


## DISTRIBUTION CONTROL LIST

Document Name: ITS/BASES/TRM

CC_NAME NAME	DEPT	LOCATION
1 OPS PROCEDURE GROUP SUPV.	OPS PROCEDURE GROUP	IP2
3 PLANT MANAGER'S OFFICE	UNIT 3 (UNIT 3/IPEC ONLY)	IP2
5 CONTROL ROOM & MASTER	OPS (3PT-D001/6 (U3/IPEC)	IP3 (ONLY)
11 RES DEPARTMENT MANAGER	RES (UNIT 3/IPEC ONLY)	45-4-A
16 BOCCIO JOHN	I&C OFFICE (SUPERVISOR)	45-2-A
19 STEWART ANN	LICENSING	GSB-2D
20 CHEMISTRY SUPERVISOR	CHEMISTRY DEPARTMENT	45-4-A
21 TSC (IP3)	EEC BUILDING	IP2
22 SHIFT MGR. (LUB-001-GEN)	OPS (UNIT 3/IPEC ONLY)	IP3
23 LIS	LICENSING & INFO SERV	OFFSITE
25 SIMULATOR	TRAIN (UNIT 3/IPEC ONLY)	48-2-A
28 RESIDENT INSPECTOR	US NRC 88' ELEVATION	IP2
32 EOF	E-PLAN (ALL EP'S)	EOF
47 CHAPMAN N	BECHTEL	OFFSITE
50 TADEMY L. SHARON	WESTINGHOUSE ELECTRIC	OFFSITE
54 NUC ENGINEERING LIBRARY	DOC (UNIT 3/IPEC ONLY)	WPO/7A
55 GSB TECHNICAL LIBRARY	A MCCALLION/IPEC, IP2/IP3	GSB-4B
61 SIMULATOR	TRAIN (UNIT 3/IPEC ONLY)	48-2-A
69 CONROY PAT	LICENSING/ROOM 205	GSB-2D
99 BARANSKI J (ALL)	ST. EMERG. MGMT. OFFICE	OFFSITE
102 BILYOU CHRISTINE I&C ONLY	I&C SUPPORT	45-2-D
106 SIMULATOR INSTRUCT AREA	TRG/3PT-D001-D006 ONLY)	#48
164 CONTROL ROOM & MASTER	OPS (3PT-D001/6 (U3/IPEC)	IP3 (ONLY)
207 TROY M	PROCUREMENT ENG.	1A
273 FAISON CHARLENE	NUCLEAR LICENSING	WPO-12
319 L.GRANT (LRQ-OPS TRAIN)	LRQ (UNIT 3/IPEC ONLY)	#48
354 L.GRANT (LRQ-OPS/TRAIN)	LRQ (UNIT 3/IPEC ONLY)	#48
357 L.GRANT (ITS/INFO ONLY)	TRAINING - ILO CLASSES	48-2-A
424 GRANT LEAH (9 COPIES)	(UNIT 3/IPEC ONLY)	#48
474 OUELLETTE P	ENG., PLAN & MGMT INC	OFFSITE
483 SCHMITT RICHIE	MAINTENANCE ENG/SUPV	45-1-A
484 HANSLER ROBERT	REACTOR ENGINEERING	72'UNIT 2
485 DRAKE RICH	DESIGN ENG/GSB/3RD FLOOR	GSB-3B
489 CLOUGHNESSY PAT	PLANT SUPPORT TEAM	GSB-3B
491 ORLANDO TOM (MANAGER)	PROGRAMS/COMPONENTS ENG	45-3-G
492 FSS UNIT 3	OPERATIONS	K-IP-I210
493 OPERATIONS FIN TEAM	33 TURBIN DECK	45-1-A
494 AEOF/A.GROSJEAN (ALL EP'S)	E-PLAN (EOP'S ONLY)	WPO-12D
495 JOINT NEWS CENTER	EMER PLN (ALL EP'S)	EOF
496 L.GRANT (LRQ-OPS/TRAIN)	LRQ (UNIT 3/IPEC ONLY)	#48
497 L.GRANT (LRQ-OPS/TRAIN)	LRQ (UNIT 3/IPEC ONLY)	#48
500 L.GRANT (LRQ-OPS TRAIN)	LRQ (UNIT 3/IPEC ONLY)	#48
501 L.GRANT (LRQ-OPS TRAIN)	LRQ (UNIT 3/IPEC ONLY)	#48
512 L.GRANT (LRQ-OPS TRAIN)	LRQ (UNIT 3/IPEC ONLY)	#48
513 L.GRANT (LRQ-OPS TRAIN)	LRQ (UNIT 3/IPEC ONLY)	#48
518 DOCUMENT CONTROL DESK	NRC (ALL EP'S)	OFFSITE
527 MILIANO PATRICK	NRC/SR. PROJECT MANAGER	OFFSITE
529 FIELDS DEBBIE	OUTAGE PLANNING	IP3/OSB

