

COMANCHE PEAK STEAM ELECTRIC STATION  
EMERGENCY RESPONSE GUIDELINE GENERIC PLANT COMPARISON

GENERIC PLANT COMPARISON

REVISION DATE October 31, 1985  
(Revision 1)

SUBMITTED BY Ralph Flanagan TITLE Sr. Engr. DATE 10/31/85  
REVIEWED BY A. Wayne Smith DATE 10/31/85  
ENGINEER  
APPROVED BY J. J. Allen DATE 10/31/85  
OPERATIONS ENGINEER

8512260096 851216  
PDR ADOCK 05000445  
F PDR

ODA-204-5

# Generic Plant Comparison to CPSES

System	CPSES differences	Justification Completed
RCS	The RCS has no bypass manifolds and utilizes N-16 detectors.	Yes p. 4 of 18. Reference FSAR p. 7.2-16 Section 7.2.1.1.4, 7.2.1.1 & 7.2.1.1.4.2.
RCS	The over pressure protection for RCS at low temperatures is automatically placed in service	Yes p. 5 of 18. Reference FSAR p. 7.6-22 Section 7.6.8.
ECCS	CPSES design does not incorporate a BIT as part of ECCS.	Yes p. 6 of 18. Reference Westinghouse proposal for BORON REDUCTION/ BIT REMOVAL ANALYSIS and W-letter TBX(ATP) 79-325 concerning the same matter.
ECCS	Charging miniflows do not remain open on an SI signal.	Yes p. 7 of 18. Reference 2323-MI-0255 & 2323-MI-2255-21.
Containment Ventilation	The containment fan coolers at CPSES, are not used for heat removal purposes in emergency conditions.	Yes p. 8 of 18. Reference FSAR Sec. 6.2.2., p. 6.2-42.
Containment Ventilation	Ventilation Chill Water is the cooling supply to the Containment Air Cooling and Recirc. Fans.	Yes p. 9 of 18. Reference FSAR Sec. 9.4A.1.1, p. 9.4A-1 & 2323-MI-0300.
Main Feedwater	CPSES design does not utilize a Motor Driven Feed Pump	Yes p. 10 of 18. Reference FSAR p. 10.4-58.
Main Feedwater	The feedwater system design causes slight variations in the valves that are closed on feedwater isolation.	Yes p. 11 of 18. Reference 2323-MI-2203-05, 07 & 08
Auxiliary Feedwater	Each Motor Driven AFW pump is normally aligned to feed 2 SGs but can be aligned to feed all 4 SGs.	Yes p. 12 of 18. Reference FSAR p. 10.4-80.

# Generic Plant Comparison to CPSES

System	CPSES differences	Justification Completed
Reactor Vessel Level Indication System	CPSES does not plan to have RVLIS in operation until the first refueling outage.	Yes p. 13 of 18. Reference Tech Specs Table 3.3-10, p. 3/4.3-62.
Containment Spray	CPSES utilizes Four Containment Spray Pumps for 2 trains.	Yes p. 14 of 18. Reference FSAR Sect. 6.5.2, p. 6.5-12 and 2323-ML-0232.
Containment Spray	The Containment Spray pumps get a start signal on a SI signal, as well as Phase "B" and Manual.	Yes p. 15 of 18. Reference FSAR p. 6-2-16 [23].
ECCS	RWST level low-low auto switchover to containment sump arrangement, including auto switch over block.	Yes p. 16 of 18. Reference FSAR p. 6.3-24 [22] and 2323-ML-2263-06
RCS	CPSES utilize 700# nitrogen to operate their PORVs.	Yes p. 17 of 18. Reference FSAR Sec. 5.4.13.2., p. 5.4-80 and 2323-ML-0262.
N/A (Procedure Foldout Page)	Incorporate Adverse Containment Criteria to foldout page and delete Red Path Summary.	Yes p.18 of 18. Reference Simulator use of ERGs and Human Factors Concerns.

1. Difference Description CPSES does not utilize a bypass line T hot  
and T cold measurements for the purpose of RCS average temperatures.
2. Justification The bypass manifold arrangement has been replaced with  
a N-16 monitor and an in-line T cold measurement. The N-16 power monitor  
measures N-16 present in RCS due to neutron activation of oxygen con-  
tained in water. This is used with T cold to determine T avg. Indication  
for all temperatures remain the same.

