

**TEXAS UTILITIES GENERATING COMPANY**  
SKYWAY TOWER • 400 NORTH OLIVE STREET, L.B. 81 • DALLAS, TEXAS 75201

June 2, 1986

WILLIAM G. COUNSIL  
EXECUTIVE VICE PRESIDENT

Director of Nuclear Reactor Regulation  
Attention: Mr. Vince S. Noonan, Director  
Comanche Peak Project  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)  
DOCKET NOS. 50-445 AND 50-446  
GENERIC LETTER 83-28  
REQUIRED ACTIONS BASED ON GENERIC  
IMPLICATIONS OF SALEM ATWS EVENTS

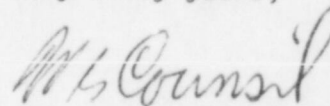
- REF: 1) V. S. Noonan letter to W. G. Council  
dated December 5, 1985
- 2) B. R. Clements letter TXX-4701 to  
D. G. Eisenhower dated November 3, 1981

Dear Mr. Noonan:

Enclosed is the response to the NRC request for additional information (Reference 1) relative to NRC Generic Letter 83-28. This response addresses the CPSES program for post-trip review and the periodic maintenance program for the reactor trip breakers.

Also enclosed is a revision to a previous response (Reference 2) to Section 3.2, paragraph 1 of Generic Letter 83-28. This revision is intended as a clarification to the CPSES post-maintenance testing for all safety-related components (except the reactor trip system).

Very truly yours,



W. G. Council

RWH/grr  
Enclosure

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GENERIC LETTER 83-28

ITEM 1.2, "POST TRIP REVIEW"

NRC COMMENT: The data information capabilities either fail to meet the review criteria or provide insufficient information to allow determination of the adequacy of the data and information capabilities in the following areas:

1. The parameters monitored by both the sequence-of-events and time history recorders.
2. The time history recorder(s) performance characteristics.

CPSSES RESPONSE: 1) Attachment 1 contains information concerning parameters which currently exist on the Emergency Response Facilities Computer System (ERFCS) or the P-2500 Balance of Plant Computer. These parameters will provide information which will adequately address those areas which were identified as being deficient. Some parameters, as denoted in Attachment 1, will be added to either the sequence-of-events recorder or the post-trip log portions of their respective computer systems.

2) TUGCO is presently reviewing available commercial software which will increase the time duration of both pre and post trip data collections. By modifying the existing software, time durations of 5 MINS/10 MINS versus the existing 2 MINS/3 MINS for pre/post trip data would be possible. This modification will be implemented by fuel load.

ITEM 4.2.1, "PERIODIC MAINTENANCE PROGRAM"

NRC COMMENT: The exception to UVTA trip force check in CPSSES' electrical maintenance instruction (for maintenance activities on the reactor trip breakers) was found unacceptable.

CPSSES RESPONSE: A UVTA trip force and breaker load check will be incorporated into the CPSSES maintenance or surveillance program prior to Unit 1 fuel load.

### ITEM 3.2.1, "POST-MAINTENANCE TESTING"

CPSES RESPONSE: Test and Maintenance procedures were reviewed to determine whether post-maintenance operability testing of components in other safety related systems is required to be conducted and that the testing adequately demonstrates that affected equipment is capable of performing its safety-related functions. A review of each maintenance action to determine post-maintenance testing is required by existing plant procedures. To assist the maintenance organization (Maintenance Department or I&C) and the Shift Supervisor in the identification of Technical Specification related Surveillance Tests which may be included as post-maintenance tests, an index of selected component tag numbers versus potential testing requirements has been developed (i.e., the Post Work Test List).

ATTACHMENT 1



ATTACHMENT NO. 1

The following pages provide monitoring information for the post-trip review parameters/signals listed:

1. Containment Isolation
2. Control Rod Position
3. Containment Radiation
4. Containment Sump Level
5. Safety Injection; Flow, Pump/Valve Status
6. MSIV Position
7. Feedwater Flow
8. Steam Flow
9. Auxiliary Feedwater System; Flow, Pump/Valve Status
10. AC and DC System Status (Bus Voltage)
11. PORV Position

Note: See Attachment 2 for P-2500 definitions of abbreviations.  
See Attachment 3 for ERPCS definitions of abbreviations.

## CONTAINMENT ISOLATION - PHASE A, PHASE B, AND VENTILATION ISOLATION

<u>TAG NUMBER</u>	<u>DESCRIPTION</u>	<u>COMPUTER</u>	<u>SIGNAL TYPE</u>	<u>ARCHIVAL PERIOD RESOLUTION</u>	<u>ARCHIVAL PERIOD</u>
*CISOP-A (A&B)	CNTMT ISOL PHASE A TRAIN (A&B)	ERFCS	DIGITAL	10 MSEC	30 SEC/120 SEC
CISOP-A (A&B)	CNTMT ISOL PHASE A TRAIN (A&B)	ERFCS	DIGITAL	1 SEC	CONTINUOUS
*CISOPH-B (A&B)	CNTMT ISOL PHASE B TRAIN (A&B)	ERFCS	DIGITAL	10 MSEC	30 SEC/120 SEC
CISOPH-B (A&B)	CNTMT ISOL PHASE B TRAIN (A&B)	ERFCS	DIGITAL	1 SEC	CONTINUOUS
*CVNT ISO (A&B)	CNTMT VENT ISOL TRAIN (A&B)	ERFCS	DIGITAL	10 MSEC	30 SEC/120 SEC
CVNT ISO (A&B)	CNTMT VENT ISOL TRAIN (A&B)	ERFCS	DIGITAL	1 SEC	CONTINUOUS

\*These points will be added to the ERFCS sequence-of-events recorder.

Note: All valves which are actuated by the initiation of a Phase A, Phase B, or Ventilation Isolation signal are monitored and are available on the ERFCS continuous time history recorder with a 1 sec. archival period resolution.

Control Rod Position

Control rod position indication is provided to the Westinghouse P-2500 via the Digital Rod Position Indication System (DRPIS). Upon startup or reboot, the plant computer requests an update of the control rod positions from the DRPIS. After all rod bank positions have been determined, which takes one and one half seconds, the P-2500 continues to monitor one input parameter which gives an indication of rod bank movement. The rod positions are only updated when rod bank movement is indicated. The rod bank movement input parameter has a four millisecond resolution. This signal will be added to the P-2500 sequence-of-events recorder.

## UNIT 1 RADIATION MONITOR

<u>TAG</u> <u>NUMBER</u>	<u>DESCRIPTION</u>	<u>COMPUTER</u>	<u>SIGNAL</u> <u>TYPE</u>	<u>ARCHIVAL</u> <u>PERIOD</u> <u>RESOLUTION</u>	<u>ARCHIVAL</u> <u>PERIOD</u>
1RE6252	LRAM CNIMT EL AREA 860	ERFCS	ANALOG	1 MIN	CONTINUOUS
1RE6250	LRAM CNIMT EL AREA 905	ERFCS	ANALOG	1 MIN	CONTINUOUS
1RE6255	HRRM CNIMT EL AREA 808	ERFCS	ANALOG	1 MIN	CONTINUOUS
1RE6257	LRAM CNIMT ACC HALL 831	ERFCS	ANALOG	1 MIN	CONTINUOUS
1RE5566	CNIMT AIR IODINE	ERFCS	ANALOG	1 MIN	CONTINUOUS
1RE5502	CNIMT AIR PART	ERFCS	ANALOG	1 MIN	CONTINUOUS
1RE5503	CNIMT AIR GAS	ERFCS	ANALOG	1 MIN	CONTINUOUS
1RE6290B	HRRM CNIMT E. WALL	ERFCS	ANALOG	30 SEC	CONTINUOUS
1RE6295	HRRM CNIMT ACC HALL 831	ERFCS	ANALOG	1 MIN	CONTINUOUS
1RE6290A	HRRM CNIMT EL AREA 905	ERFCS	ANALOG	1 MIN	CONTINUOUS



## CONTAINMENT SUMP LEVEL

<u>TAG NUMBER</u>	<u>DESCRIPTION</u>	<u>COMPUTER</u>	<u>SIGNAL TYPE</u>	<u>ARCHIVAL PERIOD RESOLUTION</u>	<u>ARCHIVAL PERIOD</u>
LD/4779	CNTMT SMP 1 (CNTMT WTR) LVL	ERFCS	ANALOG	1 SEC	CONTINUOUS
LD/4781	CNTMT WTR LVL (WR)	ERFCS	ANALOG	1 SEC	CONTINUOUS
LD/5160	CNTMT SMP 1 LVL	ERFCS	ANALOG	1 SEC	CONTINUOUS
LD/5161	CNTMT SMP 2 LVL	ERFCS	ANALOG	1 SEC	CONTINUOUS
LD/5164	RX CAV SMP LVL	ERFCS	ANALOG	1 SEC	CONTINUOUS

## SAFETY INJECTION

<u>TAG NUMBER</u>	<u>DESCRIPTION</u>	<u>COMPUTER</u>	<u>SIGNAL TYPE</u>	<u>ARCHIVAL PERIOD RESOLUTION</u>	<u>ARCHIVAL PERIOD</u>
FD/4772-1A	CSP 1 DISCH FLO	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/4772-2A	CSP 2 DISCH FLO	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/4773-1A	CSP 3 DISCH FLO	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/4773-2A	CSP 4 DISCH FLO	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/618A	RHR FLO TO TRN A	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/619A	RHR FLO TO TRN B	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/918A	SIP 1 DISCH FLO	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/922A	SIP 2 DISCH FLO	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/988	RHR TO HL 2 & 3 INJ FLO	ERFCS	ANALOG	1 SEC	CONTINUOUS
LD/950, LD/951	ACCUM 1 LVL (2)	ERFCS	ANALOG	1 SEC	CONTINUOUS
LD/952, LD/953	ACCUM 2 LVL (2)	ERFCS	ANALOG	1 SEC	CONTINUOUS
LD/954, LD/955	ACCUM 3 LVL (2)	ERFCS	ANALOG	1 SEC	CONTINUOUS
LD/956, LD/957	ACCUM 4 LVL (2)	ERFCS	ANALOG	1 SEC	CONTINUOUS
PD/960 PD/961	ACCUM 1 PRESS (2)	ERFCS	ANALOG	1 SEC	CONTINUOUS
PD/962, PD/963	ACCUM 2 PRESS (2)	ERFCS	ANALOG	1 SEC	CONTINUOUS

## SAFETY INJECTION

<u>TAG NUMBER</u>	<u>DESCRIPTION</u>	<u>COMPUTER</u>	<u>SIGNAL TYPE</u>	<u>ARCHIVAL PERIOD RESOLUTION</u>	<u>ARCHIVAL PERIOD</u>
PD/964, PD/965	ACCUM 3 PRESS (2)	ERFCS	ANALOG	1 SEC	CONTINUOUS
PD/966, PD/967	ACCUM 4 PRESS (2)	ERFCS	ANALOG	1 SEC	CONTINUOUS
*1-SIACT-A, *1-SIACT-B	SI ACT (2)	ERFCS	DIGITAL	10 MSEC	30 SEC/120 SEC

\*These points will be added to the ERFCS sequence-of-events recorder.

## MSIV POSITION

<u>TAG NUMBER</u>	<u>DESCRIPTION</u>	<u>COMPUTER</u>	<u>SIGNAL TYPE</u>	<u>ARCHIVAL PERIOD RESOLUTION</u>	<u>ARCHIVAL PERIOD</u>
*1-HV-2333A, *1-HV-2333A	MSIV 1 (2)	ERFCS	DIGITAL	10 MSEC	30 SEC/120 SEC
*1-HV-2334A, *1-HV-2334A	MSIV 2 (2)	ERFCS	DIGITAL	10 MSEC	30 SEC/120 SEC
*1-HV-2335A, *1-HV-2335A	MSIV 3 (2)	ERFCS	DIGITAL	10 MSEC	30 SEC/120 SEC
*1-HV-2336A, *1-HV-2336A	MSIV 4 (2)	ERFCS	DIGITAL	10 MSEC	30 SEC/120 SEC

\*These points will be added to the ERFCS sequence-of-events recorder.



## FEEDWATER FLOW

<u>TAG NUMBER</u>	<u>DESCRIPTION</u>	<u>COMPUTER</u>	<u>SIGNAL TYPE</u>	<u>ARCHIVAL PERIOD RESOLUTION</u>	<u>ARCHIVAL PERIOD</u>
FD-510	STM GEN 1 FEED WTR IN 1 F	P-2500	ANALOG	10 SEC	2 MIN/3 MIN
FD-511	STM GEN 1 FEED WTR IN 2 F	P-2500	ANALOG	10 SEC	2 MIN/3 MIN
FD-520	STM GEN 2 FEED WTR IN 1 F	P-2500	ANALOG	10 SEC	2 MIN/3 MIN
FD-521	STM GEN 2 FEED WTR IN 2 F	P-2500	ANALOG	10 SEC	2 MIN/3 MIN
FD-530	STM GEN 3 FEED WTR IN 1 F	P-2500	ANALOG	10 SEC	2 MIN/3 MIN
FD-531	STM GEN 3 FEED WTR IN 2 F	P-2500	ANALOG	10 SEC	2 MIN/3 MIN
FD-540	STM GEN 4 FEED WTR IN 1 F	P-2500	ANALOG	10 SEC	2 MIN/3 MIN
FD-541	STM GEN 4 FEED WTR IN 2 F	P-2500	ANALOG	10 SEC	2 MIN/3 MIN

NOTE: Feedwater flow is not utilized as a trip parameter at CPSES. Feedwater flow is presently a monitored analog parameter on the P2500 time history recorder. Since feedwater flow is not utilized as trip parameter and is presently monitored by acceptable means, it is not felt that the addition of these points to the sequence-of-events recorder is required or justified.

## STEAM FLOW

<u>TAG NUMBER</u>	<u>DESCRIPTION</u>	<u>COMPUTER</u>	<u>SIGNAL TYPE</u>	<u>ARCHIVAL PERIOD RESOLUTION</u>	<u>ARCHIVAL PERIOD</u>
FD/513A	SG 1 STM FLO	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/523A	SG 2 STM FLO	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/533A	SG 3 STM FLO	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/543A	SG 4 STM FLO	ERFCS	ANALOG	1 SEC	CONTINUOUS

NOTE: Steam flow is not utilized as a trip parameter at CPSES. Steam flow is presently a monitored analog parameter on the ERFCS continuous time history recorder and is also recorded on a control board chart recorder. Since steam flow is not utilized as a trip parameter and is presently monitored by acceptable means, it is not felt that the addition of these points to the sequence-of-events recorder is required or justified.

## AUX. FEEDWATER SYSTEM; FLOW, PUMP/VALVE STATUS

<u>TAG NUMBER</u>	<u>DESCRIPTION</u>	<u>COMPUTER</u>	<u>SIGNAL TYPE</u>	<u>ARCHIVAL PERIOD RESOLUTION</u>	<u>ARCHIVAL PERIOD</u>
FD/2463A, FD/2463B	SG 1 AFW FLO (2)	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/2464A, FD/2464B	SG 2 AFW FLO (2)	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/2465A, FD/2465B	SG 3 AFW FLO (2)	ERFCS	ANALOG	1 SEC	CONTINUOUS
FD/2466A, FD/2466B	SG 4 AFW FLO (2)	ERFCS	ANALOG	1 SEC	CONTINUOUS

## AC AND DC SYSTEM STATUS (BUS VOLTAGE)

<u>TAG NUMBER</u>	<u>DESCRIPTION</u>	<u>COMPUTER</u>	<u>SIGNAL TYPE</u>	<u>ARCHIVAL PERIOD RESOLUTION</u>	<u>ARCHIVAL PERIOD</u>
E3 (Y0325D)	UNIT ON LINE TIE SF6 E3 BKR	P-2500	DIGITAL	4 MS	30 SEC/120 SEC
W3 (Y0336D)	UNIT ON LINE TIE SF6 W3 BKR	P-2500	DIGITAL	4 MS	30 SEC/120 SEC
40-1/1G+60/1	TURB CH 1 GEN FIELD TOTAL LOSS	P-2500	DIGITAL	4 MS	30 SEC/120 SEC
40TZ	TURB CH 2 GEN FIELD PARIAL LOSS	P-2500	DIGITAL	4 MS	30 SEC/120 SEC
VXD-1G-PHAB	GEN 1G PH AB VOLTAGE	P-2500	ANALOG	10 SECS	2 MIN/3 MIN
VXD-1G-PHAC	GEN 1G PH BC VOLTAGE	P-2500	ANALOG	10 SECS	2 MIN/3 MIN
VXD-1G-PHAA	GEN 1G PH CA VOLTAGE	P-2500	ANALOG	10 SECS	2 MIN/3 MIN
AXD-1G-PHA	GEN 1G PH A CURRENT	P-2500	ANALOG	10 SECS	2 MIN/3 MIN
AXD-1G-PHB	GEN 1G PH B CURRENT	P-2500	ANALOG	10 SECS	2 MIN/3 MIN
AXD-1G-PHC	GEN 1G PH C CURRENT	P-2500	ANALOG	10 SECS	2 MIN/3 MIN
V/1EA1-1	BUS 1 EA 1 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1EA2-1	BUS 1 EA 2 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1EB1	480 V SWGR 1 EB 1 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1EB2	480 V SWGR 1 EB 2 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1EB3	480 V SWGR 1 ER 3 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1EB4	480 V SWGR 1 ER 4 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1EC1	118 VAC DP 1 EC 1 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1EC2	118 VAC DP 1 EC 2 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1EC3	118 VAC DP 1 EC 3 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS



## AC AND DC SYSTEM STATUS (BUS VOLTAGE)

<u>TAG NUMBER</u>	<u>DESCRIPTION</u>	<u>COMPUTER</u>	<u>SIGNAL TYPE</u>	<u>ARCHIVAL PERIOD RESOLUTION</u>	<u>ARCHIVAL PERIOD</u>
V/1EC4	118 VAC DP 1 EC 4 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1EC5	118 VAC DP 1 EC 5 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1EC6	118 VAC DP 1 EC 6 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1ED1	BATT BT 1 ED 1 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1ED3	BATT BT 1 ED 3 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1ED4	BATT BT 1 ED 4 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1ED2	125V DC BUS 1 ED 2 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1PC1	118 VAC RPS I DP 1 PC 1 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1PC2	118 VAC RPS II DP 1 PC 2 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1PC3	118 VAC RPS III DP 1 PC 3 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS
V/1PC4	118 VAC RPS IV DP 1 PC 4 VOLT	ERFCS	ANALOG	1 SEC	CONTINUOUS

## PORV POSITION

<u>TAG NUMBER</u>	<u>DESCRIPTION</u>	<u>COMPUTER</u>	<u>SIGNAL TYPE</u>	<u>ARCHIVAL PERIOD RESOLUTION</u>	<u>ARCHIVAL PERIOD</u>
*PCV-455A	PRZR PORV	ERFCS	DIGITAL	10 MSEC	30 SEC/120 SEC
*PCV-456	PRZR PORV	ERFCS	DIGITAL	10 MSEC	30 SEC/120 SEC

\*These points will be added to the ERFCS sequence-of-events recorder.

ATTACHMENT 2

## ATTACHMENT 2

<u>Abbreviations</u>	<u>Definitions</u>
A/F	- Active Face
ABS	- Absolute
AUX	- Auxiliary
BKR	- Breaker
BOT	- Bottom
BRG	- Bearing
BUSH	- Bushing
CAUS RE	- Causes Reactor Trip
CCW	- Component Cooling Water
CH	- Chanel
CHAN	- Chanel
CIRC	- Circulating
CKT	- Circuit
CLR	- Cooler
COND	- Condensor
CONT	- Content
CONTAINM	- Containment
CONTR	- Control
COOL	- Cooling
DET	- Detector
DISCH	- Discharge
DRN	- Drain
DSL	- Diesel
DT	- Temperature Difference (Delta T)
EXC	- Exciter
EXH	- Exhaust
F	- Flow
FREQ	- Frequency
FW	- Feedwater
GEN	- Generator
HDR	- Header
HI	- High
HP	- High Pressure



<u>Abbreviations</u>	<u>Definitions</u>
HTR	- Heater
HX	- Heat Exchanger
H2	- Hydrogen
I/F	- Inactive Face
IN	- Inlet
INJ	- Injection
INTERM	- Intermediate
L	- Level
LO	- Low
LOG	- Logarithmic
LP	- Low Pressure
LVL	- Level
MSR	- Moisture Separator and Reheater
MTL	- Metal
MTR	- Motor
MVAR	- Megavar
MW	- Megawatts
NAR	- Narrow
N16	- Nitrogen 16
OUT	- Outlet
OUTL	- Outlet
OVERPWR	- Overpower
OVERTEMP	- Overtemperature
P	- Pressure
PART RE	- A signal necessary but not sufficient to cause a reactor trip.
PH	- Phase
PMP	- Pump
PRIM	- Primary
PW	- Primary Water
PWR	- Power
P7	- At Power Permissive Switch
P8	- 3-Loop Flow Permissive Switch
Q	- Power

<u>Abbreviations</u>	<u>Definitions</u>
QUAD	- Quadrant of Core
RC	- Reactor Coolant
RCL	- Reactor Coolant Loop
RCP	- Reactor Coolant Pump
RCTR	- Reactor
REAC	- Reactor
RECT	- Rectifier
REM	- Remote
RNG	- Range
RT	- Rotor
S/B	- Standby
SG	- Steam Generator
SI	- Safety Injection
SIS	- Safety Injection Signal
SP	- Setpoint
SSW	- Site Service Water
ST	- Station
STM	- Steam
T	- Temperature
T-G	- Turbine Generator
TB	- Turbine
TERM	- Terminal
THR	- Thrust
TP	- Turbine Plant
TPCW	- Turbine Plant Cooling Water
TR	- Trip or Transfer
TRANSF	- Transformer
TURB	- Turbine
UT	- Unit Transformer
VIBR	- Vibration
VLV	- Valve
VOLT	- Voltage
WIND	- Windings

<u>Abbreviations</u>	<u>Definition</u>
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WTR	- Water
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ATTACHMENT 3



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COMANCHE PEAK STEAM ELECTRIC STATION

DICTIONARY OF ACRONYMS AND ABBREVIATIONS

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
ABORT	ABORT
ABOVE	ABOVE
ABSOLUTE	ABS
ACCELERATION	ACCEL
ACCESS	ACC
ACCIDENT	ACCID
ACCUMULATOR	ACCUM
ACKNOWLEDGE	ACK
ACTUAL PRESSURE	PACTUAL
ACTUATE/ACTUATION	ACT
ADAPTER	ADPTR (*ADT)
ADDITION/ADDITIVE	ADD
ADMISSION	ADM
ADVANCE	ADV
AFTER	AFT
AFTERCOOLER	AFTCLR
AFTER FILTER	AFTFILT
AIR CONDITIONING	A\C
AIR EXHAUST	AEXH
AIR HANDLING UNIT	AHU
AIR INTAKE AND EXHAUST SYSTEM	AIES

\*To be used for valve tagging only

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
AIRBORNE	AIRB
AIR-OPERATED VALVE	AOV
ALARM	ALM
ALTERNATE/ALTERNATOR	ALT
ALTERNATE ACCESS POINT	AAP
ALTERNATING CURRENT	AC
AMBIENT	AMB
AMMETER	AMM
AMPERE	AMP
AMPLIFIER	AMPL
ANALYZER	ANAL
ANNUNCIATOR	ANN
ANNUNCIATOR ALARM BOX	ALB
ANTICIPATED TRANSIENT WITHOUT TRIP	ATWT
AREA	AREA
AREA RADIATION MONITOR	ARM
ASSEMBLY	ASSY
ASSOCIATED	ASSOC
ATMOSPHERE/ATMOSPHERIC	ATMOS
ATTACHMENT	ATTACH
AUCTIONEERED	AUCT
AUTOMATIC	AUTO

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
AUXILIARY	AUX
AUXILIARY BOILER	AUX BLR
AUXILIARY BUILDING	AB
AUXILIARY FEEDWATER	AFW
AUXILIARY FEEDWATER PUMP	AFWP
AUXILIARY FEEDWATER PUMP TURBINE	AFWPT
AUXILIARY FEEDWATER SYSTEM	AFWS
AUXILIARY PANEL	AUX PNL
AUXILIARY STEAM	AUX STM
AUXILIARY TRANSFORMER	AUX XFMR
AVAILABLE	AVAIL
AVERAGE	AVE
AVERAGE TEMPERATURE	T <sub>AVE</sub>



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NOMENCLATURE	RECOMMENDED ABBREVIATION
BACK	BK
BACKUP	BU
BACKWASH	BW
BALANCE	BAL
BALANCE of PLANT	BOP
BARRIER	BARR
BATCHING	BATCH
BATTERY	BATT
BEARING	BRG
BED	BED
BEGINNING OF LIFE	BOL
BELOW	BELOW
BENBROOK	BENBROOK
BLEED	BLD
BLENDER	BLNDR
BLOCK/BLOCKED	BLK
BLOWDOWN	BLDN
BLOWER	BLWR
BLUE	BLUE
BOARD	BD
BOILER	BLR
BOILER AND PRESSURE VESSEL	B&PV



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
BOILER FEEDWATER	BFW
BOILER FEEDWATER PUMP	BFWP
BOOSTER	BSR
BORATE	BORATE
BORIC ACID	BA
BORIC ACID TANK	BA TK (*BAT)
BORON	BORON
BORON CONCENTRATION MONITORING SYSTEM	BCMS
BORON RECYCLE SYSTEM	BRS
BORON THERMAL REGENERATION SYSTEM	BTRS
BOTTLE	BTL
BOTTOM	BOT
BOX	BOX
BRANCH	BRNCH
BREAKER	BKR
BRUSH	BRSH
BUILDING	BLDG
BUS	BUS
BUSHING	BSH
BYPASS	BYP

\*To be used for valve tagging only

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE

RECOMMENDED ABBREVIATION

BYPASS CONTROL VALVE

BCV

BYPASS STOP AND CONTROL VALVE

BSCV

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
CABINET	CAB
CABLE	CBL
CABLE SPREADING ROOM	CSR
CALIBRATION/CALIBRATE	CAL
CANAL	CNL
CARBON DIOXIDE	CO2
CARBON MONOXIDE	CO
CARRIER	CARR
CARTRIDGE	CART
CASING	CSG
CATALYST	CTLST
CATHODE RAY TUBE	CRT
CATION	CAT
CAVITY	CAV
CEILING	CELL
CEMENT	CMNT
CENTER	CTR
CENTIGRADE	C
CENTRIFUGAL	CENT
CENTRIFUGAL CHARGING PUMP	CCP
CHAMBER	CHMBR
CHANGE	CHNG

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
CHANNEL	CHAN
CHARCOAL	CHAR
CHARGER/CHARGING	CHRG
CHECK	CHK
CHEMICAL	CHEM
CHEMICAL ADDITION TANK	CHEM ADD TK
CHEMICAL FEED	CHEM FD
CHEMICAL VOLUME CONTROL SYSTEM	CVCS
CHEMICAL WASTE	CHEMWST
CHILLED WATER	CH WRT
CHILLER	CHLR
CHLORINE/CHLORINATION	CL2
CIRCUIT	CKT
CIRCULATING WATER PUMP	CWP
CIRCULATING WATER/CIRCULATING WATER SYSTEM	CWS
CIRCULATING/CIRCULATION	CIRC
CLEANER	CLNR
CLEANUP	CLN UP
CLEANOUT	CLN OUT
CLEARWELL	CLWL
CO-CURRENT WASTE	COW
CLOSED CIRCUIT	CLSD CKT



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
CLOSED/CLOSURE	CLOSE
COLD	CLD
COLD LEG	CL
COLD LEG TEMPERATURE	TC
COMBINED	COMB
COMBUSTIBLE	CMBST
COMMON	COMM
COMPARTMENT	COMPT
COMPENSATING	CMPSATING
COMPLEX	CMPLX
COMPONENT	COMP
COMPONENT COOLING WATER	CCW
COMPONENT COOLING WATER PUMP	CCWP
COMPONENT COOLING WATER SYSTEM	CCWS
COMPRESSOR	COMPR
COMPUTER	CMPTR
CONCENTRATION/CONCENTRATED	CONC
CONDENSATE	CNDS
CONDENSATE POLISHING	CNDS POL (*CP)
CONDENSATE POLISHING REGENERATION	CPR
CONDENSATE STORAGE TANK	CST
CONDENSATE STORAGE TANK BUILDING	CST BLDG



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
* CONDENSATE TRANSFER PUMP	CTP
CONDENSER	CNDSR
CONDITIONER/CONDITION	COND
CONDUCTIVITY	CNDCT
CONFIRMED	CONF
CONNECTION/CONNECTOR	CONN
CONTAINMENT	CNTMT
CONTAINMENT COOLING SYSTEM	CCS
CONTAINMENT ISOLATION	CNTMT ISOL
CONTAINMENT PREENTRY PURGE SYSTEM	CPPS
CONTAINMENT PREENTRY PURGE MAKEUP	CPPMU
CONTAINMENT SPRAY ACTUATION SIGNAL	CSAS
CONTAINMENT SPRAY PUMP	CSP
* CONTAINMENT SPRAY PUMP	CTP
CONTAINMENT SPRAY	CS
CONTAINMENT VENT HEADER	CVH
CONTAMINATION	CONTAM
CONTROL BOARD	CB
CONTROL FLUID	CF
CONTROL ROD DRIVE	CRD
CONTROL ROD DRIVE MECHANISM	CRDM

\*To be used for valve tagging only

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
CONTROL ROD DRIVE SYSTEM	CRDS
CONTROL ROOM	CR
CONTROL SWITCH	CTRL SW
CONTROL VALVE	CV
CONTROL	CTRL
CONTROLLER	CTRLR
CONVECTION	CONVC
CONVERTER	CONV
COOLANT/COOL	COOL
COOLDOWN	COOLDN
COLLECTING/COLLECTOR/COLLECTION	COLL
COOLER	CLR
COOLING	CLG
CORRIDOR	CORR
COUNT/COUNTER	COUNT
COUNTS PER SECOND	CPS
COUPLING	CPLG
CRANKCASE	CKCS
CRITICAL	CRIT
CROSS TIE	XTIE

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
CROSSOVER	XOVER
CUBIC FEET PER MINUTE	CFM
CYLINDER	CYL

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE

RECOMMENDED ABBREVIATION

DAMPER	DMPR
DEAERATOR	DEAER
DECADES PER MINUTE	DPM
DECAY	DCAY
DECONTAMINATE/DECONTAMINATION	DECONTAM
DECORDOVA	DECOR
DEFEAT	DEF
DEGREES	DEG (°)
DELETE	DLET
DELTA	Δ
DELUGE	DELUGE
DEMINERALIZED WATER STORAGE TANK	DWST
DEMINERALIZED WATER SYSTEM	DWS
DEMINERALIZER	DEMIN
DEPRESSURIZE/DEPRESSURIZER	DEPRZR
DESICCATION	DESIC
DETECTED/DETECTION/DETECTOR	DET
DEVIATION	DEV
DEW POINT	DEWPT
DIAPHRAGM	DIAPH
DIESEL	DIESEL
DIESEL ENGINE	DE



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
DIESEL GENERATOR	DG
DIESEL GENERATOR BUILDING	DG BLDG
DIESEL GENERATOR FUEL OIL	DGFO
DIFFERENTIAL	DIFF
DIFFERENTIAL PRESSURE	Δ P
DIFFERENTIAL TEMPERATURE	Δ T
DIFFUSER	DFUSR
DIGITAL	DGTL
DIGITAL ROD POSITION INDICATION	DRPI
DIGITAL RADIATION MONITORING SYSTEM	DRMS
DILUTE/DILUTION	DIL
DIRECT CURRENT	DC
DISCHARGE	DISCH
DISCONNECT	DISC
DISPLACEMENT/DISPLACE	DISPLACE
DISPOSAL	DSPL
DISSOLVED	DSLVD
DISTILLATE	DISTL
DISTRIBUTION/DISTRIBUTE	DISTR
DIVERT/DIVERSION	DIVERT
DIVISION	DIV
DOMESTIC	DOM



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NOMENCLATURE	RECOMMENDED ABBREVIATION
DOUBLING	DBLG
DOWN	DN
DOWNSTREAM	DNSTRM
DRAIN	DRN
DRAINPOT	D\POT (*DPOT)
DRIP	DRIP
DRIVE	DRV
DRIVEN	DRVN
DRYER	DRYR
DRYWELL	DRWL
DUMP	DMP
DUPLEX	DPLX

\*To be used for valve tagging only

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
EAST	E.
ECCENTRICITY	ECCEN
ECONOMIXER	ECON
EDUCTOR	EDUCT
EFFLUENT	EFL
EFFLUENT CHEMICAL TREATMENT SYSTEM	ECTS
EFFLUENT FILTER	EFLTR
EFFLUENT TREATMENT SYSTEM	ETS
EJECTOR	EJEC
ELECTRICAL INDICATOR	EI
ELECTRIC/ELECTRICAL	ELEC
ELECTRICAL AND CONTROL BUILDING	ECB
ELECTROHYDRAULIC CONTROL	EHC
ELECTROHYDRAULIC CONTROL FLUID	EHC FLUID
ELEVATION/ELEVATOR	EL
EMERGENCY	EMER
EMERGENCY BUS	EB
EMERGENCY CORE COOLING SYSTEM	ECCS
EMERGENCY EXHAUST SYSTEM	EES
EMERGENCY OIL PUMP	EOP
EMERGENCY RESPONSE FACILITY	ERF
ENCLOSURE	ENCL

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
END OF LIFE	EOL
ENGAGE/ENGAGED	ENG
ENGINE	ENG
ENGINEERED SAFETY FEATURE	ESF
ENTER/ENTERING	ENT
ENVIRONMENT	ENVRMT
EQUILIZING/EQUILIZATION	EQUAL (*EQL)
EQUIPMENT	EQUIP
EQUIPMENT AND FLOOR DRAIN SYSTEM	EFDS
EQUIPMENT DRAIN TANK	EDT
ESSENTIAL	ESSEN
EVALUATION	EVAL
EVAPORATOR/EVAPORATION	EVAP
EXCESS/EXCESSIVE	XS
EXCESS LETDOWN	XS LTDN
EXCHANGE	XCHG
EXCITATION	EXCITATION
EXCITER	EXCITER
EXHAUST	EXH
EXPANSION	EXP

\*To be used for valve tagging only

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE

RECOMMENDED ABBREVIATION

EXTRA

XTRA

EXTRACTION STEAM

ES



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
FAHRENHEIT	F
FAILURE	FAIL
FALSE	FALSE
FAN	FN
FEED	FD
FEEDWATER PREHEATER BYPASS VALVE	FWPBV
FEEDWATER BYPASS TEMPERING LINE	FWPTL
FEEDWATER BYPASS TEMPERING VALVE	FWBTV
FEEDWATER PUMP TURBINE	FWPT
FEEDER	FDR
FEEDWATER	FW
FEEDWATER ISOLATION BYPASS VALVE	FWIBV
FEEDWATER ISOLATION VALVE	FWIV
FEEDWATER PUMP	FWP
FEEDWATER PUMP TURBINE OIL TANK	FWPTOT
FEEDWATER SPLIT FLOW BYPASS VALVE	FSBV
FEEDWATER SYSTEM	FWS
FIELD	FLD
FILTER/FILTRATION	FILT
FIRE PROTECTION	FP
FIRE SUPPRESSION	FIRSUP
FIRE SUPPRESSION PUMP	FIRSUPP



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE

RECOMMENDED ABBREVIATION

FLAME	FLM
FLANGE	FLANGE
FLASH	FLSH
FLOOR	FLR
* FLOOR DRAIN	FD
FLOOR DRAIN TANK	FDT
FLOW	FLO
FLOW CONTROL VALVE	FCV
FLOW INDICATOR	FI
FLUSH	FLSH
FLUX	FLUX
FOOT/FEET	FT
FORMAT	FORM
FREEZE	FRZE
FREQUENCY	FREQ
FRONT	FRNT
FROM	FM
FUEL BUILDING	FB
FUEL OIL	FO
FUEL TRANSFER SYSTEM	FTS
FULL LENGTH ROD MOTION	FLRM

\*To be used for valve tagging only

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# DICTIONARY OF ACRONYMS AND ABBREVIATIONS

## NOMENCLATURE

FULLERS EARTH

FUNCTION/FUNCTIONAL

## RECOMMENDED ABBREVIATION

FLRRTH

FUNC

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
GALLONS PER MINUTE	GPM
GAS	GAS
GAS ANALYZER RACK	GAR
GAS DECAY TANK	GDT
GASEOUS WASTE PROCESSING SYSTEM	GWPS
GENERATOR	GEN
GLAND	GLND
GLAND STEAM	GS
GLAND STEAM CONDENSER	GSC
GLAND STEAM EXHAUSTER	GSE
GOVERNOR	GOV
GRADIENT	GRAD
GREATER THAN	>
GREATER THAN OR EQUAL TO	$\geq$
GREEN	GRN
GROSS FAILED FUEL DETECTOR	GFFD
GROSS FAILED FUEL MONITOR	GFFM
GROUND	GND
GROUP/GROUPS	GRP

