Indian Point 3
Nuclear Power Plant
P.O. Box 215
Buchanan, New York 10511

914-736-8000

New York Power Authority

December 4, 1992
IP-NRC-92-097

License No. 50-286
Docket No. DPR-64

Mr. John R. Jolicoeur
ERDS Project Manager
U.S. Nuclear Regulatory Commission
Mail Stop MNBB 3206
Washington, D.C. 20555

Subject: IP3 ERDS

Dear Mr. Jolicoeur:

Testing of our ERDS system with your contractor identified a problem which required a change to our Plant Attribute Library (PAL). The data communication attribute XON/XOFF is not supported by our ERDS data link software. We require that the suspend/resume flow control method be used instead of XON/XOFF. Preliminary testing with our contractor proved that satisfactory communication will occur with suspend/resume. I have attached (Attachment I) a page from the original ERDS Communications Description and Survey Questionnaire showing the change.

Attachment II is the Indian Point 3 Data Point Library to support the emergency response data system.

If you should have any further questions, please contact Roger Harris of my staff at (914) 736-8712.

Very truly yours,

William A. Josiger
Resident Manager
Indian Point 3 Nuclear Power Plant

waj/ac/rj
attachments

140013

A026
1/1

cc: U.S. Nuclear Regulatory Commission (original)
Attn: Document Control Desk
Mail Station P1-137
Washington, DC 20555

IP3 Resident Inspector
Indian Point 3
U.S. Nuclear Regulatory Commission
P.O. Box 337
Buchanan, New York 10511

ATTACHMENT I

REVISION TO IP3 PLANT ATTRIBUTE LIBRARY (PAL) FOR THE EMERGENCY RESPONSE DATA SYSTEM (ERDS)

3. Data Communication Details

a. Can this data feeder provide asynchronous serial data communication (RS-232-C) with full-modem control?

YES

b. Will this feeder transmit in ASCII or EBCDIC?

ASCII

c. Can this feeder transmit at a serial baud rate of 2400 bps? If not, at what baud rate can it transmit?

YES

d. Does the operating system support XON/XOFF flow control?

NO

1. Are any problems foreseen with the NRC using XON/XOFF to control the transmission of data?

YES

e. If it is not feasible to reconfigure a serial port for the ERDS linkup (i.e., change the baud rate, parity, etc.), please explain why.

N/A

f. Do any ports currently exist for the ERDS linkup?

YES

1. If not, is it possible to add additional ports?

N/A

ATTACHMENT II

INDIAN POINT 3 DATA

POINT LIBRARY FOR

THE EMERGENCY RESPONSE

DATA SYSTEM (ERDS)

ERDS Signals

Sequence	Point ID	Description
1	U1169	POWER RANGE NIS POWER
2	N31	SOURCE RANGE DETECTOR 31
3	N32	SOURCE RANGE DETECTOR 32
4	N35	INTERMEDIATE RANGE DETECTOR 35
5	N36	INTERMEDIATE RANGE DETECTOR 36
6	KRVLIS	LOWEST REACTOR VESSEL WATER LEVEL
7	KHCET	HIGHEST CET
8	TMARCETA	CET TEMP SAT MARGIN
9	KAL1F	MEDIAN LOW RCL 31 FLOW
10	KAL2F	MEDIAN LOW RCL 32 FLOW
11	KAL3F	MEDIAN LOW RCL 33 FLOW
12	KAL4F	MEDIAN LOW RCL 34 FLOW
13	LT417D	STEAM GENERATOR #31 W.R. LEVEL
14	LT427D	STEAM GENERATOR #32 W.R. LEVEL
15	LT437D	STEAM GENERATOR #33 W.R. LEVEL
16	LT447D	STEAM GENERATOR #34 W.R. LEVEL
17	KSG31P	MEDIAN HIGH STEAM GENERATOR 31 PRESSURE
18	KSG32P	MEDIAN HIGH STEAM GENERATOR 32 PRESSURE
19	KSG33P	MEDIAN HIGH STEAM GENERATOR 33 PRESSURE
20	KSG34P	MEDIAN HIGH STEAM GENERATOR 34 PRESSURE
21	KSG31MF	MEDIAN LOW MAIN FEED FLOW TO SG31
22	KSG32MF	MEDIAN LOW MAIN FEED FLOW TO SG32
23	KSG33MF	MEDIAN LOW MAIN FEED FLOW TO SG33
24	KSG34MF	MEDIAN LOW MAIN FEED FLOW TO SG34
25	FT1200	AUX FEED FLOW TO SG31
26	FT1201	AUX FEED FLOW TO SG32
27	FT1202	AUX FEED FLOW TO SG33
28	FT1203	AUX FEED FLOW TO SG34
29	TE413B	RCL LOOP #1 COLD LEG TEMP
30	TE423B	RCL LOOP #2 COLD LEG TEMP
31	TE433B	RCL LOOP #3 COLD LEG TEMP
32	TE443B	RCL LOOP #4 COLD LEG TEMP

ERDS Signals (cont'd)

Sequence	Point ID	Description
33	TE413A	RCL LOOP #1 HOT LEG TEMP
34	TE423A	RCL LOOP #2 HOT LEG TEMP
35	TE433A	RCL LOOP #3 HOT LEG TEMP
36	TE443A	RCL LOOP #4 HOT LEG TEMP
37	PT403	RCS FRESSURE LOOP 4
38	PT402	RCS PRESSURE LOOP 1
39	KAVGPZRL	MEDIAN HIGH PRESSURIZER LEVEL
40	KAVGPZL2	MEDIAN LOW PRESSURIZER LEVEL
41	FT128	CHARGING PUMP DISCHARGE FLOW
42	KSIF	TOTAL NON-BIT SAFETY INJECTION FLOW
43	KBSIF	TOTAL BIT SAFETY INJECTION FLOW
44	KRHRF	TOTAL RHR FLOW
45	LT1253	CONTAINMENT LEVEL
46	LT1254	CONTAINMENT LEVEL
47	LT1255	CONTAINMENT SUMP LEVEL
48	LT1256	CONTAINMENT SUMP LEVEL
49	R27	PLANT VENT RADIATION
50	R18	LIQUID WASTE DISPOSAL RADIATION
51	R15	STEAM AIR EJECTOR RADIATION
52	R25	CONTAINMENT HIGH RAD MONITOR 1
53	R26	CONTAINMENT HIGH RAD MONITOR 2
54	R04	CHARGING PUMP ROOM RAD
55	R62A	STEAM LINE 31 RADIATION
56	R62B	STEAM LINE 32 RADIATION
57	R62C	STEAM LINE 33 RADIATION
58	R62D	STEAM LINE 34 RADIATION
59	R19	STEAM GENERATOR BLOWDOWN RADIATION
60	PT1421	CONTAINMENT HIGH PRESSURE
61	PT1422	CONTAINMENT HIGH PRESSURE
62	TC1416	CONTAINMENT AVERAGE TEMPERATURE
63	HCMCA	CONTAINMENT H_2 CONCENTRATION
64	HCMCB	CONTAINMENT H_2 CONCENTRATION
65	LT920	RWST LEVEL

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	NI POWER RNG
Point ID:	U1169
Plant Spec Point Desc.:	POWER RANGE NIS POWER
Generic/Cond Desc.:	NUCLEAR INSTRUMENTS POWER RANGE
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	120.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	4
How Processed:	AVERAGE
Sensor Locations:	OUTSIDE OF CORE ON CRANE WALL
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	AVERAGE OF FOUR POWER RANGE CHANNELS (N41F N42F, N43F, & N44F) EVERY FOUR SECONDS. POINT I.D. U1169 IS ONLY A COMPUTER POINT INPUT NUMBER.

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	NI SOURC RNG
Point ID:	N31
Plant Spec Point Desc.:	SOURCE RANGE DETECTOR 31
Generic/Cond Desc.:	NUCLEAR INSTRUMENTS SOURCE RNG
Analog/Digital:	A
Engr Units/Dig States:	CPS
Engr Units Conversion:	N/A
Minimum Instr Range:	1.000
Maximum Instr Range:	1000.0E + 03
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	OUTSIDE OF CORE ON CRANE WALL
Alarm/Trip Set Points:	HI AT 90.000
NI Detector Power Supply Cut-off Power Level:	7E-11 IR
NI Detector Power Supply Turn-on Power Level:	4E-11 IR
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS SIGNAL IS PROPORTIONAL TO THE LOGARITHM OF THE NUMBER OF PULSES PER UNIT TIME RECEIVED FROM A NEUTRON FLUX PROPORTIONAL COUNTER.