3. Completed by Burt Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flores / 8/7/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flores 8/7/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-0.1, EOS-1.1

Comments:

1. Difference Description The RCS overpressure system at low temperature  
is automatically place in service.

2. Justification RCS low temperature pressure control includes automatic  
actuation logic for 2 Pressurizer power operated relief valves. This  
actuation logic will only be unblocked when plant oepration is at a  
temperature below Reference Nil Dutility Temperature. This difference  
is an improvement over the reference plant, since no operator action is  
required

3. Completed by Bart Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flax 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flax 8/8/84  
ENGINEER DATE

Generic Procedure Reference: NONE (NO OPERATOR ACTION REQUIRED)

Comments:

1. Difference Description The Centrifugal Charging portion of ECCS does not incorporate a Boron Injection Tank
2. Justification CPSES eliminated the BIT and it's associated equipment after Westinghouse completed extensive studies in this area. CPSES design was such that elimination of the BIT did not lower the level of safety. (i.e. flow restrictors integral to SGs).
3. Completed by Burt Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaws / 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaws / 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-1.1, EOS-1.2, EOP-3.0,

ECA-2.1, ECA-3.1, ECA-3.2, ECA-3.3, FRH-0.1, FRP-0.1

Comments:

1. Difference Description The charging miniflow valves do not remain open on an SI at CPSES.

2. Justification Each CCP has a new miniflow arrangement. On an "S" signal, normal miniflow valves close and valves 8511 A & B open aligning a miniflow flowpath to a relief to open on high pressure. 8512 A & B are in series with 8511 A & B and are administratively kept open. This difference is an improvement since no operator action is required

3. Completed by Bert Smith DATE 7-6-84
- The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaw 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaw 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-0.1, EOS-0.2, EOS-0.4,  
EOS-1.1, EOP-3.0, EOS-3.1, EOS-3.2, EOS-3.3, ECA-2.1, ECA-3.1, FRH-0.1

Comments:

1. Difference Description Containment Fan coolers are not used at CPSES  
for heat removal purposes following an accident.

2. Justification The design flowrate of each train of Containment Spray  
is sufficient to maintain the Containment pressure and temperature  
below Containment design values.

3. Completed by Bart Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaw 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaw 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, ECA-0.1, ECA-0.2, ECA-1.1,  
FRZ-0.1

Comments:



1. Difference Description The Containment Air Recirculation and cooling System Fans utilize Ventilation Chilled Water as their cooling medium while the generic reference plant uses CCW.

2. Justification This system is not required to operate following a DBA so the post accident CCW cooling is not required. It is required for loss of offsite power so it is sequenced on as well as the Ventilation Chilled Water System.

3. Completed by Pent Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaws 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaws 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, ECA-0.1, ECA-0.2, ECA-1.1,  
FRZ-0.1

Comments:

1. Difference Description CPSES design does not incorporate a Motor  
Driven Feedwater Pump

2. Justification CPSES utilizes two 50% capacity feedwater pump. The  
dual admission feedwater pump turbine drivers operate with steam from  
two sources. One pump is required up to 50% power and from 50% to full  
power both are required. The Condensate Pumps can be used to pump  
water at lower pressures.

3. Completed by Bert Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaw 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaw 8/8/84  
ENGINEER DATE

Generic Procedure Reference: \*EOP-0.0, EOP-3.0, EOS-0.1, EOS-0.2,  
FRZ-0.1, FRH-0.5, FRH-0.1

Comments:

1. Difference Description Due to the preheater arrangement in CPSES SGs  
the feedwater isolation signal closes more valves than the same signal  
of the generic plant reference.

2. Justification A feedwater isolation signal closes the F.W. Preheater  
Valves and F.W. Splitflow Bypass Valve in addition to the normal valves.  
This ensures feedwater isolation to the SGs. These additional valves are  
checked in the steps for feedwater isolation of the emergency procedures.

3. Completed by Paul Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flow 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flow 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-0.1, EOP-1.0, EOP-2.0,

EOP-3.0, ECA-3.1, FRZ-0.1, FRH-0.3, FRH-0.2

Comments:

1. **Difference Description** The generic plant reference refers to the  
Motor Driven AFW pumps being lined up to 2 SGs. CPSES's Motor Driven  
AFW pumps are normally lined up to 2 SGs but have the capability to be  
lined up to 4 SGs.
2. **Justification** A normally closed interconnection between the motor driven  
pump discharge lines permits either pump to feed all four SGs. This  
provides a method for maintaining SG water level on a long-term basis,  
but will not normally be used. This difference is an improvement over  
the generic.