A001


 <b>Entergy</b> <b>IPEC SITE MANAGEMENT MANUAL</b>	<b>QUALITY RELATED ADMINISTRATIVE PROCEDURE</b>	<b>IP-SMM-AD-103</b> <b>Revision 0</b>
	<b>INFORMATIONAL USE</b>	<b>Page 13 of 21</b>

**ATTACHMENT 10.1**

**SMM CONTROLLED DOCUMENT TRANSMITTAL FORM**

**SITE MANAGEMENT MANUAL CONTROLLED DOCUMENT TRANSMITTAL FORM - PROCEDURES**

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 <b>Entergy</b>		<b>CONTROLLED DOCUMENT TRANSMITTAL FORM - PROCEDURES</b>	
<b>TO: DISTRIBUTION</b>		<b>DATE: 12/17/2004</b>	
<b>PHONE NUMBER: 271-7057</b>			
<b>FROM: IPEC DOCUMENT CONTROL</b>			
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<b>AFFECTED DOCUMENT:</b>		<b>IP3 ITS/BASES/TRM UPDATE</b>	
<b>DOC #</b>	<b>REV #</b>	<b>TITLE</b>	<b>INSTRUCTIONS</b>
REPLACE YOUR CURRENT ITS/BASES/TRM WITH THE FOLLOWING ITS/BASES/TRM UPDATE  <b>IP3 TECHNICAL SPECIFICATION BASES (Dated 12/17/04)</b>			
*****PLEASE NOTE EFFECTIVE DATE*****			
RECEIPT OF THE ABOVE LISTED DOCUMENT(S) IS HEREBY ACKNOWLEDGED. I CERTIFY THAT ALL SUPERSEDED, VOID, OR INACTIVE COPIES OF THE ABOVE LISTED DOCUMENT(S) IN MY POSSESSION HAVE BEEN REMOVED FROM USE AND ALL UPDATES HAVE BEEN PERFORMED IN ACCORDANCE WITH EFFECTIVE DATE(S) (IF APPLICABLE) AS SHOWN ON THE DOCUMENT(S).			
<b>NAME (PRINT)</b>	<b>SIGNATURE</b>	<b>DATE</b>	<b>CC#</b> <b>518</b>

## INDIAN POINT 3 TECHNICAL SPECIFICATION BASES

INSTRUCTIONS FOR UPDATE: 11-12/17/04

### REMOVE

- a) List of Effective Sections;  
3 pages (Rev. 10)
- b) Section 3.7.7; Rev. 0  
4 pages

### INSERT

- a) List of Effective Sections;  
3 pages (Rev. 11)
- b) Section 3.7.7; Rev. 1  
4 pages

**TECHNICAL SPECIFICATION BASES  
LIST OF EFFECTIVE SECTIONS**

BASES SECTION	REV	NUMBER OF PAGES	EFFECTIVE DATE
Tbl of Cnt	1	4	05/18/2001
<b>B 2.0 SAFETY LIMITS</b>			
B 2.1.1	0	5	03/19/2001
B 2.1.2	0	4	03/19/2001
<b>B 3.0 LCO AND SR APPLICABILITY</b>			
B 3.0	1	15	09/30/2002
<b>B 3.1 REACTIVITY CONTROL</b>			
B 3.1.1	0	6	03/19/2001
B 3.1.2	0	7	03/19/2001
B 3.1.3	1	7	10/27/2004
B 3.1.4	0	13	03/19/2001
B 3.1.5	0	5	03/19/2001
B 3.1.6	0	6	03/19/2001
B 3.1.7	0	8	03/19/2001
B 3.1.8	0	7	03/19/2001
<b>B 3.2 POWER DISTRIBUTION LIMITS</b>			
B 3.2.1	0	7	03/19/2001
B 3.2.2	0	7	03/19/2001
B 3.2.3	0	9	03/19/2001
B 3.2.4	0	7	03/19/2001
<b>B 3.3 INSTRUMENTATION</b>			
B 3.3.1	1	59	09/30/2002
B 3.3.2	3	45	12/04/2002
B 3.3.3	2	19	09/30/2002
B 3.3.4	0	7	03/19/2001
B 3.3.5	1	6	10/27/2004
B 3.3.6	0	10	03/19/2001
B 3.3.7	0	6	03/19/2001
B 3.3.8	1	4	03/17/2003
<b>B 3.4 REACTOR COOLANT SYSTEM</b>			
B 3.4.1	0	6	03/19/2001
B 3.4.2	0	3	03/19/2001
B 3.4.3	1	9	10/27/2004
B 3.4.4	0	4	03/19/2001
B 3.4.5	0	6	03/19/2001
B 3.4.6	0	6	03/19/2001
B 3.4.7	0	7	03/19/2001
B 3.4.8	0	4	03/19/2001
B 3.4.9	2	5	06/20/2003
B 3.4.10	0	5	03/19/2001
B 3.4.11	0	8	03/19/2001
B 3.4.12	1	20	10/27/2004
B 3.4.13	2	6	11/19/2001
B 3.4.14	0	10	03/19/2001
B 3.4.15	2	7	11/19/2001
B 3.4.16	0	7	03/19/2001
<b>B 3.5 ECCS</b>			
B 3.5.1	1	10	10/27/2004
B 3.5.2	0	13	03/19/2001
B 3.5.3	0	4	03/19/2001
B 3.5.4	0	9	03/19/2001

BASES SECTION	REV	NUMBER OF PAGES	EFFECTIVE DATE
<b>B 3.6 CONTAINMENT</b>			
B 3.6.1	0	5	03/19/2001
B 3.6.2	0	9	03/19/2001
B 3.6.3	0	17	03/19/2001
B 3.6.4	0	3	03/19/2001
B 3.6.5	1	5	06/20/2003
B 3.6.6	1	13	12/04/2002
B 3.6.7	0	6	03/19/2001
B 3.6.8	0	6	03/19/2001
B 3.6.9	0	8	03/19/2001
B 3.6.10	0	12	03/19/2001
<b>B 3.7 PLANT SYSTEMS</b>			
B 3.7.1	1	6	12/04/2002
B 3.7.2	0	10	03/19/2001
B 3.7.3	1	7	05/18/2001
B 3.7.4	0	5	03/19/2001
B 3.7.5	0	11	03/19/2001
B 3.7.6	1	4	12/04/2002
B 3.7.7	1	4	12/17/2004
B 3.7.8	0	7	03/19/2001
B 3.7.9	1	9	09/30/2002
B 3.7.10	0	3	03/19/2001
B 3.7.11	2	9	06/20/2003
B 3.7.12	0	4	03/19/2001
B 3.7.13	2	7	06/20/2003
B 3.7.14	0	3	03/19/2001
B 3.7.15	0	5	03/19/2001
B 3.7.16	0	6	03/19/2001
B 3.7.17	0	4	03/19/2001
<b>B 3.8 ELECTRICAL POWER</b>			
B 3.8.1	1	32	01/22/2002
B 3.8.2	0	7	03/19/2001
B 3.8.3	0	13	03/19/2001
B 3.8.4	1	11	01/22/2002
B 3.8.5	0	4	03/19/2001
B 3.8.6	0	8	03/19/2001
B 3.8.7	1	8	06/20/2003
B 3.8.8	1	4	06/20/2003
B 3.8.9	2	14	06/20/2003
B 3.8.10	0	4	03/19/2001
<b>B 3.9 REFUELING OPERATIONS</b>			
B 3.9.1	0	4	03/19/2001
B 3.9.2	0	4	03/19/2001
B 3.9.3	1	8	03/17/2003
B 3.9.4	0	4	03/19/2001
B 3.9.5	0	4	03/19/2001
B 3.9.6	0	4	03/19/2001

TECHNICAL SPECIFICATION BASES  
REVISION HISTORY

REVISION HISTORY FOR BASES

AFFECTED SECTIONS	REV	EFFECTIVE DATE	DESCRIPTION
ALL	0	03/19/01	Initial issue of Bases derived from NUREG-1431, in conjunction with Technical Specification Amendment 205 for conversion of 'Current Technical Specifications' to 'Improved Technical Specifications'.
<b>BASES UPDATE PACKAGE 01-031901</b>			
B 3.4.13 B 3.4.15	1	03/19/01	Changes regarding containment sump flow monitor per NSE 01-3-018 LWD Rev 0. Change issued concurrent with Rev 0.
<b>BASES UPDATE PACKAGE 02-051801</b>			
Table of Contents	1	05/18/01	Title of Section B 3.7.3 revised per Tech Spec Amend 207
B 3.7.3	1	05/18/01	Implementation of Tech Spec Amend 207
<b>BASES UPDATE PACKAGE 03-111901</b>			
B 3.3.2	1	11/19/01	Correction to statement regarding applicability of Function 5, to be consistent with the Technical Specification.
B 3.3.3	1	11/19/01	Changes to reflect reclassification of certain SG narrow range level instruments as QA Category M per NSE 97-3-439, Rev 1.
B 3.4.13 B 3.4.15	2	11/19/01	Changes to reflect installation of a new control room alarm for 'VC Sump Pump Running'. Changes per NSE 01-3-018, Rev 1 and DCP 01-3-023 LWD.
B 3.7.11	1	11/19/01	Clarification of allowable flowrate for CRVS in 'incident mode with outside air makeup.'
<b>BASES UPDATE PACKAGE 04-012202</b>			
B 3.3.2	2	01/22/02	Clarify starting logic of 32 ABFP per EVL-01-3-078 MULTI, Rev 0.
B 3.8.1	1	01/22/02	Provide additional guidance for SR 3.8.1.1 and Condition Statements A.1 and B.1 per EVL-01-3-078 MULTI, Rev 0.
B 3.8.4	1	01/22/02	Revision of battery design description per plant modification and to reflect Tech Spec Amendment 209.
B 3.8.9	1	01/22/02	Provide additional information regarding MCC in Table B 3.8.9-1 per EVL-01-3-078 MULTI, Rev 0.
<b>BASES UPDATE PACKAGE 05-093002</b>			
B 3.0	1	09/30/02	Changes to reflect Tech Spec Amendment 212 regarding delay period for a missed surveillance. Changes adopt TSTF 358, Rev 6.
B 3.3.1	1	09/30/02	Changes regarding description of turbine runback feature per EVAL-99-3-063 NIS.
B 3.3.3	2	09/30/02	Changes to reflect Tech Spec Amendment 211 regarding CETs and other PAM instruments.
B 3.7.9	1	09/30/02	Changes regarding SWN -35-1 and -2 valves per EVAL-00-3-095 SWS, Rev 0.

