25	ESB 00012 DM Y N 3G S NA NA 33+ A Y

NSSS EQUIPMENT

TK - TANK

3SIL*TKIA	SAFETY INJECTION ACCUM TK	CS	00024 CF	Y	N	1.0	S	NA	NA	*	33+	A Y
	WESTINGHOUSE		W-001									
			001									
				ASME III								

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
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REPORT DATE 10/11/84

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SIL - SAFETY INJECTION - LOW PRESSURE

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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SIL#TK1B	SAFETY INJECTION ACCUM TK	CS -0024 CF	Y	N	1.0	S	NA	NA	*	33+	A Y
	WESTINGHOUSE	M-001									
		001									
			ASME III								

3SIL*TK1C	SAFETY INJECTION ACCUM TK	CS -0024 CF Y N 1.0 S NA NA *	33+	A Y
	WESTINGHOUSE M-001			
	001	ASME III		

35IL*TKID	SAFETY INJECTION ACCUM TK	CS -0024 CF	Y	N	1.0	S	NA	NA	*	33+	A Y
	WESTINGHOUSE	H-001									
		001									
			ASME III								

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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REPORT DATE 10/11/84

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SSP - POST ACCIDENT SAMPLING SYSTEM

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS		
	DESCRIPTION		BLDG ELEV	HTG	SEIS	OTHER REQ'D	ANLYS TEST	TEST	F/B	S/S		VERT	SQ
	VENDOR	QUAL REPORT			RRS REF	DYN. INPUT							
	VEND MODEL	SPEC			CODES	(ZPA)							
	MANUFACTURER	MANUFAC MODEL											

SKEC EQUIPMENT

PNL - PANEL

3SSP*PNL3	POST ACCIDENT SAMPLING PANEL	ESB	CF	Y	N	.18.12						D	Y
			NS(T)-077,REV 0B										
			IEEE 344										

AAA - RESERVED

3SSP*SOV25A	CNTMT RECIRC ISOL VV	ESB	DM	Y	N	3G	S	NA	NA	33+	A	
	TARGET ROCK 3040		NA									
	81V-010 LATER		ASME III,CL2									
	IN-LINE SOLENOID VLV 81V-017											

3SSP*SOV25B	CNTMT RECIRC ISOL VV	ESB	DM	Y	N	3G	S	NA	NA	33+	A
	TARGET ROCK 3040		NA								
	81-010 LATER		ASME III,CL2								
	IN-LINE SOLENOID VLV 81V-017										

CTV - VALVE,CONTAINMENT,TRIP

3SSP*CTV8	CNTMT ISO OF SSP	CS	00025	DM	Y	N	3G	S	NA	NA	33+	A
	TARGET ROCK CORP 3040		NA									
	81V-004 654		ASME III,CL2									
	IN-LINE SOLENOID VLV 81V-004											

SOV - VALVE,SOLENOID

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SSP - POST ACCIDENT SAMPLING SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	LOCATION --- RRS REF CODES	SEIS OTHER REQ'D DYN. INPUT (ZPA)	LOADS ---- ANLYS TEST TEST FREQ DIR	NAT FREQS ---- F/B S/S VERT	SQ INS	STATUS

3SSP*SOV1A	RC COLD LEG SHPL		CS 00007	DH Y N 3G	S NA NA	33+	A		
	81V-001	3040 654		NA ASME III,CL2					
3SSP*SOV1B	RC COLD LEG SHPL		CS 00007	DH Y N 3G	S NA NA	33+	A		
	81V-001	3040 654		NA ASME III,CL2					
3SSP*SOV1C	RC COLD LEG SHPL		CS 00007	DH Y N 3G	S NA NA	33+	A		
	81V-001	3040 654		NA ASME III,CL2					
3SSP*SOV1D	RC COLD LEG SAMPLE		CS 00007	DH Y N 3G	S NA NA	33+	A		
	81V-001	3040 654		NA ASME III,CL2					
3SSP*SOV2A	RC HOT LEG SHPL		CS 00007	DH Y N 3G	S NA NA	33+	A		
	81V-001	3040 654		NA ASME III,CL2					
3SSP*SOV2B	RC HOT LEG SHPL		CS 00007	DH Y N 3G	S NA NA	33+	A		
	81V-001	3040 654		NA ASME III,CL2					
3SSP*SOV3	CNTMT DRAINS SHPL RTRN		CS -0009	DH Y N 3G	S NA NA	33+	A		
	81V-001	3040 654		NA ASME III,CL2					

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SSP - POST ACCIDENT SAMPLING SYSTEM

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	NAT FREQS ANLYS TEST TEST F/B S/S VERT	SQ INS STATUS
3SSP*SOV4	CNTHNT DRAIN SUMP SNPL		DM Y N 36	S NA NA	33+	A
	81V-001	3040 654	NA ASME III,CL2			
3SSP*SOV5	CHS SMPL RTRN		CS -0009 DM Y N 36	S NA NA	33+	A
	81V-001	3040 654	NA ASME III,CL2			

REPORT NO. MSSQT1

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PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SSR - SAMPLING SYSTEM-REACTOR PLANT

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS		STATUS					
	DESCRIPTION		BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST		F/B	S/S	VERT	SQ	INS
	VENDOR	QUAL REPORT				RRS	REF	DYN.	INPUT		FREQ	DIR					
	VEND MODEL	SPEC				CODES			(ZPA)								
	MANUFACTURER	MANUFAC MODEL															

SWEC EQUIPMENT

SOV - VALVE, SOLENOID

3SSR*SOV150A	GWS SPLY ISOL		AB	00043	DM	Y	N	3G	S	NA	NA	33+	A
	81V-007	3040			NA								
					ASME	III,CL3							
3SSR*SOV150B	GWS SPLY ISOL		AB	00043	DM	Y	N	3G	S	NA	NA	33+	A
	81V-007	3040			NA								
					ASME	III,CL3							
3SSR*SOV170	VOL CONT TK GAS SPACE SHPL		CS	00051	DM	Y	N	3G	S	NA	NA	33+	A
	81V-001	3040			NA								
					ASME	III,CL2							
3SSR*SOV171	PZR LIQ SPACE ISOL		CS	00004	DM	Y	N	3G	S	NA	NA	33+	A
	81V-001	3040			NA								
					ASME	III,CL2							
3SSR*SOV172	PZR RLF TK GAS SPACE ISOL		CS	-0024	DM	Y	N	3G	S	NA	NA	33+	A
	81V-007	3040			NA								
					ASME	III,CL3							
3SSR*SOV201	HYDRO CONTAM LIQ PURGE HDR		AB	00004	DM	Y	N	3G	S	NA	NA	33+	A
	81V-010	3040			NA								
					ASME	III,CL2							

REPORT NO. MSSQT1

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SSR - SAMPLING SYSTEM-REACTOR PLANT