3. **Completed by** Burt Smith **DATE** 7-6-84
- The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaws 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaws 8/8/84  
ENGINEER DATE

**Generic Procedure Reference:** EOP-0.0, EOP-3.0, EOS-0.1, EOS-0.2,  
FRZ-0.1, FRH-0.5, FRH-0.1

**Comments:**

1. Difference Description The Reactor Vessel Level Indication System at  
CPSES will not be operational until the first refueling outage
2. Justification The steps that dealt with RVLIS in the emergency procedure  
were revised as specified in the background documentation of the ERG's  
to meet plant design at this time. When RVLIS is functional it will  
be incorporated.
3. Completed by Burt Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaws/ 8/7/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaws/ 8/7/84  
ENGINEER DATE

Generic Procedure Reference: FRI-0.3, FRC-0.2, FRC-0.1, ECA-2.1,  
ECA-3.1, ECA-3.2, ECA-3.3, EOS-0.4, EOS-1.4, EOS-3.3, EOS-0.3

Comments: This sheet will be removed after first refueling when RVLIS is installed.

1. Difference Description Containment Spray pumps get a start signal on  
a SI as well as Phase "B" and Manual signals

2. Justification The CSS discharge valves open on a "P" signal which  
comes from a Phase "B" or Manual actuations. Having the pump start on  
an SI anticipates the need of the pump if conditions become more severe.  
This difference is an improvement over the reference plant.

3. Completed by Pat Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flann 8/7/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flann 8/7/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-0.1, EOS-0.2, EOP-1.0,  
EOS-1.1, EOS-1.2, EOS-1.3, EOP-3.0, ECA-2.1, ECA-3.1

Comments:

1. Difference Description The generic reference plant uses a two Containment Spray Pump arrangement, while CPSES has four containment spray pumps.
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2. Justification The redundancy requirements of the CSS are satisfied by duplicating 2-100% capacity trains, with each train having 2-50% capacity pumps. This difference does not allow one pump failure to remove the capacity of one train completely.
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3. Completed by Sam Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaw 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaw 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOP-1.0, EOS-1.3, ECA-2.1

ECA-3.1, FRZ-0.1, ECA-0.2

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Comments:



1. **Difference Description** CPSES's design includes an auto switchover of  
the RWST to the containment sump as RHR pump suction.

2. **Justification** On an RWST low-low level signal, coincident with an "S"  
signal, the containment sump valves to RHR pump will open. This  
arrangement is also set up with reset switches (independent of SI reset),  
that can reset this function after SI is reset. This difference is an  
improvement over the reference plant.

3. **Completed by** Burt Smith **DATE** 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaw 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaw 8/8/84  
ENGINEER DATE

**Generic Procedure Reference:** EOP-0.0, EOP-1.0, EOS-1.1, EOS-1.2,  
EOS-1.3, EOP-3.0, ECA-2.1, ECA-3.1, ECA-3.2

**Comments:**



1. Difference Description The Pressurizer PORV's at CPSES utilizes Nitrogen gas as their pneumatic driver.

2. Justification The PRZR PORV's are pneumatic actuated vavles which respond to a signal from a pressure sensing system or to manual control as per the M-drawing, CPSES uses nitrogen as the pneumatic driver for the PORVs. This is considered a minor difference which does not affect the plant.

3. Completed by Sam Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flores 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flores 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-0.1, EOS-0.2, EOS-0.3,  
EOP-1.0, EOS-1.1, EOS-1.2, EOP-3.0, EOS-3.1, EOS-3.2, EOS-3.3, ECA-2.1,  
ECA-3.1

Comments:

1. Difference Description The CPSES plant specific procedure foldout  
page items was revised to incorporate the criteria for determining  
whether Adverse Containment Parameters should be used. The FRG red  
path summary was removed in order to accomodate the above mentioned  
change.
2. Justification The generic procedures as written, never mention when  
Adverse Containment parameters should be used. By placing them on the  
foldout page, the operator will have a quick reference to be able to  
make that determination. The red path summary was removed since the  
operator as well as the STA will continually be monitoring the critical  
safety function status trees on the computer or manually if not available.
3. Completed by Ralph Flores DATE 10/31/85

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flores 10/31/85  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flores 10/31/85  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-0.0, EOS-0.1, EOS-0.2, EOS-0.4,  
EOP-1.0, EOS-1.1, EOS-1.2, EOS-1.3, EOS-1.4, EOP-3.0, EOS-3.1, EOS-3.2,  
EOS-3.3, ECA-2.1, ECA-3.1, ECA-3.2, ECA-3.3.