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	NI SOURC RNG
Point ID:	N32
Plant Spec Point Desc.:	SOURCE RANGE DETECTOR 32
Generic/Cond Desc.:	NUCLEAR INSTRUMENTS SOURCE RNG
Analog/Digital:	A
Engr Units/Dig States:	CPS
Engr Units Conversion:	N/A
Minimum Instr Range:	1.000
Maximum Instr Range:	1000.0E + 03
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	OUTSIDE OF CORE ON CRANE WALL
Alarm/Trip Set Points:	HI AT 90.000
NI Detector Power Supply Cut-off Power Level:	7E-11 IR
NI Detector Power Supply Turn-on Power Level:	4E-11 IR
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS SIGNAL IS PROPORTIONAL TO THE LOGARITHM OF THE NUMBER OF PULSES PER UNIT TIME RECEIVED FROM A NEUTRON FLUX PROPORTIONAL COUNTER.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	NI INTER RNG
Point ID:	N35
Plant Spec Point Desc.:	INTERMEDIATE RANGE DETECTOR 35
Generic/Cond Desc.:	NUCLEAR INSTRUMENTS INT RANGE
Analog/Digital:	A
Engr Units/Dig States:	AMPS
Engr Units Conversion:	N/A
Minimum Instr Range:	10.0E-12
Maximum Instr Range:	1000.0E-06
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	OUTSIDE OF CORE ON CRANE WALL
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS SIGNAL IS PROPORTIONAL TO THE LOGARITHM OF THE CURRENT RECEIVED FROM A COMPENSATED ION CHAMBER.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	NI INTER RNG
Point ID:	N36
Plant Spec Point Desc.:	INTERMEDIATE RANGE DETECTOR 36
Generic/Cond Desc.:	NUCLEAR INSTRUMENTS INT RANGE
Analog/Digital:	A
Engr Units/Dig States:	AMPS
Engr Units Conversion:	N/A
Minimum Instr Range:	10.0E-12
Maximum Instr Range:	1000.0E-06
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	OUTSIDE OF CORE ON CRANE WALL
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS SIGNAL IS PROPORTIONAL TO THE LOGARITHM OF THE CURRENT RECEIVED FROM A COMPENSATED ION CHAMBER.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	REAC VES LEV
Point ID:	KRVLIS
Plant Spec Point Desc.:	LOWEST REACTOR VESSEL WATER LEVEL
Generic/Cond Desc.:	REACTOR VESSEL WATER LEVEL
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	120.0
Zero Point Reference:	TNKBOT
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	4
How Processed:	LOWEST
Sensor Locations:	TOP & BOTTOM OF VESSEL
Alarm/Trip Set Points:	LO AT 65.0
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	Y
Level Reference Leg:	WET
Unique System Desc:	IF AT LEAST ONE RCP FLOW IS GREATER THAN OR EQUAL TO 91% THIS POINT IS THE LOWEST OF 2 DYNAMIC RANGE SIGNALS. OTHERWISE IT IS THE LOWEST OF 2 FULL RANGE SIGNALS. THE POINT IS FLAGGED UNRELIABLE IF NEITHER SIGNAL OF THE APPLICABLE PAIR IS GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	TEMP CORE EX
Point ID:	KHCET
Plant Spec Point Desc.:	HIGHEST CET
Generic/Cond Desc.:	HIGHEST TEMPERATURE AT CORE EXIT
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	32.0
Maximum Instr Range:	2300.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	65
How Processed:	HIGHEST
Sensor Locations:	EXIT OF SELECTED FUEL ASSEMBLIES IN CORE
Alarm/Trip Set Points:	HI / HI AT 700.0
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THE HIGHEST VALVE OF 32 OR MORE IN CORE THERMOCOUPLE SIGNALS IS USED FOR THIS POINT. THE POINT IS FLAGGED UNRELIABLE IF LESS THAN 32 SIGNALS ARE GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	SUB MARGIN
Point ID:	TMARCETA
Plant Spec Point Desc.:	CET TEMP SAT MARGIN
Generic/Cond Desc.:	SATURATION TEMP-HIGHEST CET
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	-50
Maximum Instr Range:	400
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	4
How Processed:	SEE SYSTEM DESC.
Sensor Locations:	PRZR PRESS, RCS PRESS & INCORE T/C'S
Alarm/Trip Set Points:	LO/LO AT 20
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SET PIN EQUAL TO 14.7 PLUS THE MINIMUM VALUE OF 2 RCS PRESS SIGNALS AND THE AVERAGE PRZR PRESS SIGNAL. INTERPOLATE THE STEAM TABLE TO FIND THE SAT TEMP (TSAT) FOR THE VALUE OF PIN. SUBTRACT THE VALUE OF THE AVERAGE CORE EXIT TEMP SIGNAL FROM TSAT TO GET TMARCETA. THE POINT IS FLAGGED UNRELIABLE IF ANY OF THE 4 INPUT SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CORE FLOW
Point ID:	KAL1F
Piant Spec Point Desc.:	MEDIAN RCL 31 FLOW
Generic/Cond Desc.:	TOTAL REACTOR COOLANT FLOW
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	0-443.4" H_2O
Minimum Instr Range:	0.0
Maximum Instr Range:	120.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	STM GEN 31 DISCH UPSTRM OF RCP
Alarm/Trip Set Points:	LO AT 92.0 HI AT 115.0
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE MEDIAN OF 3 FLOW SIGNALS FOR RCS LOOP 1 THE POINT IS FLAGGED UNRELIABLE IF ALL 3 SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CORE FLOW
Point ID:	KAL2F
Plant Spec Point Desc.:	MEDIAN RCL 32 FLOW
Generic/Cond Desc.:	TOTAL REACTOR COOLANT FLOW
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	0-406.1" H_2O
Minimum Instr Range:	0.0
Maximum Instr Range:	120.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	STM GEN 32 DISCH UPSTRM OF RCP
Alarm/Trip Set Points:	LO AT 92.0 HI AT 115.0
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE MEDIAN OF 3 FLOW SIGNALS FOR RCS LOOP 2. THE POINT IS FLAGGED UNRELIABLE IF ALL 3 SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CORE FLOW
Point ID:	KAL3F
Plant Spec Point Desc.:	MEDIAN RCL 33 FLOW
Generic/Cond Desc.:	TOTAL REACTOR COOLANT FLOW
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	0-435.5" H_2O
Minimum Instr Range:	0.0
Maximum Instr Range:	120.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	STM GEN 33 DISCH UPSTRM OF RCP
Alarm/Trip Set Points:	LO AT 92.0 HI AT 115.0
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE MEDIAN OF 3 FLOW SIGNALS FOR RCS LOOP 3. THE POINT IS FLAGGED UNRELIABLE IF ALL 3 SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CORE FLOW
Point ID:	KAL4F
Plant Spec Point Desc.:	MEDIAN RCL 34 FLOW
Generic/Cond Desc.:	TOTAL REACTOR COOLANT FLOW
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	0-424.6" H_2O
Minimum Instr Range:	0.0
Maximum Instr Range:	120.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	STM GEN 34 DISCH UPSTRM OF RCP
Alarm/Trip Set Points:	LO AT 92.0 HI AT 115.0
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE MEDIAN OF 3 FLOW SIGNALS FOR RCS LOOP 4. THE POINT IS FLAGGED UNRELIABLE IF ALL 3 SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

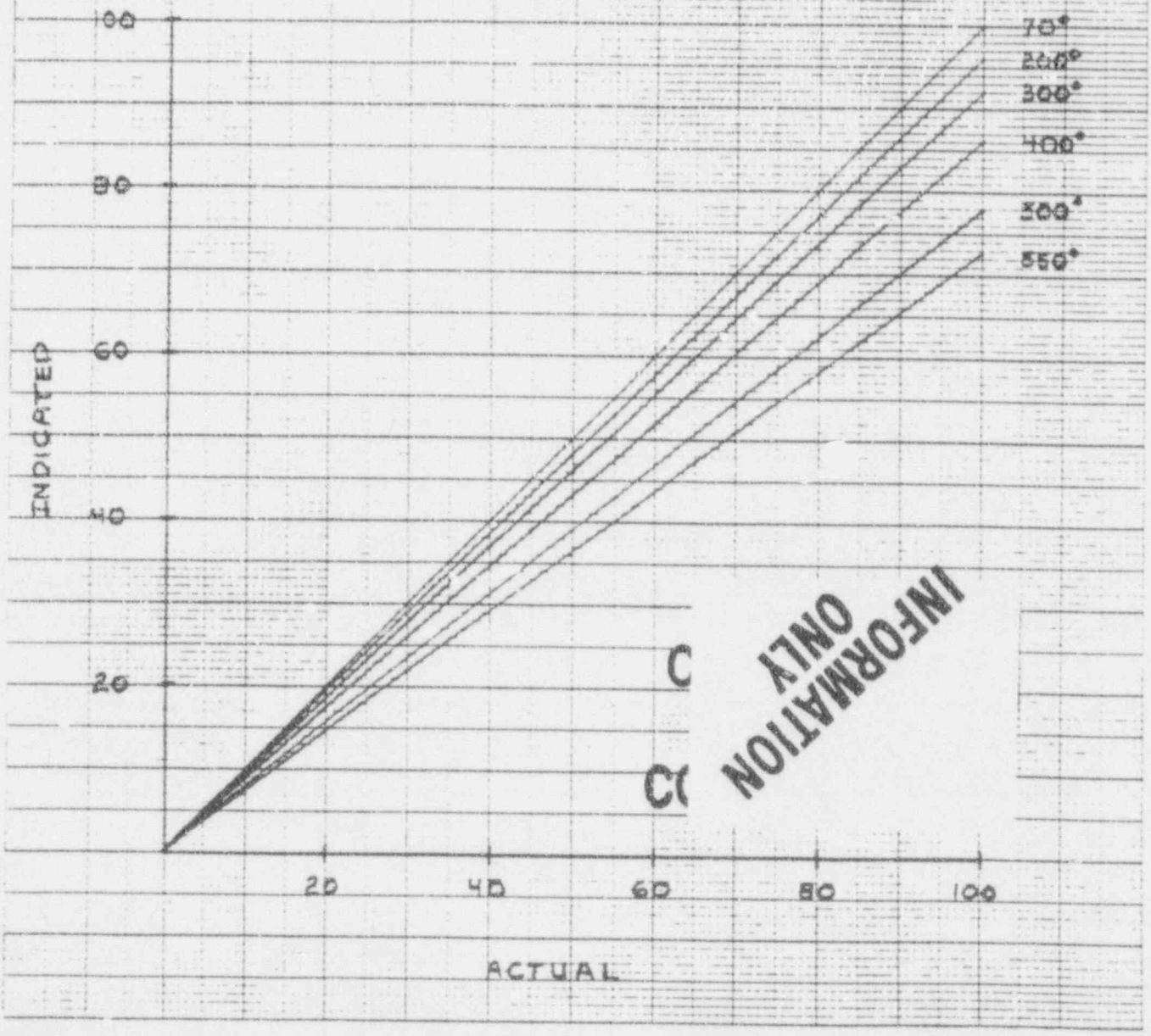
Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	SG LEVEL 1/A
Point ID:	LT417D
Plant Spec Point Desc.:	STEAM GEN 31 W.R. LEVEL
Generic/Cond Desc.:	STEAM GENERATOR 1 WATER LEVEL
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	0-516" H_2O
Minimum Instr Range:	0.0
Maximum Instr Range:	100.0
Zero Point Reference:	TUBSHT
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	EL 95 CNTMNT
Alarm/Trip Set Points:	LO AT 43.0 HI AT 55.0
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	N
Level Reference Leg:	WET
Unique System Desc:	INSTRUMENT IS CALIBRATED COLD. SEE ATTACHED GRAPH FOR ACTUAL LEVEL.