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS		STATUS
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER REQ'D DYN. INPUT (ZPA)	ANLYS TEST TEST FREQ DIR	F/E	S/S	VERT	SQ INS	
3SSR*SOV24A	RX CLNT HOT LEGS SMPL 3040 61V-001		CS 00004	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A
3SSR*SOV24B	RX CLNT HOT LEGS SMPL 3040 61V-004		CS 00018	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	33+	A
3SSR*SOV28A	RX CLNT COLD LEG SMPL 3040 61V-001		CS 00004	DM NA ASME III,CL3	Y	N	3G	S	NA	NA	33+	A
3SSR*SOV28B	RX CLNT COLD LEG SMPL 3040 61V-001		CS 00005	DM NA ASME III,CL3	Y	N	3G	S	NA	NA	33+	A
3SSR*SOV28C	RX CLNT COLD LEG SMPL 3040 61V-001		CS 00005	DM NA ASME III,CL3	Y	N	3G	S	NA	NA	33+	A
3SSR*SOV28D	RX CLNT COLD LEG SMPL 3040 61V-001		CS 00004	DM NA ASME III,CL3	Y	N	3G	S	NA	NA	33+	A
3SSR*SOV31A	SFTY INJ ACCUM SMPL 3040 61V-001		CS -0023	DM NA ASME III,CL3	Y	N	3G	S	NA	NA	33+	A

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SSR - SAMPLING SYSTEM-REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFACT MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3SSR*SOV31B	SFTY INJ ACCUM SMPL 81V-001	3040	CS -0023 DM NA ASME III,CL2	Y N 3G	S NA NA	33+	A
3SSR*SOV31C	SFTY INJ ACCUM SMPL 81V-001	3040	CS -0023 DM NA ASME III,CL2	Y N 3G	S NA NA	33+	A
3SSR*SOV31D	SFTY INJ ACCUM SMPL 81V-001	3040	CS -0023 DM NA ASME III,CL2	Y N 3G	S NA NA	33+	A
3SSR*SOV67	LETDOWN HX OUTLET SMPL 81V-001	3040	AB 00004 NA ASMEIII,CL2	Y N 3G	S NA NA	33+	A
3SSR*SOV68A	THERM REGEN DEMN OUTLET SMPL 81V-002	3040	AB 00004 DM NA ASME III,CL3	Y N 3G	S NA NA	33+	A
3SSR*SOV68B	THERM REGEN DEMN OUTLET SMPL 81V-002	3040	AB 00004 DM NA ASME III,CL3	Y N 3G	S NA NA	33+	A
3SSR*SOV68C	THERM REGEN DEMN OUTLET SMPL 81V-002	3040	AB 00004 DM NA ASME III,CL3	Y N 3G	S NA NA	33+	A

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SYSTEM SSR - SAMPLING SYSTEM-REACTOR PLANT

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS		STATUS					
	DESCRIPTION	QUAL REPORT	BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST		F/B	S/S	VERT	SQ	INS
	VENDOR	SPEC				RRS	REF	DYN.	INPUT								
	VEND MODEL	SPEC				RRS	REF	DYN.	INPUT								
	MANUFACTURER	MANUFAC MODEL				RRS	REF	DYN.	INPUT								
						RRS	REF	DYN.	INPUT								

3SSR*SOV68D	THERM REGEN DEHN OUTLET SHPL	3040	AB	00004	DM	Y	N	3G	S	NA	NA	33+	A
	81V-002				NA								
					ASME III,CL3								
3SSR*SOV68E	THERM REGEN DEHN OUTLET SHPL	3040	AB	00004	DM	Y	N	3G	S	NA	NA	33+	A
	81V-002				NA								
					ASME III,CL3								
3SSR*SOV69	RX CLNT FLT INL	3040	AB	00004	DM	Y	N	3G	S	NA	NA	33+	A
	81V-002				NA								
					ASME III,CL2								
3SSR*SOV8102	VOL CNTL TK GAS SPACE SHPL	3040	AB	00043	DM	Y	N	3G	S	NA	NA	33+	A
	81V-002				NA								
					ASMEIII,CL2								

SOV - VALVE, SOLENOID

3SSR*SOV65A	RESID HT REMOVAL SHPL	3040	ESB		DM	Y	N	3G	S	NA	NA	33+	A
	81V-001	419			NA								
					ASME III,CL3								
3SSP*SOV65B	RESID HT REMOVAL SHPL	3040	ESB		DM	Y	N	3G	S	NA	NA	33+	A
	81V-001	419			NA								
					ASME III,CL3								

CTV - VALVE, CONTAINMENT, TRIP

REPORT NO. HSSQTI

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SSR - SAMPLING SYSTEM-REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG	LOADS SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3SSR*CTV19A	SG NO1 BLDN SMPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	AB 00004 DM Y N 3G	NA ASME III,CL2	S NA NA	33+	A Y
3SSR*CTV19B	SG NO2 BLDN SMPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	AB 00004 DM Y N 3G	NA ASME III,CL2	S NA NA	33+	A Y
3SSR*CTV19C	SG NO3 BLDN SMPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	AB 00004 DM Y N 3G	NA ASME III,CL2	S NA NA	33+	A Y
3SSR*CTV19D	SG NO4 BLDN SMPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	AB 00004 DM Y N 3G	NA ASME III,CL2	S NA NA	33+	A Y
3SSR*CTV20	PZR VAPOR SPACE SMPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	CS 00019 DM Y N 3G	NA ASME III,CL2	S NA NA	33+	A
3SSR*CTV21	PZR VAPOR SPACE SMPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	AB 00004 DM Y N 3G	NA ASME III,CL2	S NA NA	33+	A
3SSR*CTV22	PZR LIQ SPACE SMPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	CS 00019 DM Y N 3G	NA ASME III,CL2	S NA NA	33+	A Y

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
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BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SSR - SAMPLING SYSTEM-REACTOR PLANT

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D ANLYS TEST TEST F/B S/S VERT SQ INS
*****CTV23	PZR LIQ SPACE SHPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	AB 00004 DM Y N 3G S NA NA 33+ A	
*****CTV26	RX CLNT HOT LEGS SHPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	CS -0018 DH Y N 3G S NA NA 33+ A	
*****CTV27	RX CLNT HOT LEGS SHPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	AB 00004 DM Y N 3G S NA NA 33+ A Y	
*****CTV29	RX CLNT COLD LEG SHPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	CS 00010 DH Y N 3G S NA NA 33+ A	
*****CTV30	RX CLNT COLD LEG SHPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	AB 00004 DH Y N 3G S NA NA 33+ A Y	
*****CTV301A	SGI BLDN SHPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	AB DH Y N 3G S NA NA 33+ A	
*****CTV301B	SGI BLDN SHPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	AB DH Y N 3G S NA NA 33+ A	

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SSR - SAMPLING SYSTEM-REACTOR PLANT

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS			QUAL METH		NAT FREQS		STATUS		
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	HTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B		S/S	VERT

3SSR*CTV301C	SG1 BLDN SMPL TARGET ROCK CORP 81V-004 IN-LINE SOLENOID VLV 81V-004	3040 654	AB	DM	Y	N	3G	S	NA	NA	33+	A
3SSR*CTV32	SFTY INJ ACCUM SMPL TARGET ROCK CORP 81V-005 IN-LINE SOLENOID VLV 81V-005	3040 654	CS 00010	DM	Y	N	3G	S	NA	NA	33+	A Y
3SSR*CTV33	SFTY INJ ACCUM SMPL TARGET ROCK CORP 81V-005 IN-LINE SOLENOID VLV 81V-005	3040 654	AB 00004	DM	Y	N	3G	S	NA	NA	33+	A Y

CV - VALVE, CONTAINMENT ISOLATION, (WESTINGHOUSE)

3SSR*CV8025	PZR RLF TK GAS SPACE SMPL TARGET ROCK CORP 81V-008 IN-LINE SOLENOID VLV 81V-008	3040 654	AB 00004	DM	Y	N	3G	S	NA	NA	33+	A
3SSR*CV8026	PZR RLF TK GAS SPACE SMPL TARGET ROCK CORP 81V-008 IN-LINE SOLENOID VLV 81V-008	3040 654	CS -0016	DM	Y	N	3G	S	NA	NA	33+	A

SOV - VALVE, SOLENOID

3SSR*SOV110	DEGAS LIQ EFLNT SMPL 81V-002	3040 654	AB 00043	DM	Y	N	3G	S	NA	NA	33+	A
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DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SSR - SAMPLING SYSTEM-REACTOR PLANT

[illegible]

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SVV - STEAM VENTS-SAFETY VALVES

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3SVV*EFV26D1	ROOF DRAINS 14780N-23SE	83-085 673	MSV 00070 DM NA ASME III,CL3	Y N 3G	S NA NA	33+	A
3SVV*EFV26D2	ROOF DRAINS 14780N-23SE	83-085 673	MSV 00070 DM NA ASME III,CL3	Y N 3G	S NA NA	33+	A
3SVV*EFV27A1	SILENCER DRAINS 14780N-23SE	83-085 673	MSV 00070 DM NA ASME III,CL3	Y N 3G	S NA NA	33+	A
3SVV*EFV27A2	SILENCER DRAINS 14780N-23SE	83-085 673	MSV 00070 DM NA ASME III,CL3	Y N 3G	S NA NA	33+	A
3SVV*EFV27B1	SILENCER DRAINS 14780N-23SE	83-085 673	MSV 00070 DM NA ASME III,CL3	Y N 3G	S NA NA	33+	A
3SVV*EFV27B2	SILENCER DRAINS 14780N-23SE	83-085 673	MSV 00070 DM NA ASME III,CL3	Y N 3G	S NA NA	33+	A
3SVV*EFV27C1	SILENCER DRAINS 14780N-23SE	83-085 673	MSV 00070 DM NA ASME III,CL3	Y N 3G	S NA NA	33+	A

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SWV - STEAM VENTS-SAFETY VALVES

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV NTG	SEIS	OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT SQ INS
			RRS REF CODES	DYN.	INPUT (ZPA)	FREQ DIR	
3SVV*EFV27C2	SILENCER DRAINS		MSV 00070 DM NA	Y	N 3G	S NA NA	33+ A
	14780N-23SE	83-085 673					
			ASME III,CL3				
3SVV*EFV27D1	SILENCER DRAINS		MSV 00070 DM NA	Y	N 3G	S NA NA	33+ A
	14780N-23SE	83-085 673					
			ASME III,CL3				
3SVV*EFV27D2	SILENCER DRAINS		MSV 00070 DM NA	Y	N 3G	S NA NA	33+ A
	14780N-23SE	83-085 673					
			ASME III,CL3				

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SWP - SERVICE WATER-SYSTEM (NUCLEAR)

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS	
	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER REQ'D	ANLYS TEST	TEST	F/B	S/S	VERT	SQ INS
	VENDOR	SPEC			RRS REF	DYN. INPUT						
	VEND MODEL	SPEC			CODES	(ZPA)						
	MANUFACTURER	MANUFAC MODEL										

SWEC EQUIPMENT

P - PUMP

3SNP*P1A	SERVICE WATER PUMP GE CO. 24 VSN G.E.	01-007-008 004 VERTICAL 6338 PZ 42	CSP 00014	CF	Y	Y	.40.16	D	NA	NA	19.2	19.4	33+	A	Y
3SNP*P1B	SERVICE WATER PUMP GE.CO 24 VSN G.E.	01-007-008 004 VERTICAL 6338 PZ 42	CSP 00014	CF	Y	Y	.40.16	D	NA	NA	19.2	19.4	33+	A	Y
3SNP*P1C	SERVICE WATER PUMP GE.CO. 24 VSN G.E.	01-007-008 004 VERTICAL 6338 PZ 42	CSP 00014	CF	Y	Y	.40.16	D	NA	NA	19.2	19.4	33+	A	Y
3SNP*P1D	SERVICE WATER PUMP GE.CO. 24 VSN G.E.	01-007-008 004 VERTICAL 6338 PZ 42	CSP 00014	CF	Y	Y	.40.16	D	NA	NA	19.2	19.4	33+	A	Y

P - PUMP

3SNP*P2A	CONT BLDG A/C BOOSTER PP GOULD PUMPS 3196MT WESTINGHOUSE	ME-833 042 10 H.P.	CB 00064		Y	N	.50.15	D	N	N	46.2			A	Y
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DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SHP - SERVICE WATER-SYSTEM (NUCLEAR)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER
	VENDOR QUAL REPORT
	VEND MODEL SPEC
	MANUFACTURER MANUFAC MODEL

1. 本行在境内、境外开展业务，应当遵守所在地法律法规以及监管规定，不得接受来自境外的违法违规资金，不得为境内外违法违规活动提供便利。

3SWP#P2B	CONT BLDG A/C BOOSTER PP GOULD PUMPS ME-833 3196MT 042 WESTINGHOUSE 10 H.P.	CB 00064	Y	N	.50.15	D	N	N	46.2	A	Y
			NS(B)-017 REV 1B ASME III,CL2								
3SWP#P3A	MCC & ROD CONTROL AREA B STR GOULD PUMPS ME-978 3196ST 042 WESTINGHOUSE 10 H.P.	AB 00043	Y	N	.32.18	D	N	N	45.8	A	Y
			NS(B)-017 REV 0B ASME III,CL2								
3SWP#P3B	MCC & ROD CONTROL AREA B STR GOULD PUMPS ME-978 3196ST 042 WESTINGHOUSE 10 H.P.	AB 00043	Y	N	.32.18	D	N	N	45.8	A	Y
			NS(B)-007,REV 0B ASME III,CL2								

MOV - VALVE, MOTOR OPERATED

3SNP*MOV102A	SVCE WTR PMP DCHG HENRY PRATT LIMITORQUE OPERTOR	D-0057-7 164 SMB-00-10	CSP 00016	DM NA ASME III,CL 2	Y	N	3G	S	NA	NA	*	33+	A	Y
3SNP*MOV102B	SVCE WTR PMP DCHG HENRY PRATT 30-1100 LIMITORQUE OPERATER	D-0057-7 164 SMB-00-10	CSP 00016	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	*	33+	A	Y
3SNP*MOV102C	SVCE WTR PMP DCHG HENRY PRATT 30-1100 LIMOTORQUE OPERATOR	D-0057-7 164 SMB-00-10	CSP 00016	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	*	33+	A	Y
3SNP*MOV102D	SVCE WTR PMP DCHG HENRY PRATT 30-1100 LIMITORQUE OPERATOR	D-0057-7 164 SMB-00-10	CSP 00016	DM NA ASME III,CL2	Y	N	3G	S	NA	NA	*	33+	A	Y

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SWP - SERVICE WATER-SYSTEM (NUCLEAR)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG	ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	ING	STATUS
						RRS REF	DYN.	INPUT									
						CODES		(ZPA)									
3SNP*HOV50A	RX PLNT CMPNT CLG HX HENRY PRATT 30-1100 LIMITORQUE OPERATOR	SPLY D-0057-6 164 SMB-00-	AB	00024	DH	Y	N	3G	S	NA	NA		33+			A	Y
3SNP*HOV50B	RX PLNT CMPNT CLG HX HENRY PRATT 30-1100 LIMITORQUE OPERATOR	SPLY D-0057-6 164 SMB-00	AB	00024	DH	Y	N	3G	S	NA	NA		33+			A	Y
3SNP*HOV54A	CONT RECIRC CLR SPLY HENRY PRATT N-SL-2FII LIMITORQUE OPERATOR	SPLY D-0057-4 164 SMB-00-5	ESB	00004	DH	Y	N	3G	S	NA	NA		33+			A	Y
3SNP*HOV54B	CONT RECIRC CLR SPLY HENRY PRATT N-SL-2FII LIMITORQUE OPERATOR	SPLY D-0057-4 164 SMB-00-5	ESB	00004	DH	Y	N	3G	S	NA	NA		33+			A	Y
3SNP*HOV54C	CONT RECIRC CLR SPLY HENRY PRATT N-SL-2FII LIMITORQUE OPERATOR	SPLY D-0057-4 164 SMB-00-5	ESB	00004	DH	Y	N	3G	S	NA	NA		33+			A	Y
3SNP*HOV54D	CONT RECIRC CLR SPLY HENRY PRATT N-SL-2FII LIMITORQUE OPERATOR	SPLY D-0057-4 164 SMB-00-5	ESB	00004	DH	Y	N	3G	S	NA	NA		33+			A	Y
3SNP*HOV57A	CONT RECIRC CLR DSCHRG HENRY PRATT N-SL-2FII LIMITORQUE OPERATOR	SPLY D-0057-4 164 SMB-00-5	ESB	00036	DH	Y	N	3G	S	NA	NA		33+			A	Y

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SHP - SERVICE WATER-SYSTEM (NUCLEAR)

EQUIPMENT ID	EQUIPMENT		LOCATION		LOADS		QUAL METH		NAT FREQS		STATUS	
	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV	MTG	SEIS	OTHER REQ'D DYN. INPUT (ZPA)	ANLYS	TEST TEST FREQ DIR	F/B	S/S	VERT	SQ INS

3SHP#NOV57B	CONT RECIRC CLR DSCHRG HENRY PRATT N-SL-2FII LIMITORQUE OPERATOR	D-0057-4 164 SHB-00-5	ESB 00036	DM	Y	N	3G	S	NA	NA	33+	A Y
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3SHP#NOV57C	CONT RECIRC CLR DSCHRG HENRY PRATT N-SL-2FII LIMITORQUE OPERATOR	D-0057-4 164 SHB-00-5	ESB 00036	DM	Y	N	3G	S	NA	NA	33+	A Y
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3SHP#NOV57D	CONT RECIRC CLR DISCHARGE HENRY PRATT N-SL-2FII LIMITORQUE OPERATOR	D-0057-4 164 SHB-00-5	ESB 00036	DM	Y	N	3G	S	NA	NA	33+	A Y
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3SHP#NOV71A	TURB FLT CMPNT CLG HX SPLY HENRY PRATT NIR II LIMITORQUE OPERATOR	D-0057-5 164	AB 00004	DM	Y	N	3G	S	NA	NA	3 33+	A Y
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3SHP#NOV71B	TURB FLT CMPNT CLG HX SPLY HENRY PRATT NIR II LIMITORQUE OPERATOR	D-0057-5 164 SHB-00-5	AB 00004	DM	Y	N	3G	S	NA	NA	3 33+	A Y
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AGV - VALVE, AIR OPERATED

3SHP#AGV39A	EMER DIESEL CLR OUT FISHER 9220 NAMCO LIMIT SWITCH	8K559-03 185 EA 170	EGE 00036	DM	Y	N	3G	S	NA	NA	33+	A Y
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3SHP#AGV39B	EMER DIESEL CLR OUT FISHER 9220 NAMCO LIMIT SWITCH	8K559-04 185 EA 170	EGE 00036	DM	Y	N	3G					A Y
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REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SWP - SERVICE WATER-SYSTEM (NUCLEAR)

[illegible]

RV - VALVE,RELIEF

3SWP#RV132A	MCC AREA ACU CLG WTR LCT-11/SP	407487-REV.5 186	EJB 00074 DM Y N V	3G S SF SD	33+	A Y
3SWP#RV132B	MCC AREA ACU CLG WTR LCT-11/SP	407487-REV.5 186	AB 00074 DM Y N V	3G S SF SD	33+	A Y
3SWP#RV89A	CONT BLDG A/C WTR CHLRS LCT-11/SP	407487-REV.5 186	CB 0007 NA Y N	3G S SF SD	33+	A Y
3SWP#RV89B	CONT BLDG A/C WTR CHLRS LCT-11/SP	407487-REV.5 186	CB 00076 DM NA Y N	3G S SF SD	33+	A Y
3SWP#RV90A	EMER GEN DIESEL ENG CLRS LCT-11/SP	407487-REV.5 186	EGE 00036 DM NA Y N	3G S SF SD	33+	A Y
3SWP#RV90B	EMER GEN DIESEL ENG CLRS LCT-11/SP	407487-REV.5 186	EGE 00036 DM NA Y N	3G S SF SD	33+	A Y
3SWP#RV91A	CNTHT RECIRC PHP VENT UNITS LCT-11/SP	407487-REV.5 186	ESB 00042 DM NA Y N	3G S SF SD	33+	A Y