Comments:

COMANCHE PEAK STEAM ELECTRIC STATION  
EMERGENCY RESPONSE GUIDELINE GENERIC PLANT COMPARISON

GENERIC PLANT COMPARISON

REVISION DATE August 15, 1984

SUBMITTED BY Ralph Flann TITLE Engineer DATE 8/10/84  
REVIEWED BY Norman L Terrell DATE 8/20/84  
ENGINEER  
APPROVED BY J. L. Allen DATE 8/21/84  
OPERATIONS ENGINEER

# Generic Plant Comparison to CPSES

System	CPSES differences	Justification Completed
RCS	The RCS has no bypass manifolds and utilizes N-16 detectors.	Yes p. 4 of 17. Reference FASR p. 7.2-16 Section 7.2.1.1.4, 7.2.1.1 & 7.2.1.1.4.2.
RCS	The over pressure protection for RCS at low temperatures is automatically placed in service	Yes p. 5 of 17. Reference FSAR p. 7.6-22 Section 7.6.8.
ECCS	CPSES design does not incorporate a BIT as part of ECCS.	Yes p. 6 of 17. Reference Westinghouse proposal for BORON REDUCTION/ BIT REMOVAL ANALYSIS and W-letter TBX(ATP) 79-325 concerning the same matter.
ECCS	Charging miniflows do not remain open on an SI signal.	Yes p. 7 of 17. Reference 2323-ML-0255 & 2323-ML-2255-21.
Containment Ventilation	The containment fan coolers at CPSES, are not used for heat removal purposes in emergency conditions.	Yes p. 8 of 17. Reference FSAR Sec. 6.2.2., p. 6.2-42.
Containment Ventilation	Ventilation Chill Water is the cooling supply to the Containment Air Cooling and Recirc. Fans.	Yes p. 9 of 17. Reference FSAR Sec. 9.4A.1.1, p. 9.4A-1 & 2323-ML-0300.
Main Feedwater	CPSES design does not utilize a Motor Driven Feed Pump	Yes p. 10 of 17. Reference FSAR p. 10.4-58.
Main Feedwater	The feedwater system design causes slight variations in the valves that are closed on feedwater isolation.	Yes p. 11 of 17. Reference 2323-ML-2203-05, 07 & 08
Auxiliary Feedwater	Each Motor Driven AFW pump is normally aligned to feed 2 SGs but can be aligned to feed all 4 SGs.	Yes p. 12 of 17. Reference FSAR p. 10.4-80.

# Generic Plant Comparison to CPSES

System	CPSES differences	Justification Completed
Reactor Vessel Level Indication System	CPSES does not plan to have RVLIS in operation until the first refueling outage.	Yes p. 13 of 17. Reference Tech Specs Table 3.3-10, p. 3/4.3-62.
Containment Spray	CPSES utilizes Four Containment Spray Pumps for 2 trains.	Yes p. 14 of 17. Reference FSAR Sect. 6.5.2, p. 6.5-12 and 2323-MI-0232.
Containment Spray	The Containment Spray pumps get a start signal on a SI signal, as well as Phase "B" and Manual.	Yes p. 15 of 17. Reference FSAR p. 6-2-16 [23].
ECCS	RWST level low-low auto switchover to containment sump arrangement, including auto switch over block.	Yes p. 16 of 17. Reference FSAR p. 6.3-24 [22] and 2323-MI-2263-06
RCS	CPSES utilize 700# nitrogen to operate their PORVs.	Yes p. 17 of 17. Reference FSAR Sec. 5.4.13.2., p. 5.4-80 and 2323-MI-0262.