**TECHNICAL SPECIFICATION BASES  
REVISION HISTORY**

AFFECTED SECTIONS	REV	EFFECTIVE DATE	DESCRIPTION
BASES UPDATE PACKAGE 06-120402			
B 3.3.2	3	12/04/02	Changes to reflect Tech Spec Amendment 213 regarding 1.4% power uprate.
B 3.6.6	1		
B 3.7.1	1		
B 3.7.6	1		
BASES UPDATE PACKAGE 07-031703			
B 3.3.8	1	03/17/2003	Changes to reflect Tech Spec Amendment 215 regarding implementation of Alternate Source Term analysis methodology to the Fuel Handling Accident
B 3.7.13	1		
B 3.9.3	1		
BASES UPDATE PACKAGE 08-032803			
B 3.4.9	1	03/28/2003	Changes to reflect Tech Spec Amendment 216 regarding relaxation of pressurizer level limits in MODE 3.
BASES UPDATE PACKAGE 09-062003			
B 3.4.9	2	06/20/2003	Changes to reflect commitment for a dedicated operator per Tech Spec Amendment 216.
B 3.6.5	1	06/20/2003	Implements Corrective Action 11 from CR-IP3-2002-02095; 4 FCUs should be in operation to assure representative measurement of containment air temperature.
B 3.7.11	2	06/20/2003	Correction to Background description regarding system response to Firestat detector actuation per ACT 02-62887.
B 3.7.13	2	06/20/2003	Revision to Background description of FSB air tempering units to reflect design change per DCP 95-3-142.
B 3.8.7	1	06/20/2003	Changes to reflect replacement of Inverter 34 per DCP-01-022.
B 3.8.8	1	06/20/2003	
B 3.8.9	2	06/20/2003	
BASES UPDATE PACKAGE 10-102704			
B 3.1.3	1	10/27/2004	Clarification of the surveillance requirements for TS 3.1.3 per 50.59 screen.
B 3.3.5	1	10/27/2004	Clarify the requirements for performing a Trip Actuating Device Operational Test (TADOT) on the 480V degraded grid and undervoltage relays per 50.59 screen.
B 3.4.3	1	10/27/2004	Extension of the RCS pressure/temperature limits and corresponding OPS limits from 16.17 to 20 EFPY (TS Amendment 220).
B 3.4.12	1		
B 3.5.1	1	10/27/2004	Changes to reflect Tech Spec Amendment 222 regarding extension of completion time for Accumulators.
BASES UPDATE PACKAGE 11-121004			
B 3.7.7	1	12/17/2004	Addition of valves CT-1300 and CT-1302 to Surveillance SR 3.7.7.2 to verify that all city water header supply isolation valves are open. Reflects Tech Spec Amendment 218.

## B 3.7 PLANT SYSTEMS

### B 3.7.7 City Water (CW)

#### BASES

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##### BACKGROUND

City Water is the backup to the Condensate Storage Tank (CST) as a water supply for the Auxiliary Feedwater System. The CST, the preferred source of water for the Steam Generators (SGs), is capable of holding up to 600,000 gallons and is sized to meet the normal operating and maintenance needs of the main steam system. LCO 3.7.6, Condensate Storage Tank, requires that a minimum water level is maintained in the CST that is sufficient to remove residual heat for 24 hours at hot shutdown conditions following a trip from full power. The CST is not designed to withstand the effects of a tornado-generated missile. However, the Auxiliary Feedwater System is provided sufficient redundancy of water supplies such that an alternate source of water from the City Water Tank (CWT) is available in the event the CST is damaged by a tornado-generated missile. Only when the CST supply is exhausted or not available will city water be used to supply the Auxiliary Feedwater System.

When the main steam isolation valves are open, the preferred means of heat removal from the RCS is to discharge steam to the condenser via the non-safety grade turbine steam bypass valves (High Pressure Steam Dump) with water supplied from the CST to the SGs using the AFW System. The condensed steam is returned to the CST by the condensate pump. This configuration conserves condensate and minimizes releases to the environment. The CST is the preferred source of water for the SGs.

When the CST supply is exhausted, city water is used to supply the Auxiliary Feedwater System for decay heat removal and plant cooldown. CW, although aligned to the IP3 site, is normally isolated from the AFW pump suctions.

The City Water System includes the site city water header consisting of the 1.5 million gallon city water storage tank and the connection to the offsite water supply. Reference to the CW system as an alternate supply to the Auxiliary Feedwater is found in FSAR, Section 10 (Ref. 1).

(continued)

BASES

APPLICABLE SAFETY ANALYSES

CW can be used to provide cooling water to remove decay heat and to cool down the unit following all events in the accident analysis as discussed in the FSAR; however, it has been established by engineering calculations that 360,000 gallons of water in the CWT is adequate to cooldown the plant from 102% rated thermal power to RHR entry conditions in 10 hours if the CST is not available or depleted. The CST is not designed to withstand the effects of a tornado generated missile and CW is used only when the CST is not available or depleted.

CW satisfies Criterion 3 of 10 CFR 50.36.

LCO

This LCO requires that the CW Tank volume is  $\geq 360,000$  gallons and the isolation valves in the flow path between the CWT and the AFW pumps suction are open. The CWT volume of 360,000 gallons has been determined by calculations to be adequate for a plant cooldown from 102% rated thermal power to RHR entry conditions in 10 hours (Reference 3).

The OPERABILITY of the CW is determined by maintaining the tank volume at or above the minimum required volume and periodic verification that the required lineups can be established.

APPLICABILITY

City Water is required to be OPERABLE in MODES 1, 2, and 3, and in MODE 4, when a steam generator is being relied upon for heat removal. In MODE 5 or 6, CW is not required because the SGs are not normally used to remove decay heat when in these MODES.

ACTIONS

A.1 and A.2

If the CW Tank volume is not within limits or system lineups are not as required, CW cannot be assumed to be available if needed as a backup water source for the CST. With CW not available, OPERABILITY of the CST must be verified by administrative means immediately and once every 12 hours thereafter. Operability of the CST means that LCO 3.7.6, Condensate Storage Tank, is met. The immediate Completion Time for verification of the OPERABILITY of the CST ensures that Condition B is entered immediately if both the CST and City Water

(continued)



BASES

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ACTIONS

A.1 and A.2 (continued)

are inoperable. This ensures that either the CST or CW is available for decay heat removal and to support a plant cooldown. CW must be restored to OPERABLE status within 7 days because CW is assumed to be available to supply the Auxiliary Feedwater System when the CST supply is exhausted. The 7 day Completion Time for restoration of CW is acceptable because the CST is OPERABLE and the low probability of an event requiring CW during the 7 day Completion Time.

B.1 and B.2

If CW cannot be restored to OPERABLE within the Completion Time, the unit must be placed in a MODE in which the LCO does not apply. To achieve this status, the unit must be placed in at least MODE 3 within 6 hours, and in MODE 4, without reliance on the steam generator for heat removal, within 18 hours. The Completion Times are reasonable, based on operating experience, to reach the required unit conditions from full power conditions in an orderly manner and without challenging unit systems.

If Condition B is entered when both the CST and City Water are not Operable, Conditions and Required Actions for LCO 3.7.5, Auxiliary Feedwater System, may be appropriate.

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SURVEILLANCE REQUIREMENTS

SR 3.7.7.1

This SR verifies that the CWT contains a minimum of 360,000 gallons of water. The 24 hour frequency is based on the conditional core damage probability evaluated by Probabilistic Risk Analysis and provides a high degree of assurance of rapid identification of the inoperability of CW.

(continued)

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BASES

SURVEILLANCE REQUIREMENTS (continued)

SR 3.7.7.2

This SR verifies that the valves that isolate Unit 3 from the site city water supply and the city water storage tank are open. The Isolation valves are CT-49, in the IP1 Utility Tunnel, (also identified as valve FP-1227), CT-1300 and CT-1302. SR for CT-49 may be performed by Unit 2 personnel. The 31 day Frequency is acceptable because the valves are sealed open and because periodic verification provided by SR 3.7.7.2 provides a high degree of assurance that the valves are positioned properly.

SR 3.7.7.3

This SR verifies the ability to cycle each valve between CW and the AFW pump suction. These are the only valves required to operate to align CW to the AFW pump suction. The testing requirements and Frequency for this SR are in accordance with the Inservice Testing Program.

REFERENCES

1. FSAR, Chapter 10.
2. Design Basis Document IP3-DBD-303, "Auxiliary Feedwater System".
3. Design Basis Document IP3-DBD-319, "Condensate and Condensate Polishing Systems".
4. IP3-CALC-MW-03548.