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SNP - SERVICE WATER-SYSTEM (NUCLEAR)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MOI EL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	LOADS	ANLYS TEST TEST FREQ DIR	NAT FREQS	S/S	VERT	SQ INS
*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
3SNP*RV91B	CNTMNT RECIRC PHP VENT UNITS 407487-REV.5 LCT-11/SP 186	ESB 00042 DM Y N 3G S SF SD 33+ A Y	NA ASME III,CL3							
3SNP*RV92A	RSDL HT RHVL PHP VENT UNITS 407487-REV.5 LCT-11/SP 186	ESB 00042 DM Y N 3G S SF SD 33+ A Y	NA ASME III,CL3							
3SNP*RV92B	RSDL HT RHVL PHP VENT UNITS 407487-REV.5 LCT-11/SP 186	ESB 00042 DM Y N 3G S SF SD 33+ A Y	NA ASME III,CL3							
3SNP*RV93A	SFTY INJ PHP CLRS 407487-REV.5 LCT-11/SP 186	ESB 00031 DM Y N 3G S SF SD 33+ A Y	NA ASME III,CL3							
3SNP*RV93B	SFTY INJ PHP CLRS 407487-REV.5 LCT-11/SP 186	ESB 00031 DM Y N 3G S SF SD 33+ A Y	NA ASME III,CL3							
3SNP*RV94A	CNTMNT RECIRC CLRS 407487-REV.5 LCT-11/SP 186	ESB 00047 DM Y N 3G S SF SD 33+ A Y	NA ASME III,CL3							
3SNP*RV94B	CNTMNT RECIRC CLRS 407487-REV.5 LCT-11/SP 186	ESB 00047 DM Y N 3G S SF SD 33+ A Y	NA ASME III,CL3							

REPORT NO. MSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY MUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SHP - SERVICE WATER-SYSTEM (NUCLEAR)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	EQUIPMENT QUAL REPORT SPEC MANUFAC MODEL	LOCATION BLDG ELEV MTG RRS REF CODES	LOADS SEIS OTHER REQ'D DYN. INPUT (ZPA)	QUAL METH ANLYS TEST TEST FREQ DIR	NAT FREQS F/B S/S VERT	STATUS SQ INS
3SHP*RV94C	CNTHT RECIRC CLRS LCT-11/SP	407487-REV.5 186	ESB 00047 DM NA ASME III,CL3	Y N 3G	S SF SD	33+	A Y
3SHP*RV94D	CNTHT RECIRC CLRS LCT-11/SP	407487-REV.5 186	ESB 00047 DM NA ASME III,CL3	Y N 3G	S SF SD	33+	A Y
3SHP*RV95A	RX PLT CMPNT CLG HX LCT-11/SP	407487-REV.5 186	AB 00031 DM NA ASME III,CL3	Y N 3G	S SF SD	33+	A Y
3SHP*RV95B	RX PLT CMPNT CLG HX LCT-11/SP	407487-REV.5 186	AB 00031 DM NA ASME III,CL3	Y N 3G	S SF SD	33+	A Y
3SHP*RV95C	RX PLT CMPNT CLG HX LCT-11/SP	407487-REV.5 186	AB 00031 DM NA ASME III,CL3	Y N 3G	S SF SD	33+	A Y
3SHP*RV96A	CHG PHP CLR LCT-11/SP	407487-REV.5 186	AB 00029 DM NA ASME III,CL3	Y N 3G	S SF SD	33+	A Y
3SHP*RV96B	CHG PHP CLR LCT-11/SP	407487-REV.5 186	AB 00029 DM NA ASME III,CL3	Y N 3G	S SF SD	33+	A Y

PI - INDICATOR, PRESSURE

REPORT NO. MSSQT1

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SWP - SERVICE WATER-SYSTEM (NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

3SNP-PI67A EHER GEN DIESEL ENG CLR INL EGE 00026 D Y

241

3SNP-FI67B EHER GEN DIESEL ENG CLR INL EGE 00026 D Y

FIS - SWITCH, INDICATING, FLOW

3SKPWFIS36A	CONT BLDG AC COND OUT	CB 00065 RM Y N .50.15 N HF MD	42 A Y
	ITT BARTON R3-580A-9	NS(B)-017 REV 1B	
	224/580A-1 377	IEEE-323,344	
	ITT BARTON 224/580A-1		

3SWP*FIS36B	CONT BLDG AC COND OUT	CB 00064 RM Y N .50.15 N HF MD	42 A Y
	ITT BARTON R3-580A-9	NS(B)-017 REV 1B	
	224/580A-1 377	IEEE-323,344	
	ITT BARTON 224/580A-1		

PDIS - SWITCH, INDICATING, PRESSURE DIFFERENTIAL

3SWP*PDIS24A	SVCE WTR STRNR BK FLUSH	CSP 00014	RH	Y	N	.40.16	N	HF	MD	42	A	Y
	ITT BARTON	R3-580A-9	NS(B)-017 REV 1B									
	224/580A-1	377	IEEE-323,344									
	ITT BARTON	244/580A-1										

35NP*PDIS24B	SVCE NTR STRNR BK FLUSH	CSP 00014 RH	Y	N	.40.16	N	MF	MD	42	A	Y
	ITT BARTON	R3-580A-9	NS(B)-017 REV 1B								
	224/580A-1	377	IEEE-323,344								
	ITT BARTON	244/580A-1									

REPORT NO. HSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SWP - SERVICE WATER-SYSTEM (NUCLEAR)

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS	STATUS
	VENDOR	SPEC			RRS	REF	DYN.	INPUT		FREQ	DIR					
	VEND MODEL	MANUFACTURER			CODES			(ZPA)								

3SNP*PDIS24C	SVCE WTR STRNR BK FLUSH		CSP	00014	RM	Y	N	.40.16	N	MF	MD		42	A	Y	
	ITT BARTON	R3-580A-9						NS(B)-044	REV 2B							
	224/580A-1	377						IEEE-323,344								
	ITT BARTON	244/580A-1														
3SNP*PDIS24D	SVCE WTR STRNR BK FLUSH		CSP	00014	RM	Y	N	.40.16	N	MF	MD		42	A	Y	
	ITT BARTON	R3-580A-9						NS(B)-044	REV 2B							
	224/580A-1	377						IEEE-323,344								
	ITT BARTON	244/580A-1														

FY - RELAY, COMPUTING, SELECTING OR BOOSTER

3SNP-FY59A	CONT RECIRC CLRS SVCE WTR OUT		CB	00048	RM	Y	N	.40.15								D
	392							NS(B)-017	REV1B							
								IEEE-344,322								
3SNP-FY59B	CONT RECIRC CLRS SVCE WTR OUT		CB	00048	RM	Y	N	.40.15								D
	392							NS(B)-017	REV1B							
								IEEE-344,322								
3SNP-FY59C	CONT RECIRC CLRS SVCE WTR OUT		CB	00048	RM	Y	N	.40.15								D
	392							NS(B)-017	REV1B							
								IEEE-344,322								
3SNP-FY59D	CONT RECIRC CLRS SVCE WTR OUT		CB	00048	RM	Y	N	.40.15								D
	392							NS(B)-017	REV1B							
								IEEE-344,322								

TC - CONTROLLER, TEMPERATURE

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PROJECT EQUIPMENT SYSTEM
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MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SWP - SERVICE WATER-SYSTEM (NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

[illegible]

3SNP*TC35B	CONT BLDG A/C INL	CB 00048 RM Y N	N	HF	MD	NA	NA	NA	D
	FOXBORO	Q0AAB42	NS(B)-017 REV 1B						
	N-2AC-A5	392	IEEE 344,323						
	PID CONTROLLER	N-2AC-A5							

TIC - CONTROLLER, INDICATING, TEMPERATURE

3SWP*TIC35A	CONT BLDG AC INLET	CB 00046 RM Y N	N HF MD NA NA NA A
	FOXBORO	QQAAB67	NS(B)-017 REV 1B
	N-250NH+M2NH-F	392	IEEE 344,323
	ELEC DISPL STATIONS	N-250NH+M2NH-F	

3SWP*TIC35B	CONT BLDG AC INLET	CB 00048 RM Y N .40.15 N HF MD NA NA NA A
	FOXBORO	QOAA67 NS(B)-017 REV 1B
	N-250HM+M2NH-F	392 IEEE 344,323
	ELEC DISPL STATIONS	N-250HM+M2NH-F

TY - RELAY,COMPUTING,SELECTING OR BOOSTER,TEMPERATURE

3SHP*TY35A1	CONT BLDG AC INLET	CB 00048 RM Y N .40.15 N HF MD NA NA NA A
	FOXBORO	Q0AAB29
	N-2AI-P2V	392
	R/E CONVERTER	IEEE 344,323
		N-2AI-P2V

3SHP*TY35A2	CONT BLDG AC INLET	CB 00048 RM Y N .40.15 N HF MD NA NA NA C
	FOXBORO	NS(B)-017 REV 1B
	N-2AO-V2I	IEEE 344,323
	E/I CONVERTER	

REPORT NO. NSSQT1

PLANT NAME HILLSTONE UNIT 3
UTILITY NUSCO

DUCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SWP - SERVICE WATER-SYSTEM (NUCLEAR)

EQUIPMENT ID	DESCRIPTION VENDOR VEND MODEL MANUFACTURER	QUAL REPORT SPEC MANUFAC MODEL	BLDG ELEV MTG	SEIS OTHER REQ'D RRS REF DYN. INPUT CODES (ZPA)	ANLYS TEST TEST FREQ DIR	F/B	S/S	VERT	SQ	INS	STATUS
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3SWP*TY35B1	CONT BLDG AC INLET FOXBORO N-2AI-P2V R/E CONVERTER	QQAAB29 392 N-2AI-P2V	CB 00048 RM	Y N .40.15 N	HF MD	NA	NA	NA	NA	A	
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3SWP*TY35B2	CONT BLDG AC INLET FOXBORO N-2AO-V2I E/I CONVERTER	QQAAB50 392 N-2AO+V2I	CB 00048 RM	Y N .40.15 N	HF MD	NA	NA	NA	NA	C	
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MOV - VALVE, MOTOR OPERATED

3SWP*MOV115A	CIRC WTR PHP BEARING CUBE TUFLINE 18014-05 FIG.067 568 LIMITORQUE OPERATOR SHB-00-2	CSP 00014 DM	Y N 3G	S	NA	NA	33+	A	Y	
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3SWP*MOV115B	CIRC WTR PHP BEARING CUBE TUFLINE 18014-05 FIG.067 568 LIMITORQUE OPERATOR SHB-00-2	CSP 00014 DM	Y N 3G	S	NA	NA	33+	A	Y	
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3SWP*MOV130A	SUCE WTR FOR 3HVR*ACUIA TUFLINE 18014-00 FIG.067 568 LIMITORQUE OPERATOR SHB-00-	AB 00014 DM	Y N 3G	S	NA	NA	20+	A	Y	
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3SWP*MOV130B	PLUG VALVE TUFLINE 18014-00 FIG.067 568 LIMITORQUE OPERATOR SHB-00-	AB 00014 DM	Y N 3G	S	NA	NA	20+	A	Y	
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3SWP*MOV24A	SUCE WTR STRNR BK FLUSH TUFLINE NP1729 FIG.067 568 LIMITORQUE OPERATOR SHB-00-2	CSP 00014 DM	Y N 3G	S	NA	NA	33+	A	Y	
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REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SWP - SERVICE WATER-SYSTEM (NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN. INPUT	FREQ DIR	NAT FREQS	S/S	VERT	SQ INS
VENDOR	QUAL REPORT		RRS REF						
VEND MODEL	SPEC		CODES	(ZPA)					
MANUFACTURER	MANUFAC MODEL								

35NP*MOV24B	SVCE WTR STRNR BK FLUSH TUFLINE NP1729 FIG.067 568 LIMITORQUE OPERATOR SMB-00-2	CSP 00014 DM Y N 3G S NA NA 33+ A Y
35NP*MOV24C	SVCE WTR STRNR BK FLUSH TUFLINE NP1729 FIG.067 568 LIMITORQUE OPERATOR SMB-00-2	CSP 00014 DM Y N 3G S NA NA 33+ A Y
35NP*MOV24D	SVCE WTR STRNR BK FLUSH TUFLINE NP1729 FIG.067 568 LIMITORQUE OPERATOR SMB-00-2	CSP 00014 DM Y N 3G S NA NA 33+ A Y

RE - RADIOACTIVITY ELEMENT, PRIMARY

[illegible]

RIY - RADIATION INDICATING RELAY

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3SNP*RIY60A    REMOTE MICROPROCESSOR    FB 00024 CN  Y  N  .25.15 N  HF  MD  24.0 24.0 28.0  B  Y
KAMAN SCIENCES  K-84-50/16683-8    NS(B)-074 REV 18
KEM-S(450953-004)  624    IEEE 323,IEEE 344
KAMAN           HDG
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DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EGC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SHP - SERVICE WATER-SYSTEM (NUCLEAR)

EQUIPMENT ID	DESCRIPTION	BLOG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT	FREQ DIR		
VEND MODEL	SPEC	CODES	(ZPA)			
MANUFACTURER	MANUFAC MODEL					

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35HP*RIY60B	REMOTE MICROPROCESSOR	FB 00024 CH Y N .25.15 N MF MD 24.0 24.0 28.0 B Y
	KAMAN SCIENCES K-84-50/16683-8	NS(B)-074 REV 1B
	KEM-S(450953-00C, 624	IEEE 323, IEEE 344
	KAMAN KDG	

PS - SWITCH, PRESSURE

35HP*PS27A	SVCE NTR SUPPLY	CSP 00017 RM	Y	N	.40.16	D	Y
	AUTOMATIC SWITCH CO				NS(B)-007-REV 0B		
	SB11AKR/TE10A52R	626			IEEE 323-1974&IEEE 344-1975		
	ASCO PRESSURE SNITCH	SB11AKR/TE10A52R					

35KP*PS27B	SVCE WTR SUPPLY	CSP 00017 RM	Y	N	.49.16	D	Y
	AUTOMATIC SWITCH CO				NS(B)-007-REV 0B		
	S811AKR/TE10A52R	626			IEEE 323-1974&IEEE 344-1975		
	ASCO PRESSURE SWITCH	S811AKR/TE10A52R					

35NP*P569A	TURB PLT CHPNT CLG HX INL	AB 00004 RM	Y	N	.27.16	D	Y
	AUTOMATIC SWITCH				NS(B)-007,REV 0B		
	SB11AKR/TE10A52R	626			IEEE 323-1974&IEEE 344-1975		
	ASCO PRESSURE SWITCH SB11AKR/TE10A52R						

35NP*PS69B	TURB PLT CHPNT CLG HX INL	AB 00004 RM	Y	N	.27.16	D	Y
	AUTOMATIC SWITCH CO				NS(B)-007,REV 0B		
	SB11AKR/TE10A52R	626			IEEE 323-1974&IEEE 344-1975		
	ASCO PRESSURE SWITCH SB11AKR/TE10A52R						

3SHP*PS70A	TURB PLT CHPNT CLG HX INL	AD 00004 RM	Y	N	.27.16	D	Y
	AUTOMATIC SWITCH CO				NS(B)-007,REV 0B		
	SB11AKR/TE10A52R	626			IEEE 323-1974&IEEE 344-1975		
	ASCO PRESSURE SWITCH SB11AKR/TE10A52R						

3SNP*PS70B	TURB PLT CHPNT CLG HX INL	AB 00004 RH	Y	N	.27.16	D	Y
	AUTOMATIC SWITCH CO				NS(B)-007,REV 0B		
	SB11AKR/TE10A52R	626			IEEE 323-1974&IEEE 344-1975		
	ASCO PRESSURE SWITCH SB11AKR/TE10A52R						

REPORT NO. HSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM SWP - SERVICE WATER-SYSTEM (NUCLEAR)

[illegible]

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FT - TRANSMITTER, FLOW

3SWP-FT59A	CONT RECIRC CLRS SVCE WTR OUT ROSEMOUNT 108025 1153DB 662 DIFF PRSSR TRANSMITR 1153DB5PC	ESB 00021 RM Y N .24.12 N MF MD 50 47 50 A
3SWP-FT59B	CONT RECIRC CLRS SVCE WTR OUT ROSEMOUNT 108025 1153DB 662 DIFF PRSSR TRANSMITR 1153DB5PC	ESB 00048 RM Y N .28.14 N MF MD 50 47 50 A
3SWP-FT59C	CONT RECIRC CLRS SVCE WTR OUT ROSEMOUNT 108025 1153DB 662 DIFF PRSSR TRANSMITR 1153DB5PC	ESB 00021 RM Y N .24.12 N MF MD 50 47 50 A
3SWP-FT59D	CONT RECIRC CLRS SVCE WTR OUT ROSEMOUNT 108025 1153DB 662 DIFF PRSSR TRANSMITR 1153DB5PC	ESB 00021 RM Y N .24.12 N MF MD 50 47 50 A

TE - TEMPERATURE ELEMENT, PRIMARY

[illegible]

REPORT NO. MSSQT1

PLANT NAME MILLSTONE UNIT 3
UTILITY NUSCO

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

REPORT DATE 10/11/94

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM VBA - VITAL BUS - AC SUPPLY (TO BUS)

EQUIPMENT ID	DESCRIPTION	QUAL REPORT	BLDG ELEV	MTG	SEIS	OTHER	REQ'D	ANLYS	TEST	TEST	F/B	S/S	VERT	SQ	INS
	VENDOR														
	VEND MODEL	SPEC													
	MANUFACTURER	MANUFAC MODEL													

SNEC EQUIPMENT

XRC - TRANSFORMER REGULATING CONTROL

3VBA*XRC-6	+UAC6 REG XFMR CONT		TB	00038	Y	N	.25.15	S	NA	NA	40+	40+	40+	A	Y
	PLC-253-1-1	80255					NS(B)-017,REV1B								
							IEEE-323,344								

XD - TRANSFORMER DISTRIBUTION

3VBA*XD-1A	VITAL BUS ISOLATION XFMR		CB	00004	CH	Y	N	.25.15	N	HF	MD	18	22	18	A	Y
	POWER CONV PROD INC	WYLE 45999-1					NS(B)-017 REV1B									
		608					IEEE 344									
	POWER CON PROD INC	5KVA														
3VBA*XD-2A	VITAL BUS ISOLATION XFMR		CB	00004	CH	Y	N	.25.15	N	HF	MD	18	22	18	A	Y
	POWER CONV PROD INC	WYLE 45999-1					NS(B)-017 REV 1B									
		608					IEEE 344									
	POWER CON PROD INC	5KVA														
3VBA*XD-3A	VITAL BUS ISOLATION XFMR		CB	00004	CH	Y	N	.25.15	N	HF	MD	18	22	18	A	Y
	POWER CONV PROD INC	WYLE 45999-1					NS(B)-017 REV 1B									
		608					IEEE 344									
	POWER CON PROD INC	5KVA														
3VBA*XD-4A	VITAL BUS ISOLATION XFMR		CB	00004	CH	Y	N	.25.15	N	HF	MD	18	22	18	A	Y
	PHR CONVRN PROD INC	WYLE 45999-1					NS(B)-017 REV 1B									
		608					IEEE 344									
	PHR CONVRN PROD INC	5KVA														

INV - INVERTER

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PROJECT EQUIPMENT SYSTEM
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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM VBA - VITAL BUS - AC SUPPLY (TO BUS)

EQUIPMENT ID	DESCRIPTION	BLDG ELEV HTG	SEIS OTHER REQ'D	ANLYS TEST TEST FREQ DIR	F/B S/S VERT SQ INS
VENDOR	QUAL REPORT	RRS REF	DYN. INPUT		
VEND MODEL	SPEC	CODES	(ZPA)		
MANUFACTURER	MANUFAC MODEL				

3VBA*INV-1	STATIC INVERTER ELGAR CORP UPS-253-1-101 ELGAR	58733 622 UPS 253 1-102	CB 00004 CF Y N .25.15 S NA NA 12 08 13 A Y
3VBA*INV-2	STATIC INVERTER ELGAR CORP UPS-253-1-101 ELGAR	58733 622 UPS 253 1-102	CB 00004 CF Y N .25.15 S NA NA 12 08 13 A Y
3VBA*INV-3	STATIC INVERTER ELGAR CORP UPS-253-1-101 ELGAR	58733 622 UPS 253 1-102	CB 00004 CF Y N .25.15 S NA NA 12 08 13 A Y
3VBA*INV-4	STATIC INVERTER ELGAR CORP UPS-253-1-101 ELGAR	58733 622 UPS 253 1-102	CB 00004 CF Y N .25.15 S NA NA 12 08 13 A Y

SN - SWITCH

3VBA*SH-1	MANUAL BYPASS SWITCH 80254 622 8461020-01	CB 00004 CF Y N .30.15 S NA NA 40+ 40+ 40+ A Y NS(B)-017 REV 1B IEEE-344
3VBA*SH-2	MANUAL BYPASS SWITCH ELGAR CORP 80254 8461020-01 622 ELGAR MAN. BY PASS	CB 00004 CF Y N .30.15 S NA NA 40+ 40+ 40+ A Y NS(B)-017 REV 1B IEEE-344
3VBA*SH-3	MANUAL BYPASS SWITCH ELGAR CORP 80254 8461020-01 622 ELGAR MAN. BY PASS	CB 00004 CF Y N .30.15 S NA NA 40+ 40+ 40+ A Y NS(B)-017 REV 1B IEEE-344

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REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM VBA - VITAL BUS - AC SUPPLY (TO BUS)

[illegible]

PNL - PANEL

3VBA*PNL-VB1	VIAC-1 120 VAC VITAL SYSTEM CONTROL CORP	BUS (RED) -82N&-83N 637	CB 00004 CF Y N .25.15 S	MF MD	55.2 NA NA	A Y
	SYSTEM CONTROL CORP	120V DC	NS(B)-017,REV.1B IEEE 344			
3VBA*PNL-VB2	VIAC-2 120VAC VITAL SYSTEM CONTROL CORP	BUS (WHITE) -82N&-83N 637	CB 00004 CW Y N .25.15 S	MF MD	55.2 NA NA	A Y
	SYSTEM CONTROL CORP	120V DC	NS(B)-017,REV.1B IEEE 344			
3VBA*PNL-VB3	VIAC-3 120VAC VITAL SYSTEM CONTROL CORP	BUS (BLUE) -82N&-83N 637	CB 00004 CW Y N .25.15 S	MF MD	55.2 NA NA	A Y
	SYSTEM CONTROL CORP	120V DC	NS(B)-017,REV.1B IEEE 344			
3VBA*PNL-VB4	VIAC-4 120 VAC VITAL SYSTEM CONTROL CORP	BUS (YL) -82N&-83N 637	CB 00004 CW Y N .25.15 S	MF MD	55.2 NA NA	A Y
	SYSTEM CONTROL CORP	120V DC	NS(B)-017,REV.1B IEEE 344			

DOCKET NO. 50-423

PROJECT EQUIPMENT SYSTEM
SEISMIC AND DYNAMIC QUALIFICATION AND STATUS REPORT
MASTER LIST OF SAFETY RELATED EQUIPMENT
BY SYSTEM, SUPPLIER, SPEC, EQC, EQUIPMENT ID

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ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM VRS - VENTS GASEOUS REACTOR PLANT - SYSTEM

EQUIPMENT ID	DESCRIPTION	BLDG ELEV MTG	SEIS OTHER REQ'D	DYN. INPUT	FREQ DIR	ANLYS TEST TEST	F/B S/S VERT	SQ INS
VENDOR	QUAL REPORT		RRS REF					
VEND MODEL	SPEC		CODES	(ZPA)				
MANUFACTURER	MANUFAC MODEL							

SWEC EQUIPMENT

CTV - VALVE, CONTAINMENT, IRIP

[illegible]

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ENGINEER: STONE & WEESTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM WTC - WATER TREATING - CHLORINATION

[illegible]

SNEC EQUIPMENT

AOV - VALVE, AIR OPERATED

3WTC*AOV24A	CHLORINATED WTR TO SWS TUFLINE 314-18014 FIG 0361 568	CSP 00001 DM Y N 3G S NA NA 33+ A Y NA ASME III,CL3
3WTC*AOV24B	CHLORINATED WTR TO SWS TUFLINE 314-18014 FIG 0361 568	CSP 00001 DM Y N 3G S NA NA 33+ A Y NA ASME III,CL2
3WTC*AOV25A	WATER FEED TO CHLORINATION SYS TUFLINE 315-18014 FIG 067 568	CSP 00015 DM Y N 3G S NA NA 33+ A Y NA ASME III,CL3
3WTC*AOV25B	WATER FEED TO CHLORINATION SYS TUFLINE 316-18014 FIG 067 568	CSP 00015 DM Y N 3G S NA NA 33+ A Y NA ASME III,CL3
3WTC*AOV50A	CHLORINE FEED VALVE ORANGE TUFLINE 313-18014 FIG 0361 568	CSP 00001 DM Y N 3G S NA NA 33+ A Y NA ASME III,CL3
3WTC*AOV50B	CHLORINE FEED VALVE PURPLE TUFLINE 313-18014 FIG 0361 568	CSP 00001 DM Y N 3G S NA NA 33+ A Y NA ASME III,CL3

REPORT DATE 10/11/84

ENGINEER: STONE & WEBSTER
NSSS SUPPLIER: WESTINGHOUSE

SYSTEM WTC - WATER TREATING - CHLORINATION

[illegible]

SOV - VALVE, SOLENOID

3HTC*SOV24A1	CHLORINATED WTR TO SHS AQR-67368 568	CSP 00015	EM	Y	N	3G	N	SF	SD	35+	A
			NA							IEEE-323,344,382	
3HTC*SOV24B1	CHLORINATED WTR TO SHS AQR-67368 568	CSP 00015	EM	Y	N	3G	N	SF	SD	35+	A
			NA							IEEE-323,344,382	
3HTC*SOV25A1	WTR TO CHLORINE EDUCTOR AQR-67368 568	CSP 00015	EM	Y	N	3G	N	SF	SD	35+	A
			NA							IEEE-323,344,382	
3HTC*SOV25B	WATER FEED TO CHLORINATION SYS AQR-67368 568	CSP 00015	EM	Y	N	3G	N	SF	SD	35+	A
			NA							IEEE-323,344,382	
3HTC*SOV50A	CHLORINE FEED VALVE ORANGE AQR-67368 568	CSP 00014	EM	Y	N	3G	N	SF	SD	35+	A
			NA							IEEE-323,344,382	
3HTC*SOV50B	CHLOR FEED AQR-67368 568	CSP 00014	EM	Y	N	3G	N	SF	SD	35+	A
			NA							IEEE-323,344,382	