1. Difference Description CPSES does not utilize a bypass line T hot  
and T cold measurements for the purpose of RCS average temperatures.
2. Justification The bypass manifold arrangement has been replaced with  
a N-16 monitor and an in-line T cold measurement. The N-16 power monitor  
measures N-16 present in RCS due to neutron activation of oxygen con-  
tained in water. This is used with T cold to determine Tavg. Indication  
for all temperatures remain the same.
3. Completed by Burt Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flores / 8/7/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flores 8/7/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-0.1, EOS-1.1

Comments:

1. Difference Description The RCS overpressure system at low temperature  
is automatically place in service.

2. Justification RCS low temperature pressure control includes automatic  
actuation logic for 2 Pressurizer power operated relief valves. This  
actuation logic will only be unblocked when plant operation is at a  
temperature below Reference Nil Dutility Temperature. This difference  
is an improvement over the reference plant, since no operator action is  
required

3. Completed by Bat Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flow 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flow 8/8/84  
ENGINEER DATE

Generic Procedure Reference: NONE (NO OPERATOR ACTION REQUIRED)

Comments:

1. Difference Description The Centrifugal Charging portion of ECCS does  
not incorporate a Boron Injection Tank
2. Justification CPSES eliminated the BIT and it's associated equipment after  
Westinghouse completed extensive studies in this area. CPSES design was  
such that elimination of the BIT did not lower the level of safety. (i.e.  
flow restrictors integral to SGs).
3. Completed by Burt Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaw / 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaw / 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-1.1, EOS-1.2, EOP-3.0,  
ECA-2.1, ECA-3.1, ECA-3.2, ECA-3.3, FRH-0.1, FRP-0.1

Comments:



1. Difference Description The charging miniflow valves do not remain open on an SI at CPSES.
2. Justification Each CCP has a new miniflow arrangement. On an "S" signal, normal miniflow valves close and valves 8511 A & B open aligning a miniflow flowpath to a relief to open on high pressure. 8512 A & B are in series with 8511 A & B and are administratively kept open. This difference is an improvement since no operator action is required.
3. Completed by Burt Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaw 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaw 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-0.1, EOS-0.2, EOS-0.4,  
EOS-1.1, EOP-3.0, EOS-3.1, EOS-3.2, EOS-3.3, ECA-2.1, ECA-3.1, FRH-0.1

Comments:

1. Difference Description Containment Fan coolers are not used at CPSES  
for heat removal purposes following an accident.

2. Justification The design flowrate of each train of Containment Spray  
is sufficient to maintain the Containment pressure and temperature  
below Containment design values.

3. Completed by Burt Smith DATE 7-6-84

The difference mentioned above does not compromise the generic  
technical basis for the guidelines.

Ralph Flaw 8/3/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective  
of the Plant Specific ERG's

Ralph Flaw 8/3/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, ECA-0.1, ECA-0.2, ECA-1.1,  
FRZ-0.1

Comments:

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1. Difference Description The Containment Air Recirculation and cooling  
System Fans utilize Ventilation Chilled Water as their cooling medium  
while the generic reference plant uses CCW.

2. Justification This system is not required to operate following a DBA  
so the post accident CCW cooling is not required. It is required for  
loss of offsite power so it is sequenced on as well as the Ventilation  
Chilled Water System.

3. Completed by P. Smith DATE 7-6-84  
The difference mentioned above does not compromise the generic  
technical basis for the guidelines.

Ralph Flans 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective  
of the Plant Specific ERG's

Ralph Flans 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, ECA-0.1, ECA-0.2, ECA-1.1,  
FRZ-0.1

Comments:

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1. Difference Description CPSES design does not incorporate a Motor  
Driven Feedwater Pump

2. Justification CPSES utilizes two 50% capacity feedwater pump. The  
dual admission feedwater pump turbine drivers operate with steam from  
two sources. One pump is required up to 50% power and from 50% to full  
power both are required. The Condensate Pumps can be used to pump  
water at lower pressures.

3. Completed by Bert Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaw 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaw 8/8/84  
ENGINEER DATE

Generic Procedure Reference: \*EOP-0.0, EOP-3.0, EOS-0.1, EOS-0.2,

FRZ-0.1, FRH-0.5, FRH-0.1

Comments:

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ODA-204-5b

1. Difference Description Due to the preheater arrangement in CPSES SGs  
the feedwater isolation signal closes more valves than the same signal  
of the generic plant reference.
2. Justification A feedwater isolation signal closes the F.W. Preheater  
Valves and F.W. Splitflow Bypass Valve in addition to the normal valves.  
This ensures feedwater isolation to the SGs. These additional valves are  
checked in the steps for feedwater isolation of the emergency procedures.
3. Completed by Bart Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaw 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaw 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-0.1, EOP-1.0, EOP-2.0,  
EOP-3.0, ECA-3.1, FRZ-0.1, FRH-0.3, FRH-0.2