STEAM GENERATOR
WIDE RANGE LEVEL

COLD CALIBRATION AT 70°F

Written by: [signature]
Reviewed by: [signature]
Approved by: [signature]
PORC Review [illegible]
Effective Date [illegible]

LT-417D
LT-427D
LT-437D
LT-447D



DATA POINT LIBRARY REFERENCE FILE

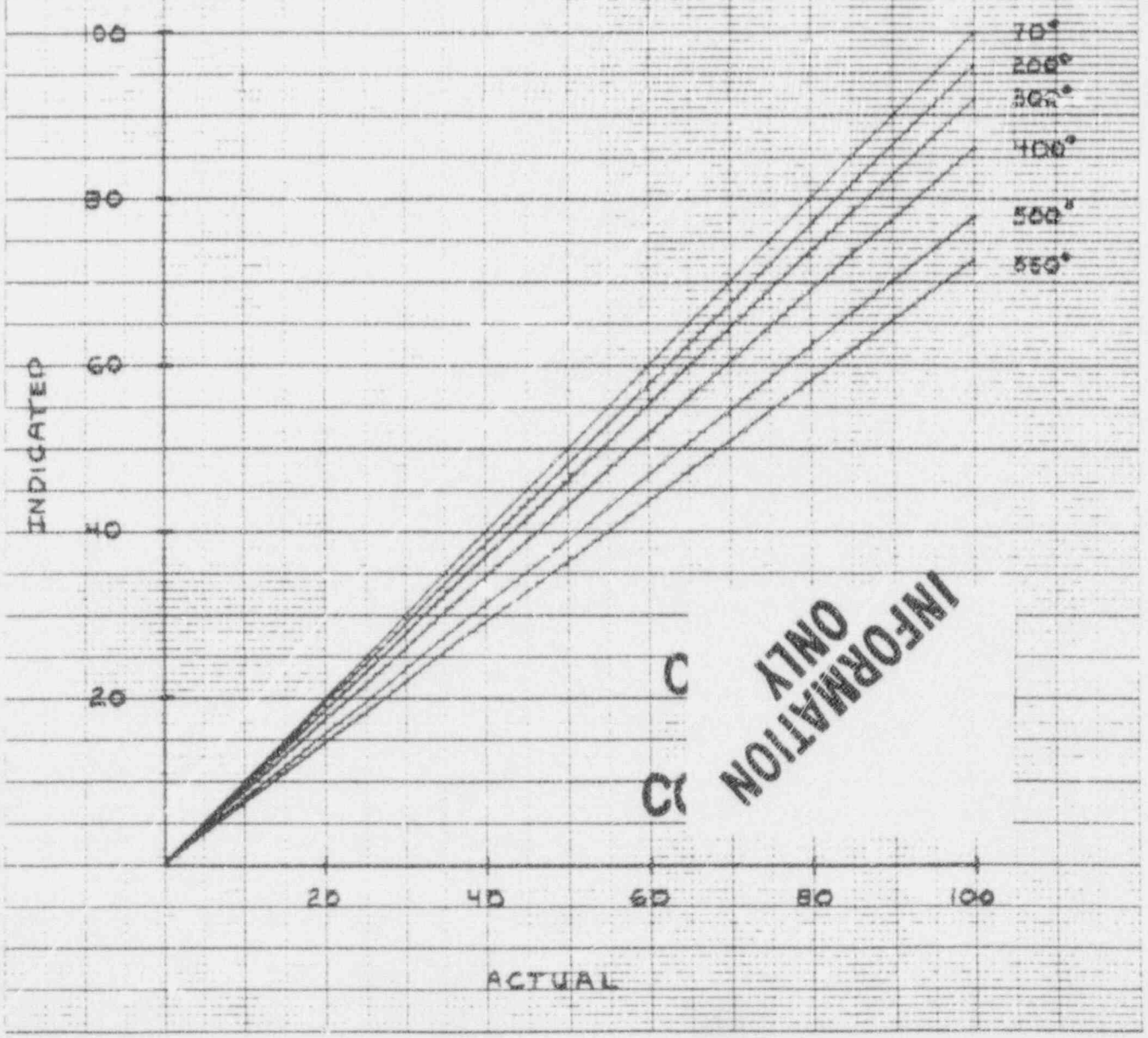
Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	SG LEVEL 2/B
Point ID:	LT427D
Plant Spec Point Desc.:	STEAM GEN 32 W.R. LEVEL
Generic/Cond Desc.:	STEAM GENERATOR 2 WATER LEVEL
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	0-516" H_2O
Minimum Instr Range:	0.0
Maximum Instr Range:	100.0
Zero Point Reference:	TUBSHT
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	EL 95 CNTMNT
Alarm/Trip Set Points:	LO AT 43.0 HI AT 55.0
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	N
Level Reference Leg:	WET
Unique System Desc:	INSTRUMENT IS CALIBRATED COLD. SEE ATTACHED GRAPH FOR ACTUAL LEVEL.

STEAM GENERATOR
WIDE RANGE LEVEL

COLD CALIBRATION AT 70°F

Written by:
Reviewed by: J. Cannon II
Approved by:
PORC Review
Effective Date

LT-417D
LT-427D
LT-437D
LT-447D



INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

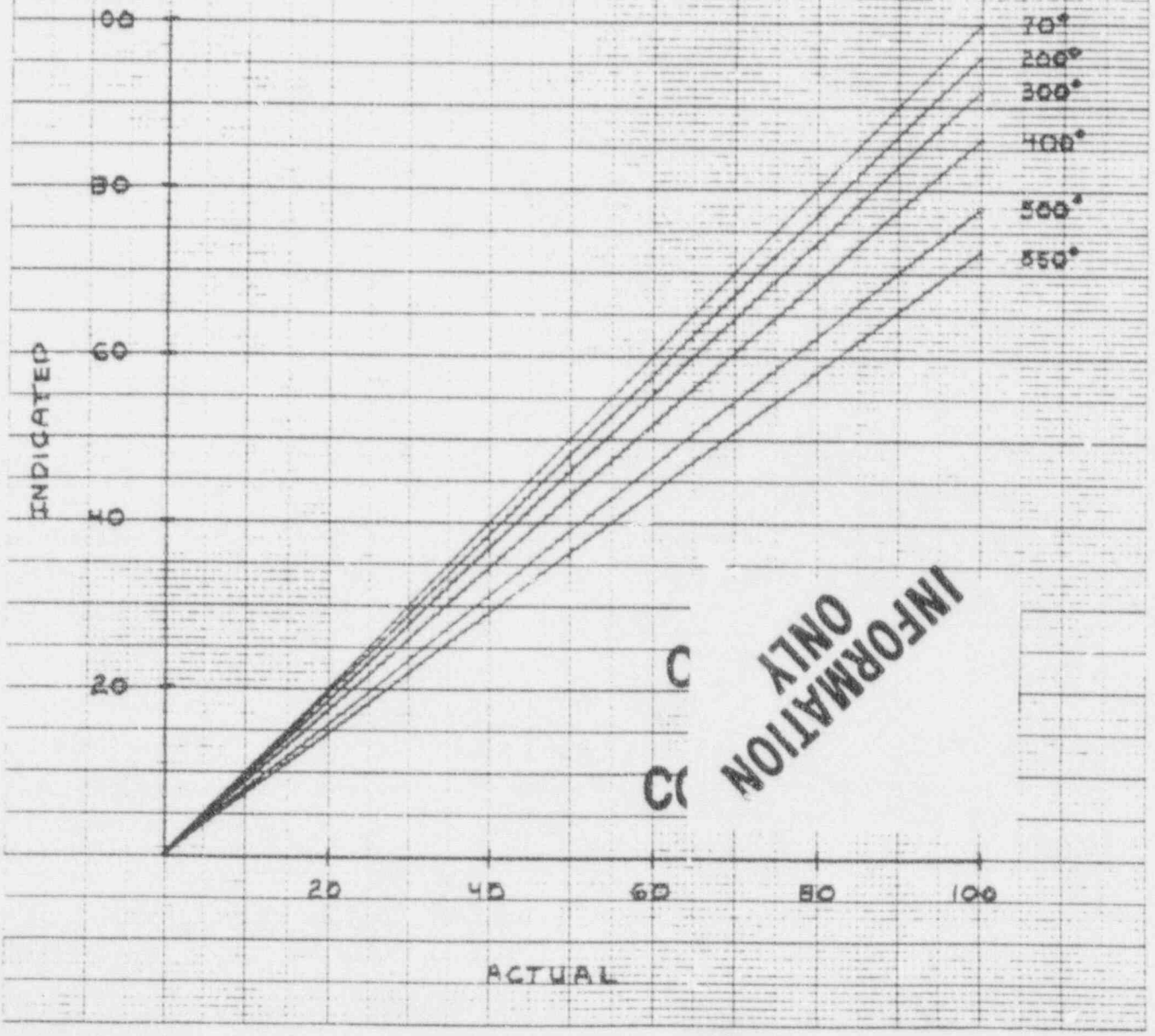
Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	SG LEVEL 3/C
Point ID:	LT437D
Plant Spec Point Desc.:	STEAM GEN 33 W.R. LEVEL
Generic/Cond Desc.:	STEAM GENERATOR 3 WATER LEVEL
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	0-516" H_2O
Minimum Instr Range:	0.0
Maximum Instr Range:	100.0
Zero Point Reference:	TUBSHT
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	EL 95 CNTMNT
Alarm/Trip Set Points:	LO AT 43.0 HI AT 55.0
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	N
Level Reference Leg:	WET
Unique System Desc:	INSTRUMENT IS CALIBRATED COLD. SEE ATTACHED GRAPH FOR ACTUAL LEVEL.

STEAM GENERATOR
WIDE RANGE LEVEL

COLD CALIBRATION AT 70°F

Written by: [signature]
Reviewed by: [signature]
Approved by: [signature]
PORC Review [illegible]
Effective Date [illegible]

LT-417D
LT-427D
LT-437D
LT-447D



DATA POINT LIBRARY REFERENCE FILE

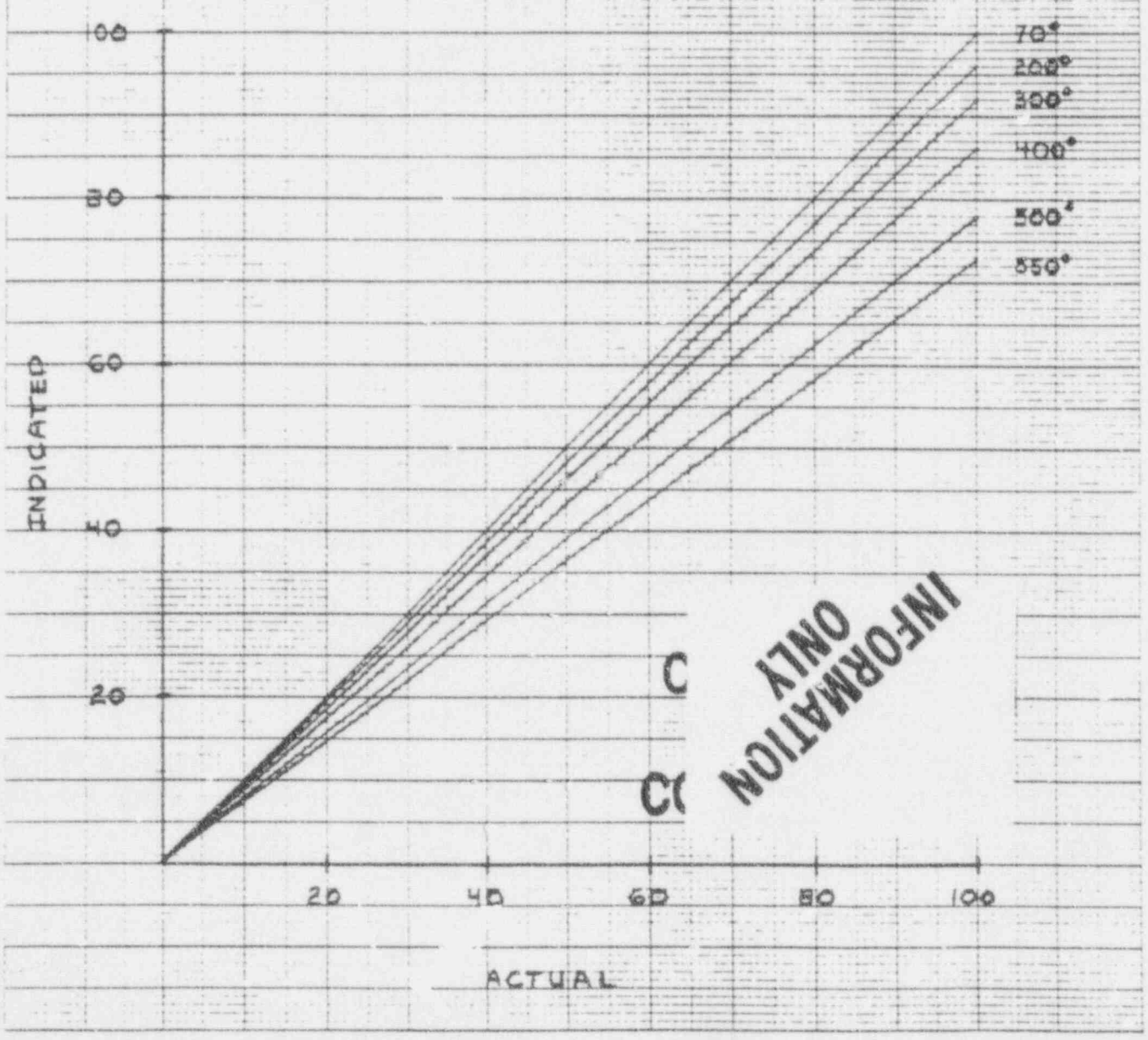
Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC EHDS Parameter:	SG LEVEL 4/D
Point ID:	LT447D
Plant Spec Point Desc.:	STEAM GEN 34 W.R. LEVEL
Generic/Cond Desc.:	STEAM GENERATOR 4 WATER LEVEL
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	0-516" H_2O
Minimum Range:	0.0
Maximum Instr Range:	100.0
Zero Point Reference:	TUBSHT
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	EL 95 CNTMNT
Alarm/Trip Set Points:	LO AT 43.0 HI AT 55.0
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	N
Level Reference Leg:	WET
Unique System Desc:	INSTRUMENT IS CALIBRATED COLD. SEE ATTACHED GRAPH FOR ACTUAL LEVEL.

STEAM GENERATOR
WIDE RANGE LEVEL

COLD CALIBRATION AT 70°F

Written by: [signature]
Reviewed by: [signature]
Approved by: [signature]
PORC Review [illegible]
Effective Date [illegible]

LT-417D
LT-427D
LT-437D
LT-447D



INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	SG PRESS 1/A
Point ID:	KSG31P
Plant Spec Point Desc.:	MEDIAN SG 31 PRESSURE
Generic/Cond Desc.:	STEAM GENERATOR 1 PRESSURE
Analog/Digital:	A
Engr Units/Dig States:	PSIG
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	1400.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	STM GEN 31 DISCH HDR
Alarm/Trip Set Points:	LO AT 640 HI AT 1380
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE MEDIAN OF 3 PRESS SIGNALS FOR STM GEN 31 OUTPUT. THE POINT IS FLAGGED UNRELIABLE IF ALL 3 SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	SG PRESS 2/B
Point ID:	KSG32P
Plant Spec Point Desc.:	MEDIAN SG 32 PRESSURE
Generic/Cond Desc.:	STEAM GENERATOR 2 PRESSURE
Analog/Digit.:	A
Engr Units/Dig States:	PSIG
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	1400.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	STM GEN 32 DISCH HDR
Alarm/Trip Set Points:	LO AT 640 HI AT 1380
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE MEDIAN OF 3 PRESS SIGNALS FOR STM GEN 32 OUTPUT. THE POINT IS FLAGGED UNRELIABLE IF ALL 3 SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	SG PRESS 3/C
Point ID:	KSG33P
Plant Spec Point Desc.:	MEDIAN SG 33 PRESSURE
Generic/Cond Desc.:	STEAM GENERATOR 3 PRESSURE
Analog/Digital:	A
Engr Units/Dig States:	PSIG
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	1400.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	STM GEN 33 DISCH HDR
Alarm/Trip Set Points:	LO AT 640 HI AT 1380
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE MEDIAN OF 3 PRESS SIGNALS FOR STM GEN 33 OUTPUT. THE POINT IS FLAGGED UNRELIABLE IF ALL 3 SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	SG PRESS 4/D
Point ID:	KSG34P
Plant Spec Point Desc.:	MEDIAN SG 34 PRESSURE
Generic/Cond Desc.:	STEAM GENERATOR 4 PRESSURE
Analog/Digital:	A
Engr Units/Dig States:	PSIG
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	1400.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	STM GEN 34 DISCH HDR
Alarm/Trip Set Points:	LO AT 640 HI AT 1380
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE MEDIAN OF 3 PRESS SIGNALS FOR STM GEN 34 OUTPUT. THE POINT IS FLAGGED UNRELIABLE IF ALL 3 SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	MN FD FL 1/A
Point ID:	KSG31MF
Plant Spec Point Desc.:	MEDIAN MAIN FEED FLOW TO SG31
Generic/Cond Desc.:	STM GEN 1 MAIN FEEDWATER FLOW
Analog/Digital:	A
Engr Units/Dig States:	KLB/HR
Engr Units Conversion:	0-300" H_2O
Minimum Instr Range:	0
Maximum Instr Range:	4000
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	UPSTRM OF STM GEN 31 MAIN INLET HDR
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE MEDIAN OF 3 FLOW SIGNALS FOR STM GEN 31 MAIN FEED INLET. TWO OF THE SIGNALS ARE DERIVED FROM DP TRANSMITTERS AND THE THIRD IS ULTRASONIC. THE POINT IS FLAGGED UNRELIABLE IF ALL 3 SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	MN FD FL 2/B
Point ID:	KSG32MF
Plant Spec Point Desc.:	MEDIAN MAIN FEED FLOW TO SG32
Generic/Cond Desc.:	STM GEN 2 MAIN FEEDWATER FLOW
Analog/Digital:	A
Engr Units/Dig States:	KLB/HR
Engr Units Conversion:	0-300" H_2O
Minimum Instr Range:	0
Maximum Instr Range:	4000
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	UPSTRM OF STM GEN 32 MAIN INLET HDR
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE MEDIAN OF 3 FLOW SIGNALS FOR STM GEN 32 MAIN FEED INLET. TWO OF THE SIGNALS ARE DERIVED FROM DP TRANSMITTERS AND THE THIRD IS ULTRASONIC. THE POINT IS FLAGGED UNRELIABLE IF ALL 3 SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reacto Unit:	IP3
Dat[illegible]:	N/A
NRC ERDS Parameter:	MN FD FL 3/C
Point ID:	KSG33MF
Plant Specific Desc.:	MEDIAN MAIN FEED FLOW TO SG33
Generic/Cond Desc.:	STM GEN 3 MAIN FEEDWATER FLOW
Analog/Digital:	A
Engr Units/Dig States:	KLB/HR
Engr Units Conversion:	0-300" H_2O
Minimum Instr Range:	0
Maximum Instr Range:	4000
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	UPSTRM OF STM GEN 33 MAIN INLET HDR
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE MEDIAN OF 3 FLOW SIGNALS FOR STM GEN 33 MAIN FEED INLET. TWO OF THE SIGNALS ARE DERIVED FROM DP TRANSMITTERS AND THE THIRD IS ULTRASONIC. THE POINT IS FLAGGED UNRELIABLE IF ALL 3 SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	MN FD FL 4/D
Point ID:	KSG34MF
Plant Spec Point Desc.:	MEDIAN MAIN FEED FLOW TO SG34
Generic/Cond Desc.:	STM GEN 3 MAIN FEEDWATER FLOW
Analog/Digital:	A
Engr Units/Dig States:	KLB/HR
Engr Units Conversion:	0-300" H_2O
Minimum Instr Range:	0
Maximum Instr Range:	4000
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	UPSTRM OF STM GEN 34 MAIN INLET HDR
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE MEDIAN OF 3 FLOW SIGNALS FOR STM GEN 34 MAIN FEED INLET. TWO OF THE SIGNALS ARE DERIVED FROM DP TRANSMITTERS AND THE THIRD IS ULTRASONIC. THE POINT IS FLAGGED UNRELIABLE IF ALL 3 SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	AX FD FL 1/A
Point ID:	FT1200
Plant Spec Point Desc.:	AUX FEED FLOW TO SG31
Generic/Cond Desc.:	STM GEN 1 AUXILIARY FW FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	450.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	UPSTRM OF STM GEN 31 AUX FEED INLET
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES AUX FW FLOW INTO STM GEN 31 MAIN FW INLET HDR.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	AX FD FL 2/B
Point ID:	FT1201
Plant Spec Point Desc.:	AUX FEED FLOW TO SG32
Generic/Cond Desc.:	STM GEN 2 AUXILIARY FW FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	450.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	UPSTRM OF STM GEN 32 AUX FEED INLET
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES AUX FW FLOW INTO STM GEN 32 MAIN FW INLET HDR.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	AX FD FL 3/C
Point ID:	FT1202
Plant Spec Point Desc.:	AUX FEED FLOW TO SG33
Generic/Cond Desc.:	STM GEN 3 AUXILIARY FW FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	450.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	UPSTRM OF STM GEN 33 AUX FEED INLET
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES AUX FW FLOW INTO STM GEN 33 MAIN FW INLET HDR.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	AX FD FL 4/D
Point ID:	FT1203
Plant Spec Point Desc.:	AUX FEED FLOW TO SG34
Generic/Cond Desc.:	STM GEN 4 AUXILIARY FW FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	450.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	UPSTRM OF STM GEN 34 AUX FEED INLET
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES AUX FW FLOW INTO STM GEN 34 MAIN FW INLET HDR.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CL TEMP 1/A
Point ID:	TE413B
Plant Spec Point Desc.:	RCL LOOP 1 COLD LEG TEMP
Generic/Cond Desc.:	STM GEN 1 OUTLET TEMPERATURE
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	700.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	RCS LOOP 1 COLD LEG
Alarm/Trip Set Points:	HI/HI AT 700.00
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES RCS LOOP 1 COLD LEG TEMP DWSTRM OF RCP 31.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CL TEMP 2/B
Point ID:	TE423B
Plant Spec Point Desc.:	RCL LOOP 2 COLD LEG TEMP
Generic/Cond Desc.:	STM GEN 2 OUTLET TEMPERATURE
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	700.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	RCS LOOP 2 COLD LEG
Alarm/Trip Set Points:	HI/HI AT 700.00
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES RCS LOOP 2 COLD LEG TEMP DWSTRM OF RCP 32.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CL TEMP 3/C
Point ID:	TE433B
Plant Spec Point Desc.:	RCL LOOP 3 COLD LEG TEMP
Generic/Cond Desc.:	STM GEN 3 OUTLET TEMPERATURE
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	700.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	RCS LOOP 3 COLD LEG
Alarm/Trip Set Points:	HI/HI AT 700.00
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES RCS LOOP 3 COLD LEG TEMP DWSTRM OF RCP 33.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CL TEMP 4/D
Point ID:	TE443B
Plant Spec Point Desc.:	RCL LOOP 4 COLD LEG TEMP
Generic/Cond Desc.:	STM GEN 4 OUTLET TEMPERATURE
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	700.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	RCS LOOP 4 COLD LEG
Alarm/Trip Set Points:	HI/HI AT 700.00
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES RCS LOOP 4 COLD LEG TEMP DWSTRM OF RCP 34.

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	HL TEMP 1/A
Point ID:	TE413A
Plant Spec Point Desc.:	RCL LOOP 1 HOT LEG TEMP
Generic/Cond Desc.:	STM GEN 1 INLET TEMPERATURE
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	700.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	RCS LOOP 1 HOT LEG
Alarm/Trip Set Points:	HI/HI AT 700.00
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES RCS LOOP 1 HOT LEG TEMP UPSTRM OF STM GEN 31.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	HL TEMP 2/B
Point ID:	TE423A
Plant Spec Point Desc.:	RCL LOOP 2 HOT LEG TEMP
Generic/Cond Desc.:	STM GEN 2 INLET TEMPERATURE
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	700.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	RCS LOOP 2 HOT LEG
Alarm/Trip Set Points:	HI/HI AT 700.00
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES RCS LOOP 2 HOT LEG TEMP UPSTRM OF STM GEN 32.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	HL TEMP 3/C
Point ID:	TE433A
Plant Spec Point Desc.:	RCL LOOP 3 HOT LEG TEMP
Generic/Cond Desc.:	STM GEN 3 INLET TEMPERATURE
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	700.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	RCS LOOP 3 HOT LEG
Alarm/Trip Set Points:	HI/HI AT 700.00
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES RCS LOOP 3 HOT LEG TEMP UPSTRM OF STM GEN 33.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	HL TEMP 4/D
Point ID:	TE443A
Plant Spec Point Desc.:	RCL LOOP 4 HOT LEG TEMP
Generic/Cond Desc.:	STM GEN 4 INLET TEMPERATURE
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	700.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	RCS LOOP 4 HOT LEG
Alarm/Trip Set Points:	HI/HI AT 700.00
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES RCS LOOP 4 HOT LEG TEMP UPSTRM OF STM GEN 34.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	RCS PRESSURE
Point ID:	PT403
Plant Spec Point Desc.:	RCS PRESSURE LOOP 4
Generic/Cmid Desc.:	REACTOR COOLANT SYSTEM PRESSURE
Analog/Digital:	A
Engr Units/Dig States:	PSIG
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	3000.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	RCS LOOP 4 HOT LEG
Alarm/Trip Set Points:	HI AT 2290 HI/HI AT 2320
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES RCS LOOP 4 HOT LEG PRESSURE UPSTRM OF STM GEN 34.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

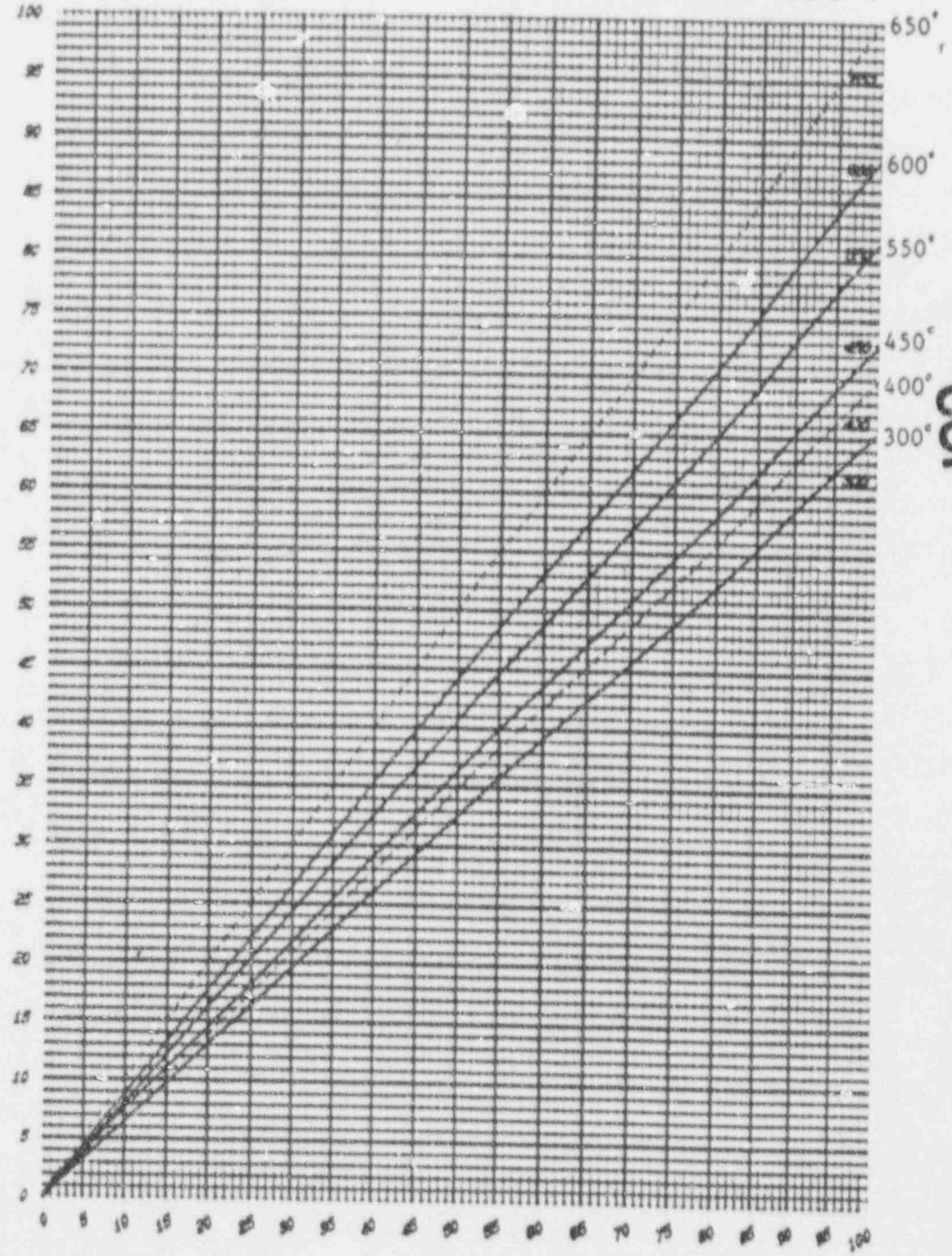
Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	RCS PRESSURE
Point ID:	PT402
Plant Spec Point Desc.:	RCS PRESSURE LOOP 1
Generic/Cond Desc.:	REACTOR COOLANT SYSTEM PRESSURE
Analog/Digital:	A
Engr Units/Dig States:	PSIG
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	3000.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	RCS LOOP 1 HOT LEG
Alarm/Trip Set Points:	HI AT 2290 HI/HI AT 2320
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES RCS LOOP 1 HOT LEG PRESSURE UPSTRM OF STM GEN 31.

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	PRZR LEVEL
Point ID:	KAVGPZRL
Plant Spec Point Desc.:	MEDIAN PRZR LEVEL
Generic/Cond Desc.:	PRIMARY SYSTEM PRZR LEVEL
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	58.1 - 321.8" H_2O
Minimum Instr Range:	0.0
Maximum Instr Range:	100.0
Zero Point Reference:	TNKBOT
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	EL68 CNTMNT
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	N
Level Reference Leg:	WET
Unique System Desc:	THIS POINT IS THE MEDIAN OF THREE W.R LEVEL SIGNALS (CALIBRATED FOR 650°F - SEE ATTACHED GRAPH). THE POINT IS FLAGGED UNRELIABLE IF ALL THREE SIGNALS ARE NOT GOOD.

GRAPH RCS-3A (REV. 1)

DENSITY COMPENSATION FOR HOT CALIBRATED LT-459, LT-460, AND LT-461 @ 650° F



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Reviewed By: [signature] Date 7/29/87
PORC Review MEETING 87-82 Date 7/29/87
Approved By [signature] Date 7/29/87
Effective Date 7/30/87

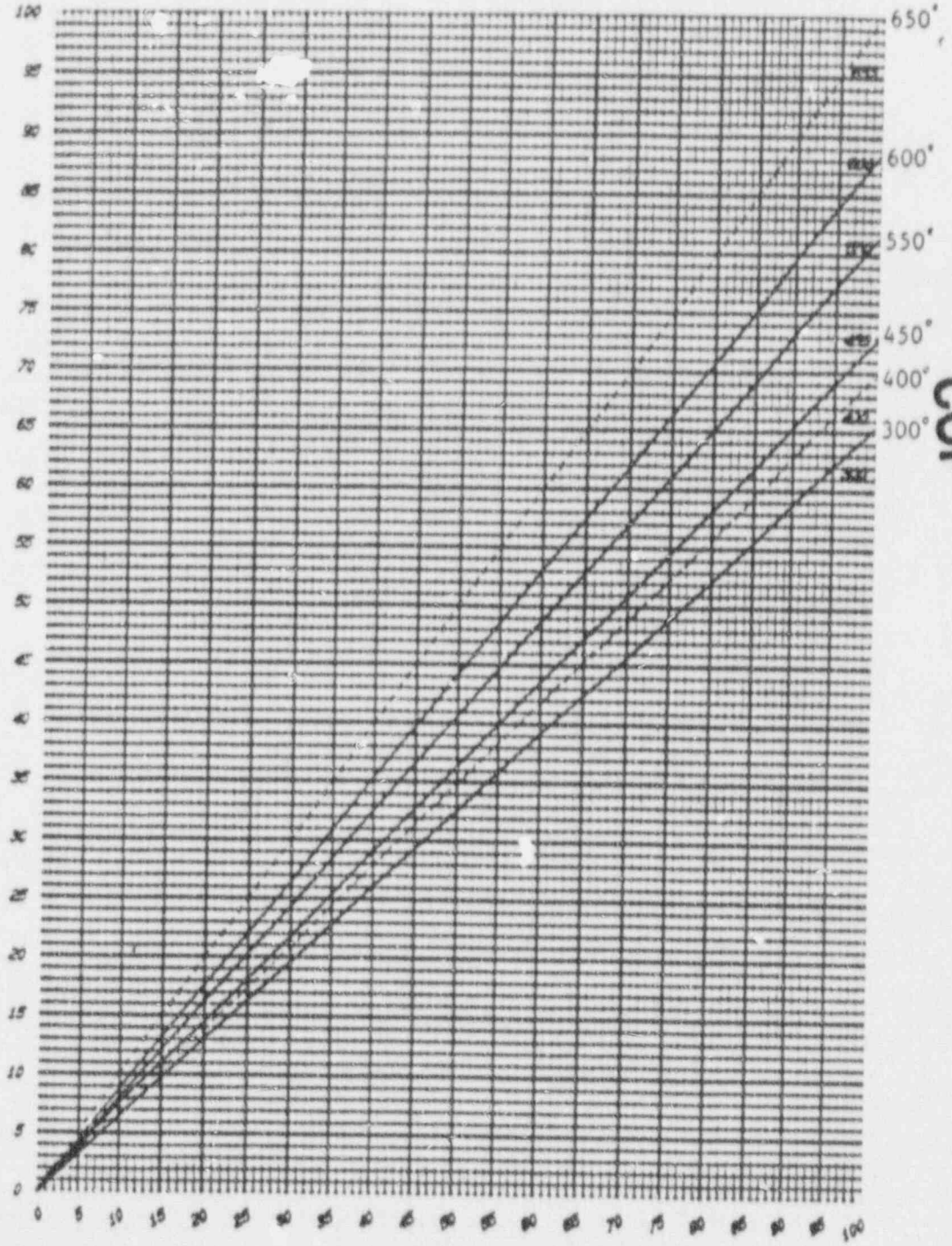
NOTE: ALL TEMPERATURES REFER TO PRESSURIZER TEMPERATURE IN DEGREES FAHRENHEIT

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	PRZR LEVEL
Point ID:	KAVGPZL2
Plant Spec Point Desc.:	MEDIAN PRZR LEVEL
Generic/Cond Desc.:	PRIMARY SYSTEM PRZR LEVEL
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	58.1 - 321.8" H_2O
Minimum Instr Range:	0.0
Maximum Instr Range:	100.0
Zero Point Reference:	TNKBOT
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	3
How Processed:	MEDIAN
Sensor Locations:	EL 68 CNTMNT
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	N
Level Reference Leg:	WET
Unique System Desc:	THIS POINT IS THE MEDIAN OF THREE W.R LEVEL SIGNALS (CALIBRATED FOR 650°F - SEE ATTACHED GRAPH). THE POINT IS FLAGGED UNRELIABLE IF ALL THREE SIGNALS ARE NOT GOOD.

GRAPH RCS-3A (REV. 1)

DENSITY COMPENSATION FOR HOT CALIBRATED LT-459, LT-460, AND LT-461 @ 650°F



COPY INFORMATION ONLY

NOTE: ALL TEMPERATURES REFER TO PRESSURIZER TEMPERATURE IN DEGREES FAHRENHEIT

Written By: [signature] Date 1/20/82
Reviewed By: [signature] Date 1/20/82
PORC Review [signature] Date 1/20/82
Approved By [signature] Date 1/20/82
Effective Date 1/20/82

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	RCS CHG/MU
Point ID:	FT128
Plant Spec Point Desc.:	CHARGING PUMP DISCHARGE FLOW
Generic/Cond Desc.:	PRIM SYS CHARGING OR MAKEUP FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	125.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	CHARGING LINE UPSTRM OF REGEN HX
Alarm/Trip Set Points:	HI/HI AT 125.0
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	SENSES TOTAL CHARGING FLOW TO REGENERATE HX.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	NOT LISTED
Point ID:	KSIF
Plant Spec Point Desc.:	TOTAL NON-BIT SAFETY INJECTION FLOW
Generic/Cond Desc.:	TOTAL SI FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	1200
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	4
How Processed:	SUM
Sensor Locations:	UPSTRM OF INJ POINT TO COLD LEG 1 THRU 4
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation for DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE SUM OF 4 NON-BIT SI FLOW SIGNALS. ONE SIGNAL FOR EACH COLD LEG INJECTION LINE. THE SIGNAL IS FLAGGED UNRELIABLE IF MORE THAN TWO SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	NOT LISTED
Point ID:	KBSIF
Plant Spec Point Desc.:	TOTAL BIT SAFETY INJECTION FLOW
Generic/Cond Desc.:	TOTAL SI FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	1200
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	4
How Processed:	SUM
Sensor Locations:	UPSTRM OF INJ POINT TO COLD LEG 1 THRU 4
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE SUM OF 4 BORONATED SI FLOW SIGNALS FOR EACH COLD LEG INJECTION LINE. THE SIGNAL IS FLAGGED UNRELIABLE IF MORE THAN TWO SIGNALS ARE NOT GOOD.

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	NOT LISTED
Point ID:	KRHRF
Plant Spec Point Desc.:	TOTAL RHR FLOW
Generic/Cond Desc.:	TOTAL RHR FLOW
Analog/Digital:	A
Engr Units/Dig States:	GPM
Engr Units Conversion:	N/A
Minimum Instr Range:	0
Maximum Instr Range:	4000
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors.	4
How Processed:	SUM
Sensor Locations:	RHR REC TO COLD LEG 1 THRU 4
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS THE SUM OF 4 RHR FLOW SIGNALS. ONE SIGNAL FOR EACH COLD LEG RECIRC LINE THE SIGNAL IS FLAGGED UNRELIABLE IF MORE THAN TWO SIGNALS ARE NOT GOOD.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	NOT LISTED
Point ID:	LT1253
Plant Spec Point Desc.:	CONTAINMENT LEVEL
Generic/Cond Desc.:	CONTAINMENT LEVEL
Analog/Digital:	A
Engr Units/Dig States:	FT
Engr Units Conversion:	N/A
Minimum Instr Range:	46.00
Maximum Instr Range:	54.00
Zero Point Reference:	CNTFLR
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	CNTMNT EL 46
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	DRY
Unique System Desc:	N/A

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	NOT LISTED
Point ID:	LT1254
Plant Spec Point Desc.:	CONTAINMENT LEVEL
Generic/Cond Desc.:	CONTAINMENT LEVEL
Analog/Digital:	A
Engr Units/Dig States:	FT
Engr Units Conversion:	N/A
Minimum Instr Range:	46.00
Maximum Instr Range:	54.00
Zero Point Reference:	CNTFLR
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	CNTMNT EL 46
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	DRY
Unique System Desc:	N/A

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CTMNT SMP WR
Point ID:	LT1255
Plant Spec Point Desc.:	CONTAINMENT SUMP LEVEL
Generic/Cond Desc.:	CONTAINMENT SUMP WR LEVEL
Analog/Digital:	A
Engr Units/Dig States:	FT
Engr Units Conversion:	N/A
Minimum Instr Range:	38.25
Maximum Instr Range:	48.25
Zero Point Reference:	TNKBOT
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	BOTTOM OF CNTMNT SUMP
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	DRY
Unique System Desc:	N/A

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CTMNT SMP WR
Point ID:	LT1256
Plant Spec Point Desc.:	CONTAINMENT SUMP LEVEL
Generic/Cond Desc.:	CONTAINMENT SUMP WR LEVEL
Analog/Digital:	A
Engr Units/Dig States:	FT
Engr Units Conversion:	N/A
Minimum Instr Range:	38.25
Maximum Instr Range:	48.25
Zero Point Reference:	TNKBOT
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	BOTTOM OF CNTMNT SUMP
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	DRY
Unique System Desc:	N/A

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	EFF GAS RAD
Point ID:	R27
Plant Spec Point Desc.:	PLANT VENT RADIATION
Generic/Cond Desc.:	RADIOACTIVITY OF RELEASED GASSES
Analog/Digital:	A
Engr Units/Dig States:	UCI/S
Engr Units Conversion:	N/A
Minimum Instr Range:	10.0E+00
Maximum Instr Range:	10.0E+12
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	4
How Processed:	SEE SYS DESC.
Sensor Locations:	80' PURGE VALVE
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS MONITORING SYSTEM USES OUTPUTS FROM A SCINTILLATION/PM TUBE, SOLID STATE SENSORS AND FLOW TRANSMITTERS TO PROVIDE THE RADIATION RELEASE RATE OF THE PLANT VENT.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	EFF LIQ RAD
Point ID:	R18
Plant Spec Point Desc.:	LIQUID WASTE DISPOSAL RADIATION
Generic/Cond Desc.:	RADIOACTIVITY OF RELEASED LIQ
Analog/Digital:	A
Engr Units/Dig States:	UCI/CC
Engr Units Conversion:	N/A
Minimum Instr Range:	1.000E - 07
Maximum Instr Range:	1.000E - 01
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC
Sensor Locations:	34' PAB WASTE CONDENSATE
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS MONITOR USES A CRYSTAL SCINTILLATION/PM TUBE THAT PRODUCES AN OUTPUT PROPORTIONAL TO THE LEVEL OF GAMMA RADIATION IN THE WASTE DISPOSAL SYSTEM LIQUID RELEASES.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	COND A/E RAD
Point ID:	R15
Plant Spec Point Desc.:	STEAM AIR EJECTOR RADIATION
Generic/Cond Desc.:	COND AIR EJECTOR RADIOACTIVITY
Analog/Digital:	A
Engr Units/Dig States:	UCI/CC
Engr Units Conversion:	N/A
Minimum Instr Range:	1.000E-06
Maximum Instr Range:	1.000E-00
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	55' TURB A/E EXH
Alarm/Trip Set Points:	HI/HI AT 0.400
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS MONITOR USES A SCINTILLATION/PM TUBE THAT PRODUCES AN OUTPUT PORPORTIONAL TO THE LEVEL OF GAMMA RADIATION IN THE DISCHARGE OF THE AIR EJECTOR EXHAUST HEADER.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CNTMNT RAD
Point ID:	R25
Plant Spec Point Desc.:	CNTMNT HIGH RAD MONITOR 1
Generic/Cond Desc.:	RADIATION LEVEL IN CNTMNT
Analog/Digital:	A
Engr Units/Dig States:	R/HR
Engr Units Conversion:	N/A
Minimum Instr Range:	1.000E+00
Maximum Instr Range:	1.000E+08
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	95' CNTMNT WEST
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS MONITOR USES A GAMMA IONIZATION CHAMBER THAT PRODUCES AN OUTPUT PROPORTIONAL TO THE RADIATION LEVEL IN THE CONTAINMENT.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CNTMNT RAD
Point ID:	R26
Plant Spec Point Desc.:	CNTMNT HIGH RAD MONITOR 2
Generic/Cond Desc.:	RADIATION LEVEL IN CNTMNT
Analog/Digital:	A
Engr Units/Dig States:	R/HR
Engr Units Conversion:	N/A
Minimum Instr Range:	1.000E+00
Maximum Instr Range:	1.000E+08
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	95' CNTMNT EAST
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS MONITOR USES A GAMMA IONIZATION CHAMBER THAT PRODUCES AN OUTPUT PROPORTIONAL TO THE RADIATION LEVEL IN THE CONTAINMENT.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	NOT LISTED
Point ID:	R04
Plant Spec Point Desc.:	CHARGING PUMP ROOM RAD
Generic/Cond Desc.:	CHARGING PUMP ROOM RAD
Analog/Digital:	A
Engr Units/Dig States:	MR/HR
Engr Units Conversion:	N/A
Minimum Instr Range:	0.100E+00
Maximum Instr Range:	10.000E+03
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	ACCESS TO CHG PUMP ROOMS
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS MONITOR USES A G-M TUBE THAT PRODUCES AN OUTPUT PROPORTIONAL TO THE EQUIVALENT GAMMA RADIATION DOSE RATE AT THE ACCESS TO THE CHARGING PUMP ROOMS.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	MAIN SL 1/A
Point ID:	R62A
Plant Spec Point Desc.:	STEAM LINE 31 RADIATION
Generic/Cond Desc.:	STM GEN 1 STEAM LINE RAD LEVEL
Analog/Digital:	A
Engr Units/Dig States:	UCI/CC
Engr Units Conversion:	N/A
Minimum Instr Range:	1.000E - 04
Maximum Instr Range:	1.000E +01
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	AUX BOILER FD BLDG STEAM BRIDGE
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS MONITOR USES A G-M TUBE THAT PRODUCES AN OUTPUT PROPORTIONAL TO THE EQUIVALENT GAMMA RADIATION DOSE RATE ADJACENT TO STEAM LINE 31.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	MAIN SL 2/B
Point ID:	R62B
Plant Spec Point Desc.:	STEAM LINE 32 RADIATION
Generic/Cond Desc.:	STM GEN 2 STEAM LINE RAD LEVEL
Analog/Digital:	A
Engr Units/Dig States:	UCI/CC
Engr Units Conversion:	N/A
Minimum Instr Range:	1.000E - 04
Maximum Instr Range:	1.000E +01
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	AUX BOILER FD BLDG STEAM BRIDGE
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS MONITOR USES A G-M TUBE THAT PRODUCES AN OUTPUT PROPORTIONAL TO THE EQUIVALENT GAMMA RADIATION DOSE RATE ADJACENT TO STEAM LINE 32.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	MAIN SL 3/C
Point ID:	R62C
Plant Spec Point Desc.:	STEAM LINE 33 RADIATION
Generic/Cond Desc.:	STM GEN 3 STEAM LINE RAD LEVEL
Analog/Digital:	A
Engr Units/Dig States:	UCI/CC
Engr Units Conversion:	N/A
Minimum Instr Range:	1.000E - 04
Maximum Instr Range:	1.000E +01
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	AUX BOILER FD BLDG STEAM BRIDGE
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS MONITOR USES A G-M TUBE THAT PRODUCES AN OUTPUT PROPORTIONAL TO THE EQUIVALENT GAMMA RADIATION DOSE RATE ADJACENT TO STEAM LINE 33.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	MAIN SL 4/D
Point ID:	R62D
Plant Spec Point Desc.:	STEAM LINE 34 RADIATION
Generic/Cond Desc.:	STM GEN 4 STEAM LINE RAD LEVEL
Analog/Digital:	A
Engr Units/Dig States:	UCI/CC
Engr Units Conversion:	N/A
Minimum Instr Range:	1.000E - 04
Maximum Instr Range:	1.000E + 01
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	AUX BOILER FD BLDG STEAM BRIDGE
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS MONITOR USES A G-M TUBE THAT PRODUCES AN OUTPUT PROPORTIONAL TO THE EQUIVALENT GAMMA RADIATION DOSE RATE ADJACENT TO STEAM LINE 34.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	NOT LISTED
Point ID:	R19
Plant Spec Point Desc.:	STM GEN BLOWDOWN RADIATION
Generic/Cond Desc.:	STM GEN BLOWDOWN RADIATION
Analog/Digital:	A
Engr Units/Dig States:	UCI/CC
Engr Units Conversion:	N/A
Minimum Instr Range:	1.000E - 06
Maximum Instr Range:	1.000E + 02
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	PAB PIPE CHASE TO MINI CNTMNT
Alarm/Trip Set Points:	HI/HI AT 14.000
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS MONITOR USES A CRYSTAL SCINTILLATION/PM TUBE THAT PRODUCES AN OUTPUT PROPORTIONAL TO THE LEVEL OF GAMMA RADIATION IN A STEAM GENERATOR BLOWDOWN SAMPLE.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CTMNT PRESS
Point ID:	PT1421
Plant Spec Point Desc.:	CONTAINMENT HIGH PRESS
Generic/Cond Desc.:	CONTAINMENT PRESSURE
Analog/Digital:	A
Engr Units/Dig States:	PSIG
Engr Units Conversion:	N/A
Minimum Instr Range:	-5.0
Maximum Instr Range:	200.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	PAB EL 49
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	N/A

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CTMNT PRESS
Point ID:	PT1422
Plant Spec Point Desc :	CONTAINMENT HIGH PRESS
Generic/Cond Desc.:	CONTAINMENT PRESSURE
Analog/Digital:	A
Engr Units/Dig States:	PSIG
Engr Units Conversion:	N/A
Minimum Instr Range:	-5.0
Maximum Instr Range:	200.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	PAB EL 49
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	N/A

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	CTMNT TEMP
Point ID:	TC1416
Plant Spec Point Desc.:	CONTAINMENT AVERAGE TEMP
Generic/Cond Desc.:	CONTAINMENT TEMPERATURE
Analog/Digital:	A
Engr Units/Dig States:	DEGF
Engr Units Conversion:	N/A
Minimum Instr Range:	40.0
Maximum Instr Range:	400.0
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	P
Number of Sensors:	5
How Processed:	AVERAGE
Sensor Locations:	CTMNT CRANE WALL ABOVE INLET TO FCU
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	THIS POINT IS A SINGLE SIGNAL INPUT TO THE COMPUTER WHICH REPRESENTS THE AVERAGE OF 5 RTD SIGNALS.

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	H_2 CONC
Point ID:	HCMCA
Plant Spec Point Desc.:	CONTAINMENT H_2 CONCENTRATION
Generic/Cond Desc.:	CONTAINMENT HYDROGEN CONC
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	N/A
Minimum Instr Range:	0.00
Maximum Instr Range:	10.00
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	EL 41 PIPE PENET AREA PAB
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	ANALYZER USES A DIFFUSION LIMITED ELECTROCHEMICAL CELL TO MEASURE GASEOUS HYDROGEN IN SAMPLE FROM CNTNMNT RECIRC FAN UNITS PLENUM CHAMBERS.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	H_2 CONC
Point ID:	HCMCB
Plant Spec Point Desc.:	CONTAINMENT H_2 CONCENTRATION
Generic/Cond Desc.:	CONTAINMENT HYDROGEN CONC
Analog/Digital:	A
Engr Units/Dig States:	PCT
Engr Units Conversion:	N/A
Minimum Instr Range:	0.00
Maximum Instr Range:	10.00
Zero Point Reference:	N/A
Reference Point Notes:	N/A
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	SEE SYS DESC.
Sensor Locations:	EL 41 PIPE PENET AREA PAB
Alarm/Trip Set Points:	NONE
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	ANALYZER USES A DIFFUSION LIMITED ELECTROCHEMICAL CELL TO MEASURE GASEOUS HYDROGEN.

INDIAN POINT UNIT #3

DATA POINT LIBRARY REFERENCE FILE

Date:	11/12/92
Reactor Unit:	IP3
Data Feeder:	N/A
NRC ERDS Parameter:	BWST LEVEL
Point ID:	LT920
Plant Spec Point Desc.:	RWST LEVEL
Generic/Cond Desc.:	BORATED WATER STORAGE TANK LEVEL
Analog/Digital:	A
Engr Units/Dig States:	FT
Engr Units Conversion:	N/A
Minimum Instr Range:	0.0
Maximum Instr Range:	40.0
Zero Point Reference:	TNKBOT
Reference Point Notes:	13902 GAL REMAIN AT ZERO POINT
PROC or SENS:	S
Number of Sensors:	N/A
How Processed:	N/A
Sensor Locations:	RWST
Alarm/Trip Set Points:	LO AT 13.0
NI Detector Power Supply Cut-off Power Level:	N/A
NI Detector Power Supply Turn-on Power Level:	N/A
Instrument Failure Mode:	N/A
Temperature Compensation For DP Transmitters:	
Level Reference Leg:	N/A
Unique System Desc:	INSTRUMENT IS A DIRECT READING PRESSURE XMTR.