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
HALON	HALON
HAND CONTROLLER	HC
HAND SWITCH	HS
HEAD	HEAD
HEADER	HDR
HEAT EXCHANGER	HX
HEATER DRAIN PUMP	HDP
HEATER DRAIN TANK	HDT
HEATER/HEATERS	HTR/HTRS
HEATING	HTG
HEATING AND VENTILATION	H&V
HEATING, VENTILATION, AIR CONDITIONING	HVAC
HERTZ	HZ
HIGH	HI
HIGH EFFICIENCY PARTICULATE AIR	HEPA
HIGH PRESSURE	HP
HIGH PRESSURE HEATER	HPH
HIGH PRESSURE SAFETY INJECTION	HPSI
HIGH PRESSURE TURBINE	HPT
HOLD/HOLDING	HLD
HOLDUP TANK	HUT
HORIZONTAL	HORIZ



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
HOT	HOT
HOT LEG	HL
HOT LEG TEMPERATURE	TH
HOT SHUTDOWN PANEL	HSP
HOT WELL	HTWL
HOURL	HR
HOUSE/HOUSING	HOUSE
HUMIDITY	HUM
HYDRAULIC	HYD
HYDRAZINE	N <sub>2</sub> H <sub>4</sub>
HYDROGEN	H <sub>2</sub>
HYDROGEN ION CONCENTRATION	PH
HYPERCHLORIDE/HYPERCHLORINATED	HYPCHL



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
IMPULSE	IMP
INACTIVE	INACT
INBOARD	INBD
INCHES OF MERCURY	IN HG
INCOMING	INCM
INCOMING VOLTAGE	V-IN
INDICATOR	IND
INDIVIDUAL	INDIV
INFLUENT	INFL
INFORMATION	INFO
INITIATE/INITIATED/INITIAL	INIT
INJECTION	INJ
INLET	IN
INOPERABLE/INOPERATIVE	INOP
INPUT	INPT
INSERT/INSERTION	INSRT
INSIDE MISSILE BARRIER	IMB
INSIDE REACTOR CONTAINMENT	IRC
INSIDE REACTOR TEMPERATURE	IRT
INSPECTION	INSPECT
INSTRUMENT	INSTR (*INST)

\*To be used for valve tagging only

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
INSTRUMENTATION AND CONTROL	I & C
INTAKE	INTK
INTERLOCK	INTLK
INTERMEDIATE	INTERM
INTERMEDIATE PRESSURE	IP
INTERMEDIATE RANGE	IR
INTERMEDIATE RANGE MONITOR	IRM
INTERRUPT	INTRPT
INVERT	INV
ION EXCHANGER	IX
IONIZATION/IONIZE/ION	ION
ISOLATION/ISOLATOR	ISOL
ISOLATED PHASE	ISO PHASE

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE

RECOMMENDED ABBREVIATION

JACKET

JKT

JOINT

JT

JOCKEY PUMP

JOCK PMP

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
KEYBOARD	KEYBD
KILOVARS	KVAR
KILOVOLT	KV
KILOVOLT-AMPERE	KV-A
KILOVOLT-AMPERE HOUR	KV-AH
KILOWATT	KW
KILOWATT HOUR	KWH
KITCHEN	KTCHN



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
LAUNDRY	LNDRY
LAUNDRY & HOT SHOWER TANK	LHST
LAUNDRY HOLDUP & MONITOR TANK	LHMT
LAUNDRY WATER HEAD TANK	LWHT
LEADING EDGE FLOW METER	LEFM
LEAK	LK
LEAK DETECTION SYSTEM	LDS
LEAKOFF	LKOFF
LEAVING	LVG
LEG	LEG
LESS THAN	<
LESS THAN OR EQUAL TO	≤
LETDOWN	LTDN
LEVEL	LVL
LEVEL CONTROL VALVE	LCV
LEVEL INDICATOR	LI
LEVEL RECORDER	LRCDR
LIGHT	LITE
LIMIT	LMT
LIMITED	LTD
LINE	LN
LINEUP	L\U



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
LIQUID	LIQ
LIQUID RADWASTE	LR
LIQUID RADWATES TREATMENT SYSTEM	LRTS
LIQUID WASTE PROCESSING SYSTEM	LWPS
LOAD TAP CHANGE	LTC
LOCAL	LOC
LOCAL POWER RANGE MONITOR	LPRM
LOCKER	LCKR
LOCKOUT	LCKOUT
LOCKOUT RELAY	LOR
LOGARITHM OF	LOG
LOOP	LOOP
LOSS-OF-COOLANT ACCIDENT	LOCA
LOOSE PARTS MONITORING SYSTEM	LPMS
LOSS OF LOAD	LOADLOSS
LOSS OF POWER	PWRLOSS
LOSS OF VOLTAGE	VOLTLOSS
LOW	LO
LOWER	LOW
LOW PRESSURE	LP
LOW PRESSURE CONTROL VALVE	LPCV

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# DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
LOW PRESSURE HEATER	LPH
LOW PRESSURE SAFETY INJECTION	LPSI
LOW PRESSURE STOP VALVE	LPSV
LOW PRESSURE TURBINE	LPT
LOW VOLUME WASTE	LVW
LUBE	LUBE
LUBE OIL	L/O
LUBE WATER	L/W
LUBRICATION/LUBE	LUBE

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NOMENCLATURE	RECOMMENDED ABBREVIATION
MAGNETIC	MAG
MAIN	MN
MAIN CONDENSER EVACUATION SYSTEM	MCES
MAIN CONTROL BOARD	MCB
MAIN CONTROL VALVE	MCV
MAIN DRAIN	MN DRN
MAIN OIL PUMP	MOP
MAIN STEAM	MS
MAIN STEAM ISOLATION BYPASS VALVE	MSIBV
MAIN STEAM ISOLATION VALVE	MSIV
MAIN STEAM LINE	MSL
MAIN STEAM STRAINER	MS STRN
MAIN STEAM VALVE	MSV
MAIN TRANSFORMER	MN XFRM
MAIN TURBINE	MT
MAIN TURBINE OIL TANK	MTOT
MAINTENANCE	MAINT
MAKEUP	MU
MAKEUP DEMINERALIZER	MUD
MAKEUP/REJECTION	MU/REJ
MAKEUP WATER	MUW
MAKEUP WATER STORAGE TANK	MUWST



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NOMENCLATURE	RECOMMENDED ABBREVIATION
MAKEUP WATER SYSTEM	MUWS
MANIFOLD	MNFLD
MANUAL	MAN
MANUAL/AUTOMATIC	M/A
MASTER	MASTR
MAXIMUM	MAX
MEASURE	MEAS
MECHANICAL	MECH
MEGAVAR HOURS	MVARH
MEGAVARS	MVAR
MEGAWATT	MW
MEGAWATT HOURS	MWH
MERCURY	HG
METAL	MTL
METER	MTR
METERING TANK	MT
MICRO	MICRO
MICROWAVE	MCWV
MIDDLE OF LIFE	MOL
MILLAMPERE	MA
MILLIVOLT	MV
MINIMUM	MIN

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NOMENCLATURE	RECOMMENDED ABBREVIATION
MINIMUM FLOW	MINIFLO
MISCELLANEOUS	MISC
MIX	MIX
MODULATOR/MODERATING	MOD
MOISTURE	MOIST
MOISTURE SEPARATOR REHEATER	MSE
MOISTURE SEPARATOR REHEATER DRAIN TANK	MSR DRN TK
MONITOR	MON
MOTOR	MOT
MOTOR CONTROL CENTER	MCC
MOTOR DRIVEN	MD
MOTOR GENERATOR	MG
MOTOR OPERATED	MO
MOTOR OPERATED VALVE	MOV



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
NEGATIVE	NEG
NET POSITIVE SUCTION HEAD	NPSH
NEUTRON	NEUT (Control Room)
NEUTRALIZATION	NEUT (LVW Panel)
NIL DUCTILITY TRANSITION TEMPERATURE	NDTT
NITROGEN	N2
NONNUCLEAR SAFETY	NNS
NON-CRITICAL	NON-CRIT
NON-ESSENTIAL	NON-ESSEN
NON-SAFEGUARD	NON-SFGD
NON-SAFETY	N/S
NORMAL	NORM
NORMAL SUPPLY SYSTEM	NORSS
NORTH	N.
NOZZLE	NZL
NUCLEAR	NUC
NUCLEAR INSTRUMENTATION SYSTEM	NIS
NUCLEAR REGULATORY COMMISSION	NRC
NUCLEAR STEAM SUPPLY SYSTEM	NSSS
NUMBER	NUM

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
OBSERVATION	OBSERVE
OFF	OFF
OPEN	OPEN
OPERATING/IN OPERATION/OPERABLE	OPER
OPERATING BASE EARTHQUAKE	OBE
OPERATIONS SUPPORT CENTER	OSC
ORIFICE	ORIF
OUTBOARD	OUTBD
OUTLET	OUT
OUTPUT	OUTPT
OUTSIDE	OUTSD
OUTSIDE AIR	O/A
OUTSIDE AIR INTAKE	OAI
OUTSIDE MISSILE BARRIER	OMB
OUTSIDE REACTOR CONTAINMENT	ORC
OVER	OVR
OVER TEMPERATURE	OT
OVER TEMPERATURE DIFFERENTIAL TEMPERATURE	OT Δ T
OVERCURRENT	OVRCURRENT
OVERFLOW	OVRFLO
OVERLAY	OVRLY
OVERLOAD	OVRLOAD

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
OVERPOWER	OP
OVERPOWER DIFFERENTIAL TEMPERATURE	OP $\Delta$ T
OVERRIDE	OVRRIDE
OVERSPEED	OVRSPD
OVERVOLTAGE	OVRVOLT
OXYGEN	O2

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
PACKING/PACKAGE	PKG
PANEL	PNL
PARTICULATE	PART
PARTS PER MILLION	PPM
PEDESTAL	PED
PENETRATION	PENET
PERCENT	%, PCT
PERMIT/PERMISSIVE	PERM
PERSONNEL	PERS
pH (HYDROGEN ION CONCENTRATION)	PH
PHASE	PHASE
PIPE CHASE	PIPE CHS
PIPE TUNNEL	PIPE TUNL
PLANNED MAINTENANCE SYSTEM	PMS
PLANT	PLT
PLANT ADMINISTRATIVE PROCEDURES	SAP
PLENUM	PLNM
PNEUMATIC	PNEU
POINT	PNT
POLISH	POL
POLISHER	POLR
POSITION	POSN



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
POSITIVE	POS
POSITIVE DISPLACEMENT	PD
POSITIVE DISPLACEMENT PUMP	PDP
POSTACCIDENT MONITORING INSTRUMENTATION	PAMI
POSTACCIDENT SAMPLING SYSTEM	PASS
POTABLE AND SANITARY WATER SYSTEM	PSWS
POTENTIAL TRANSFORMER	PT
POTENTIAL/POTENTIOMETER	POT
POUND	LB
POUNDS	LBS
POUNDS PER HOUR	LB/HR
POUNDS PER SQUARE INCH DIFFERENTIAL	PSID
POUNDS PER SQUARE INCH GAUGE	PSIG
POUNDS PER SQUARE INCH ABSOLUTE	PSIA
POWDEX/SPENT POWDEX	PWDX
POWER	PWR
POWER OPERATED RELIEF VALVE	PORV
POWER RANGE	PR
PREACCESS	PREACC
PREACTION	PREACT
PRECOAT	PC
PREFERRED	PREF

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
PREFILTER	PREFILT
PREHEATER	PREHTR
PREPARE/PREPARATION	PREP
PRESSURE	PRESS
PRESSURE CONTROL VALVE	PCV
PRESSURE INDICATOR	PI
PRESSURE INDICATOR CONTROLLER	PIC
PRESSURE RECORDER	PRCDR
PRESSURIZATION	PRZN
PRESSURIZER	PRZR
PRESSURIZER RELIEF TANK	PRT
PREVIOUS	PREV
PRIMARY/*PRIMING	PRI
PRIMARY ACCESS POINT	PAP
PRIMARY DRAIN	PRI DRN
PRIMARY MAKEUP SYSTEM	PMUS
PRIMARY SAMPLING COOLER	PSC
PRIMARY WATER STORAGE TANK	PWST
PRINTER	PRTR
PROCESS RADIATION MONITOR	PRM
PROCESS SAMPLING SYSTEM	PSS

\*To be used for valve tagging only

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
PRODUCT	PROD
PROPORTION	PROP
PROTECTIVE/PROTECTION	PROT
PUBLIC ADDRESS (SYSTEM)	PA
PULVERIZER	PULV
PUMP	PMP
PUMPHOUSE	PMPHOUS
PURGE	PRG
PURIFICATION	PURIF
PROCESS/PROCESSOR/PROCEDURE	PROC

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
QUALITY ASSURANCE	QA
QUALITY CONTROL	QC



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
RADIAL	RDL
RADIATION MONITOR	RAD MON
RADIATION MONITORING SYSTEM	RMS
RADIATION/RADIOACTIVITY	RAD
RADIOACTIVE WASTE	RADWSTE
RANGE	RNG
REACTOR	RX
REACTOR CONTROL AND PROTECTION SYSTEM	RCPS
REACTOR COOLANT	RC
REACTOR COOLANT ALARM	RCA
REACTOR COOLANT DRAIN TANK	RCDT
REACTOR COOLANT PUMP	RCP
REACTOR COOLANT SYSTEM	RCS
REACTOR MAKEUP WATER	RMUW
REACTOR MAKEUP WATER PUMP	RMUWP
REACTOR MAKEUP WATER STORAGE TANK	RMUWST
REACTOR PROTECTION SYSTEM	RPS
REACTOR THERMAL OUTPUT	RTO
REACTOR TRIP	RX TRIP
REACTOR VESSEL	RV
REAGENT	REGNT
RECEIVER	RCVR

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
RECEIVING	RCV
RECIRCULATING/RECIRCULATION	RECIRC
RECOMBINER	RCMB
RECORDER	RCDR
RECOVERY	RECVRY(*RCVRY)
RECYCLE	RECYC
RECYCLE HOLDUP TANK	REHUT(*RHT)
REDUCTION	REDUC
REDUNDANT	REDUN
REFERENCE TEMPERATURE	T <sub>REF</sub>
REFERENCE PRESSURE	P <sub>REF</sub>
REFERENCE	REF
REFERENCE POINT	REF PT
REFUELING	REFUEL
REFUELING WATER PURIFICATION PUMP	RWPP
REFUELING WATER STORAGE TANK	RWST
REGENERATIVE/REGENERATION	REGEN
REGULATOR/REGULATION	REG
REHEAT	RHT
REHEATER	RHTR
REJECTION	REJ

\*To be used for valve tagging only

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
RELAY	RELAY
RELIEF	RLF
REMOTE	RMT
RESERVOIR	RESVR
RESIDUAL HEAT REMOVAL	RHR
RESIDUAL HEAT REMOVAL PUMP	RHRP
RESIN	RSN
RESIN TRAP	RSNTRP
RESISTANCE TEMPERATURE DETECTOR	RTD
RETURN	RET
REVERSE OSMOSIS	RO
REVOLUTIONS PER MINUTE	RPM
ROD CLUSTER CONTROL	RCC
ROD CLUSTER CONTROL ASSEMBLY	RCCA
ROD POSITION INDICATOR	RPI
ROENTGEN EQUIVALENT MAN	REM
ROOM	RM
RUNNING	RUN
RUNNING VOLTAGE	V-RUN

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE

RECOMMENDED ABBREVIATION

SAFE SHUTDOWN IMPOUNDMENT	SSI
SAFEGUARD	SFGD
SAFETY	SFTY
SAFETY INJECTION	SI
SAFETY INJECTION ACTUATION SIGNAL	SIAS
SAFETY INJECTION PUMP	SIP
SAFETY INJECTION SYSTEM	SIS
SAMPLE/SAMPLING	SMPL
SANITARY	SANI
SATURATION	SAT
SCREEN	SCRN
SCREENWASH	SCRNWASH(*SCRNWSH)
* SCREEN WASH PUMP	SCRNWSHP
* SEAL INJECTION	SL INJ
SEAL OIL	SEAL OIL
SEAL WATER	SEAL WTR
SECONDARY	SEC
SECTION	SECT
SELECT/SELECTOR	SEL
SENSOR	SENS
SEPARATOR	SEP

\*To be used for valve tagging only



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
SEQUENCE	SEQ
SEQUENCE OF EVENTS RECORDER	SER
SEQUENCER	SEQR
SEQUENTIAL	SEQL
SERVICE	SERV
SERVICE WATER INTAKE STRUCTURE	SWIS
SEIPOINT	SETPT
SETTING/SETTLING	SET
SHAFT LIFT OIL PUMP	SLOP
SHELL	SHL
SHIELD	SHLD
SHIPPING	SHIP
SHOWER	SHWR
SHUTDOWN	SHTDN
SHUTDOWN BANK	SB
SHUTDOWN TRANSFER PANEL	STP
SIGNAL	SIG
SKIM/SKIMMER	SKM
SLUDGE	SLDG
SLUICE	SLC
SMOKE	SMK
SODIUM	NA

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
SODIUM HYDROXIDE	NAOH
SOLENOID VALVE	SOL VLV
SOLID STATE PROTECTION SYSTEM	SSPS
SOLID WASTE PROCESSING SYSTEM	SWPS
SOURCE RANGE	SR
SOURCE RANGE MONITOR	SRM
SOUTH	S.
SPARE	SP
SPARGER	SPRGR
SPEAKER	SPKR
SPECIAL	SPEC
SPEED	SPD
SPENT FUEL	SF
SPENT FUEL ASSEMBLY	SFA
SPENT FUEL POOL	SFP
SPENT FUEL POOL COOLING (SYSTEM)	SFPC(S)
SPENT RESIN STORAGE TANK	SRST
SPRAY	SPR
SPRAY SPRINKLER	SPKLR
STABILIZER	STAB
STAGE/STAGING	STG

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE

RECOMMENDED ABBREVIATION

STANDBY

STBY

\* STANDPIPE

STPIPE

START UP

SU

START UP RATE

SUR

START/STARTER/STARTING

START

STATION

STA

STATION SERVICE WATER

SSW

STATION SERVICE WATER PUMP

SSWP

STATOR

STAT

STEAM

STM

STEAM DUMP

STM DMP

STEAM GENERATOR

SG

\* STEAM GENERATOR BLOWDOWN

SGBD

STEAM GENERATOR BLOWDOWN (SYSTEM)

SG BLDN(SYS)

STEAM GENERATOR FEEDWATER PUMP

SG FWP

STORAGE

STOR

STRAINER

STRN

STRIP

STRP

STRUCTURE

STRUCT

SUBSTITUTE

SUBST

\*To be used for valve tagging only

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE

RECOMMENDED ABBREVIATION

SUCTION

SUCT

SUMP

SMP

SUPERVISORY/SUPERVISION/SUPERVISOR

SUPV

SUPPLY

SPLY

SUPPORT

SUP

\* SURFACE

SRF

SURGE

SRG

SWITCH

SW

SWITCHGEAR

SWGR

SWITCHOVER

SWOVR

SWITCHYARD

SWYD

SYNCHRONIZED/SYNCROSCOPE/SYNCHRONOUS

SYNC

SYSTEM

SYS

\*To be used for valve tagging only



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE

RECOMMENDED ABBREVIATION

TACHOMETER	TACH
TAMPER	TMPR
TANK	TK
TEMPERATURE	TEMP
TEMPERATURE CONTROL VALVE	TCV
TEMPERATURE DIFFERENCE	$\Delta T$
TEMPERATURE INDICATOR	TI
TEMPERATURE RECORDER	TRCDR
TERMINAL	TERM
TEST	TST
* TEST CONNECTION	TC
* TEST DRAIN	TD
* TEST VALVE	TV
THERMAL	THERM
THERMAL BARRIER	THBR
THERMISTOR	THERMSTR
THROTTLE	THROT
THRUST	THR
THYRISTOR VOLTAGE REGULATOR	TVR
TOILET	TOIL

\*To be used for valve tagging only

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
TOTAL	TOT
TOWER	TWR
TRAIN	TRN
TRANSFER	XFER
TRANSFORMER	XFMR
TRANSIENT	TRANS
TRANSMIT/TRANSMITTER	XMTR
TRANSPORT	XPORT
TRAVELING SCREEN	TRAVSCRN
TREATMENT	TREAT
TRIP	TRIP
TROUBLE	TRBL
TUBE SHEET PRESSURIZATION	TSP
TURBINE	TURB
TURBINE BUILDING	TB
TURBINE DRIVEN	TD
TURBINE GENERATOR	TG
TURBINE PLANT COOLING WATER	TPCW
TURBINE STRESS EVALUATOR	TSE
TURNING	TURN

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE

RECOMMENDED ABBREVIATION

ULTRAVIOLET

UV

UNCONTROLLED

UNCTRL

UNDERFREQUENCY

UNDRFREQ

UNDERVOLTAGE

UNDRVOLT

UNINTERRUPTIBLE POWER SUPPLY

UPS

UNIT

UNIT

\* UNIT ONE

U1

\* UNIT TWO

U2

UNLOADER

UNLDR

UPPER

UP

UPSTREAM

UPSTRM

\*To be used for valve tagging only

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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
VACUUM	VAC
VALVE	VLV
VAPOR	VAP
VARIABLE	VAR
VENT/VENTILATION	VENT(*VNT)
VENUS	VENUS
VERTICAL	VERT
VESSEL	VSL
VIBRATION	VIBR
VIBRATION ECCENTRICITY MONITOR	VEM
VISCOSITY	VISC
VOLTAGE	VOLT
VOLTS AC	V/AC
VOLT AMPERES REACTIVE	VARs
VOLTS DC	V/DC
VOLT	V
VOLUME	VOL
VOLUME CONTROL TANK	VCT

\*To be used for valve tagging only



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DICTIONARY OF ACRONYMS AND ABBREVIATIONS

NOMENCLATURE	RECOMMENDED ABBREVIATION
WARMUP	WU
WASTE	WSTE
WASTE CONDITIONING TANK	WCT
WASTE EVAPORATOR	WE
WASTE GAS COMPRESSOR	WGC
WASTE GAS DECAY TANK	WGDT
WASTE HOLDUP TANK	WHUT
WASTE MONITOR	WM
WASTE MONITOR TANK	WMT
WASTE PROCESSING SYSTEM	WPS
WEST	W.
WESTINGHOUSE	<u>W</u>
WATER	WTR
WINDING	WINDG
WITHDRAWAL	WTHDRWL