Comments:

1. Difference Description The generic plant reference refers to the  
Motor Driven AFW pumps being lined up to 2 SGs. CPSES's Motor Driven  
AFW pumps are normally lined up to 2 SGs but have the capability to be  
lined up to 4 SGs.
2. Justification A normally closed interconnection between the motor driven  
pump discharge lines permits either pump to feed all four SGs. This  
provides a method for maintaining SG water level on a long-term basis,  
but will not normally be used. This difference is an improvement over  
the generic.
3. Completed by Burt Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Platts 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

\* Ralph Platts 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOP-3.0, EOS-0.1, EOS-0.2,  
FRZ-0.1, FRH-0.5, FRH-0.1

Comments:

1. Difference Description The Reactor Vessel Level Indication System at  
CPSES will not be operational until the first refueling outage
2. Justification The steps that dealt with RVLIS in the emergency procedure  
were revised as specified in the background documentation of the ERG's  
to meet plant design at this time. When RVLIS is functional it will  
be incorporated.
3. Completed by *Paul Smith* DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

*Ralph Flaws* 8/7/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

*Ralph Flaws* 8/7/84  
ENGINEER DATE

Generic Procedure Reference: FRI-0.3, FRC-0.2, FRC-0.1, ECA-2.1,

ECA-3.1, ECA-3.2, ECA-3.3, EOS-0.4, EOS-1.4, EOS-3.3, EOS-0.3

Comments: This sheet will be removed after first refueling when RVLIS is installed.

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1. Difference Description Containment Spray pumps get a start signal on  
a SI as well as Phase "B" and Manual signals

2. Justification The CSS discharge valves open on a "P" signal which  
comes from a Phase "B" or Manual actuations. Having the pump start on  
an SI anticipates the need of the pump if conditions become more severe.  
This difference is an improvement over the reference plant.

3. Completed by Paul Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flann 8/7/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flann 8/7/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-0.1, EOS-0.2, EOP-1.0,  
EOS-1.1, EOS-1.2, EOS-1.3, EOP-3.0, ECA-2.1, ECA-3.1

Comments:



1. Difference Description The generic reference plant uses a two Containment Spray Pump arrangement, while CPSES has four containment spray pumps.

2. Justification The redundancy requirements of the CSS are satisfied by duplicating 2-100% capacity trains, with each train having 2-50% capacity pumps. This difference does not allow one pump failure to remove the capacity of one train completely.

3. Completed by Sam Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaw 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaw 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOP-1.0, EOS-1.3, ECA-2.1

ECA-3.1, FRZ-0.1, ECA-0.2

Comments:

1. Difference Description CPSES's design includes an auto switchover of  
the RWST to the containment sump as RHR pump suction.

2. Justification On an RWST low-low level signal, coincident with an "S"  
signal, the containment sump valves to RHR pump will open. This  
arrangement is also set up with reset switches (independent of SI reset),  
that can reset this function after SI is reset. This difference is an  
improvement over the reference plant.

3. Completed by Burt Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flaw 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERG's

Ralph Flaw 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOP-1.0, EOS-1.1, EOS-1.2,  
EOS-1.3, EOP-3.0, ECA-2.1, ECA-3.1, ECA-3.2

Comments:

1. Difference Description The Pressurizer PORV's at CPSES utilizes Nitrogen gas as their pneumatic driver.

2. Justification The PRZR PORV's are pneumatic actuated vavles which respond to a signal from a pressure sensing system or to manual control as per the M-drawing, CPSES uses nitrogen as the pneumatic driver for the PORVs. This is considered a minor difference which does not affect the plant.

3. Completed by Sam Smith DATE 7-6-84

The difference mentioned above does not compromise the generic technical basis for the guidelines.

Ralph Flores 8/8/84  
ENGINEER DATE

The difference mentioned above does not affect the overall objective of the Plant Specific ERC's

Ralph Flores 8/8/84  
ENGINEER DATE

Generic Procedure Reference: EOP-0.0, EOS-0.1, EOS-0.2, EOS-0.4,  
EOP-1.0, EOS-1.1, EOS-1.2, EOP-3.0, EOS-3.1, EOS-3.2, EOS-3.3, ECA-2.1,  
ECA-3.1

Comments: