

REGULATOR INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9611140314 DOC.DATE: 96/11/06 NOTARIZED: NO DOCKET #
 FACIL:50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
 AUTH.NAME AUTHOR AFFILIATION
 HOVEY,R.J. Florida Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Informs of completion of plant modifications to support thermal power uprate.Revisions to ERDS Data Point Library, encl.

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 TITLE: Emergency Response Data System (ERDS)

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10 CFR §50 Appendix E

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Re: Turkey Point Unit 4
Docket No. 50-251
Emergency Response Data System (ERDS)

On September 26, 1996, the NRC issued Technical Specification Amendment 185 which approved increasing core thermal power from 2200 MWt to 2300 MWt on Unit 4. Several plant modifications have been completed to support the thermal power uprate. In conjunction with these modifications Florida Power and Light Company has revised the descriptions in the ERDS Data Point Library. Attached are the revisions to the ERDS Data Point Library for Unit 4.

Should there be any questions, please contact us.

Very truly yours,

A handwritten signature in dark ink, appearing to read "R. J. Hovey", is written over the typed name.

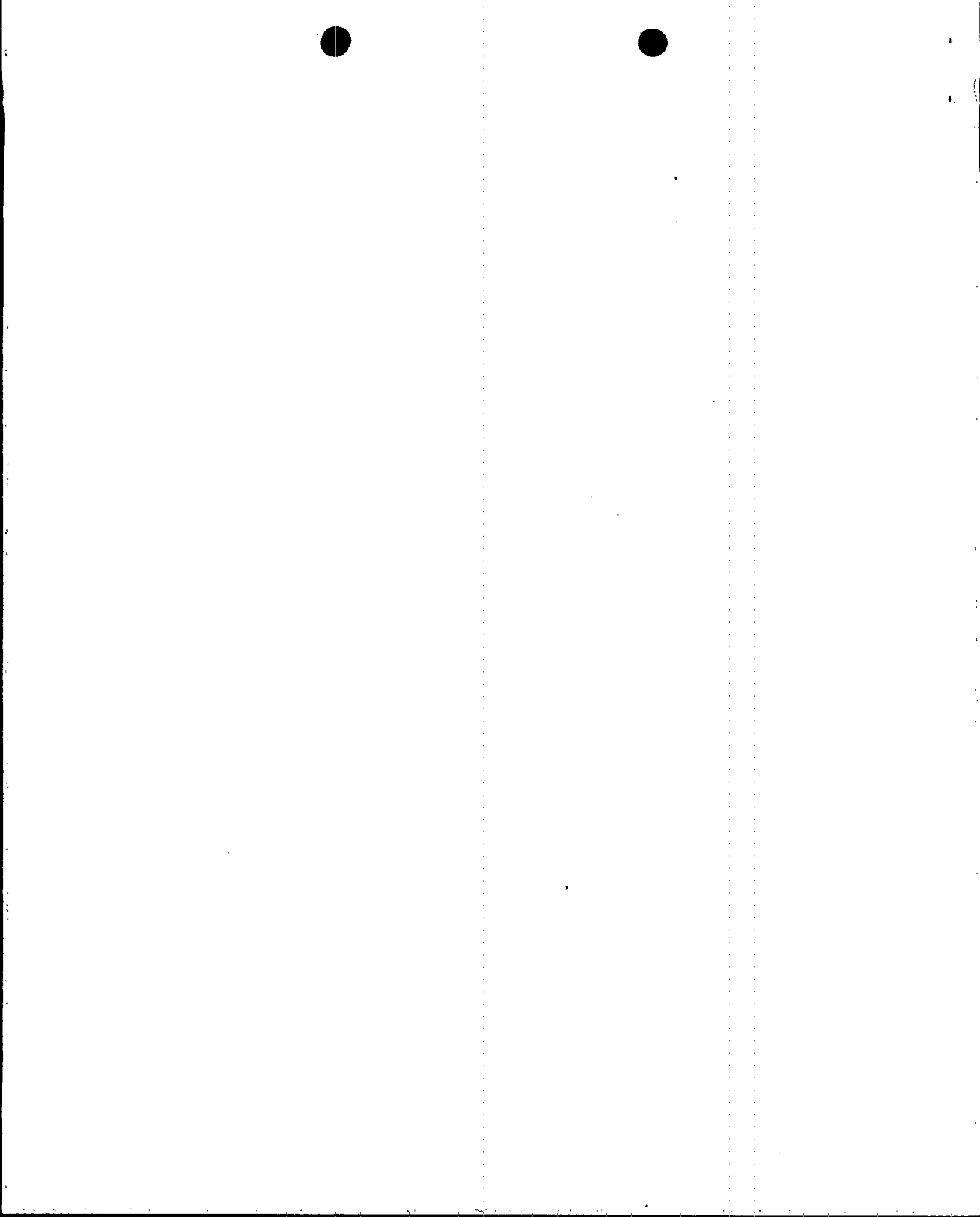
R. J. Hovey
Vice President
Turkey Point Plant

JAH

Attachment

cc: S. D. Ebner, Regional Administrator, Region II, USNRC
T. P. Johnson, Senior Resident Inspector, USNRC,
Turkey Point Plant

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PDR ADDCK 05000251
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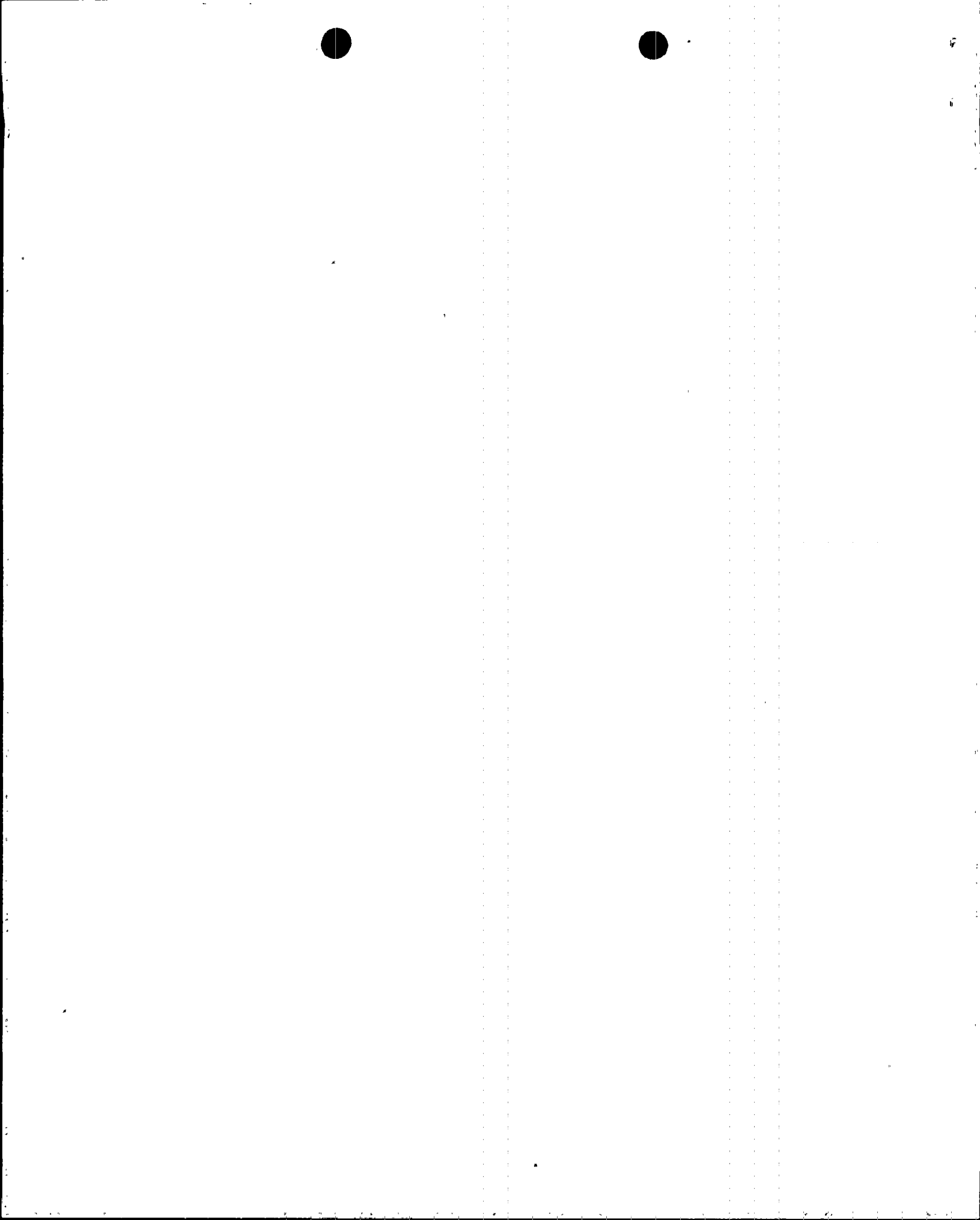
ATTACHMENT

REVISIONS TO THE TURKEY POINT UNIT 4 ERDS DATA POINT LIBRARY

RECORD NUMBER (Basis of Change)	FIELD NAME	ORIGINAL TEXT	AS CHANGED TEXT
13	ALARM OR TRIP SETPOINTS	LO TRIP = 15%	LO TRIP = 10%
15	ALARM OR TRIP SETPOINTS	LO TRIP = 15%	LO TRIP = 10%
17	ALARM OR TRIP SETPOINTS	LO TRIP = 15%	LO TRIP = 10%
22	UNIQUE SYSTEM DESCRIPTION	EACH STEAM GENERATOR IS SERVED BY TWO CHANNELS OF FEEDWATER FLOW INSTRUMENTATION. THESE PROTECTION CHANNELS PROVIDE A STEAM/FW FLOW MISMATCH (1/2) COINCIDENT WITH LOW S/G LEVEL (1/2) REACTOR TRIP AT FEED FLOW 0.64E+6 LBS/HR BELOW STEAM FLOW AND NR SG LEVEL <=15%. IN ADDITION, A FW<STM FLOW ALARM AND STM>FW FLOW ALARM ARE PROVIDED, EACH AT A DELTA FLOW OF 0.5E+6 LBS/HR.	EACH STEAM GENERATOR IS SERVED BY TWO CHANNELS OF FEEDWATER FLOW INSTRUMENTATION. THESE PROTECTION CHANNELS PROVIDE A STEAM/FW FLOW MISMATCH (1/2) COINCIDENT WITH LOW S/G LEVEL (1/2) REACTOR TRIP AT FEED FLOW 0.665E+6 LBS/HR BELOW STEAM FLOW AND NR SG LEVEL <=10%. IN ADDITION, A FW<STM FLOW ALARM AND STM>FW FLOW ALARM ARE PROVIDED, EACH AT A DELTA FLOW OF 0.5E+6 LBS/HR.



RECORD NUMBER (Basis of Change)	FIELD NAME	ORIGINAL TEXT	AS CHANGED TEXT
23	UNIQUE SYSTEM DESCRIPTION	EACH STEAM GENERATOR IS SERVED BY TWO CHANNELS OF FEEDWATER FLOW INSTRUMENTATION. THESE PROTECTION CHANNELS PROVIDE A STEAM/FW FLOW MISMATCH (1/2) COINCIDENT WITH LOW S/G LEVEL (1/2) REACTOR TRIP AT FEED FLOW $0.64\text{E}+6$ LBS/HR BELOW STEAM FLOW AND NR SG LEVEL $\leq 15\%$. IN ADDITION, A FW<STM FLOW ALARM AND STM>FW FLOW ALARM ARE PROVIDED, EACH AT A DELTA FLOW OF $0.5\text{E}+6$ LBS/HR.	EACH STEAM GENERATOR IS SERVED BY TWO CHANNELS OF FEEDWATER FLOW INSTRUMENTATION. THESE PROTECTION CHANNELS PROVIDE A STEAM/FW FLOW MISMATCH (1/2) COINCIDENT WITH LOW S/G LEVEL (1/2) REACTOR TRIP AT FEED FLOW $0.665\text{E}+6$ LBS/HR BELOW STEAM FLOW AND NR SG LEVEL $\leq 10\%$. IN ADDITION, A FW<STM FLOW ALARM AND STM>FW FLOW ALARM ARE PROVIDED, EACH AT A DELTA FLOW OF $0.5\text{E}+6$ LBS/HR.
24	UNIQUE SYSTEM DESCRIPTION	EACH STEAM GENERATOR IS SERVED BY TWO CHANNELS OF FEEDWATER FLOW INSTRUMENTATION. THESE PROTECTION CHANNELS PROVIDE A STEAM/FW FLOW MISMATCH (1/2) COINCIDENT WITH LOW S/G LEVEL (1/2) REACTOR TRIP AT FEED FLOW $6.4\text{E}+5$ LBS/HR BELOW STEAM FLOW AND NR SG LEVEL $\leq 15\%$. IN ADDITION, A FW<STM FLOW ALARM AND STM>FW FLOW ALARM ARE PROVIDED, EACH AT A DELTA FLOW OF $5.0\text{E}+5$ LBS/HR.	EACH STEAM GENERATOR IS SERVED BY TWO CHANNELS OF FEEDWATER FLOW INSTRUMENTATION. THESE PROTECTION CHANNELS PROVIDE A STEAM/FW FLOW MISMATCH (1/2) COINCIDENT WITH LOW S/G LEVEL (1/2) REACTOR TRIP AT FEED FLOW $0.665\text{E}+6$ LBS/HR BELOW STEAM FLOW AND NR SG LEVEL $\leq 10\%$. IN ADDITION, A FW<STM FLOW ALARM AND STM>FW FLOW ALARM ARE PROVIDED, EACH AT A DELTA FLOW OF $0.5\text{E}+6$ LBS/HR.



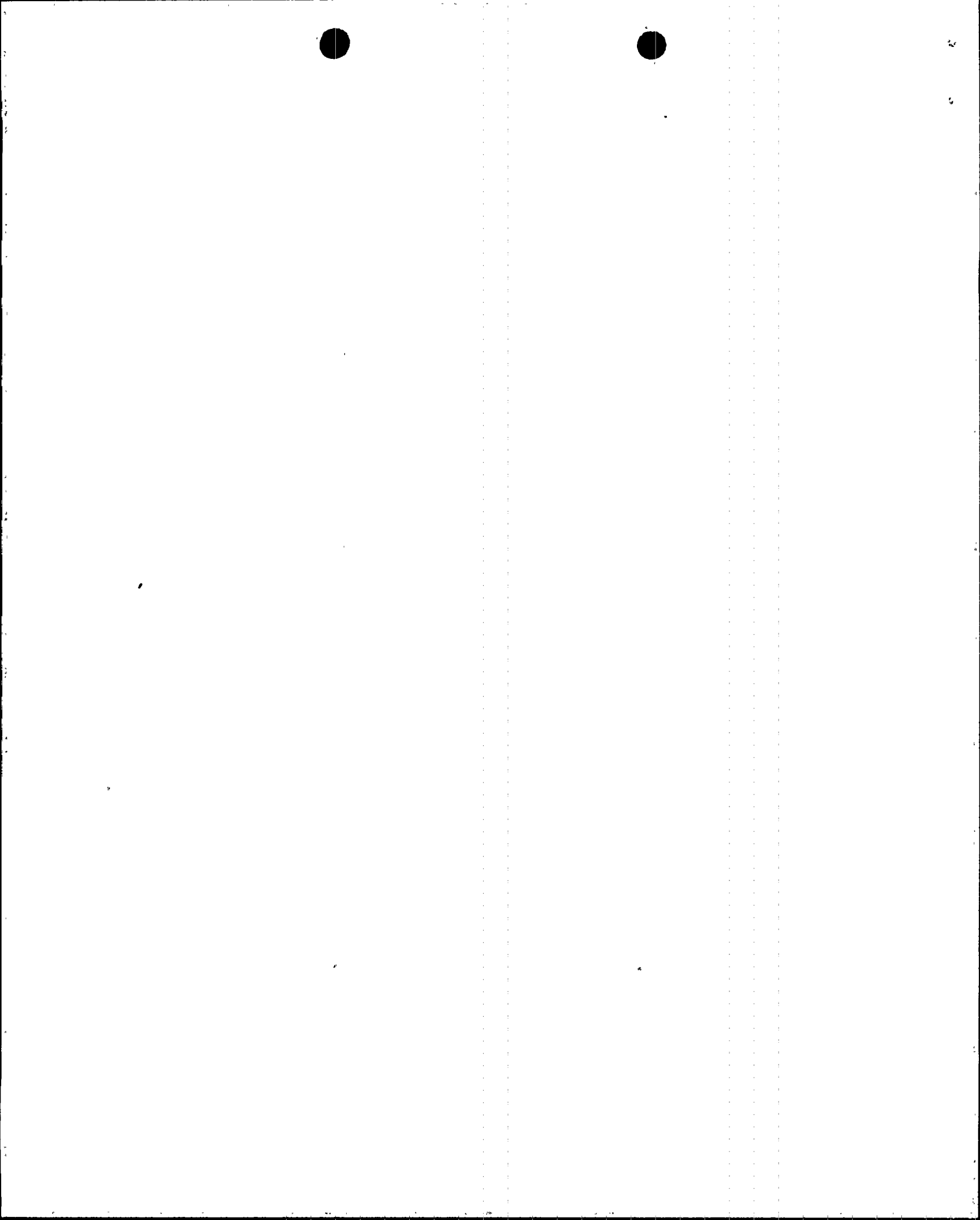
RECORD NUMBER (Basis of Change)	FIELD NAME	ORIGINAL TEXT	AS CHANGED TEXT
25	UNIQUE SYSTEM DESCRIPTION	THE AFW FLOW IS THE SUM OF TRAINS ONE AND TWO TO EACH S/G. THE AUX FEED IS SUPPLIED BY THREE STEAM DRIVEN PUMPS WHICH DISCHARGE TO TWO REDUNDANT TRAINS. EACH TRAIN SUPPLIES FLOW TO BOTH UNITS AND MAY FEED ANY OF THE S/Gs. ADMINISTRATIVELY, PUMP A IS ALIGNED TO TRAIN ONE, PUMP B AND C TO TRAIN TWO. THE CONDENSATE STORAGE TANKS (2.5E5 GALS EA) ARE THE NORMAL SUPPLY TO THE AUX FEED SYSTEM.	THE AFW FLOW IS THE SUM OF TRAINS ONE AND TWO TO EACH S/G. THE AUX FEED IS SUPPLIED BY THREE STEAM DRIVEN PUMPS WHICH DISCHARGE TO TWO REDUNDANT TRAINS. EACH TRAIN SUPPLIES FLOW TO BOTH UNITS AND MAY FEED ANY OF THE S/Gs. ADMINISTRATIVELY, PUMP A IS ALIGNED TO TRAIN ONE, PUMP B AND C TO TRAIN TWO. THE CONDENSATE STORAGE TANKS (TS MINIMUM OF 210,000 GALS EA) ARE THE NORMAL SUPPLY TO THE AUX FEED SYSTEM.
26	UNIQUE SYSTEM DESCRIPTION	THE AFW FLOW IS THE SUM OF TRAINS ONE AND TWO TO EACH S/G. THE AUX FEED IS SUPPLIED BY THREE STEAM DRIVEN PUMPS WHICH DISCHARGE TO TWO REDUNDANT TRAINS. EACH TRAIN SUPPLIES FLOW TO BOTH UNITS AND MAY FEED ANY OF THE S/Gs. ADMINISTRATIVELY, PUMP A IS ALIGNED TO TRAIN ONE, PUMP B AND C TO TRAIN TWO. THE CONDENSATE STORAGE TANKS (2.5E5 GALS EA) ARE THE NORMAL SUPPLY TO THE AUX FEED SYSTEM.	THE AFW FLOW IS THE SUM OF TRAINS ONE AND TWO TO EACH S/G. THE AUX FEED IS SUPPLIED BY THREE STEAM DRIVEN PUMPS WHICH DISCHARGE TO TWO REDUNDANT TRAINS. EACH TRAIN SUPPLIES FLOW TO BOTH UNITS AND MAY FEED ANY OF THE S/Gs. ADMINISTRATIVELY, PUMP A IS ALIGNED TO TRAIN ONE, PUMP B AND C TO TRAIN TWO. THE CONDENSATE STORAGE TANKS (TS MINIMUM OF 210,000 GALS EA) ARE THE NORMAL SUPPLY TO THE AUX FEED SYSTEM.



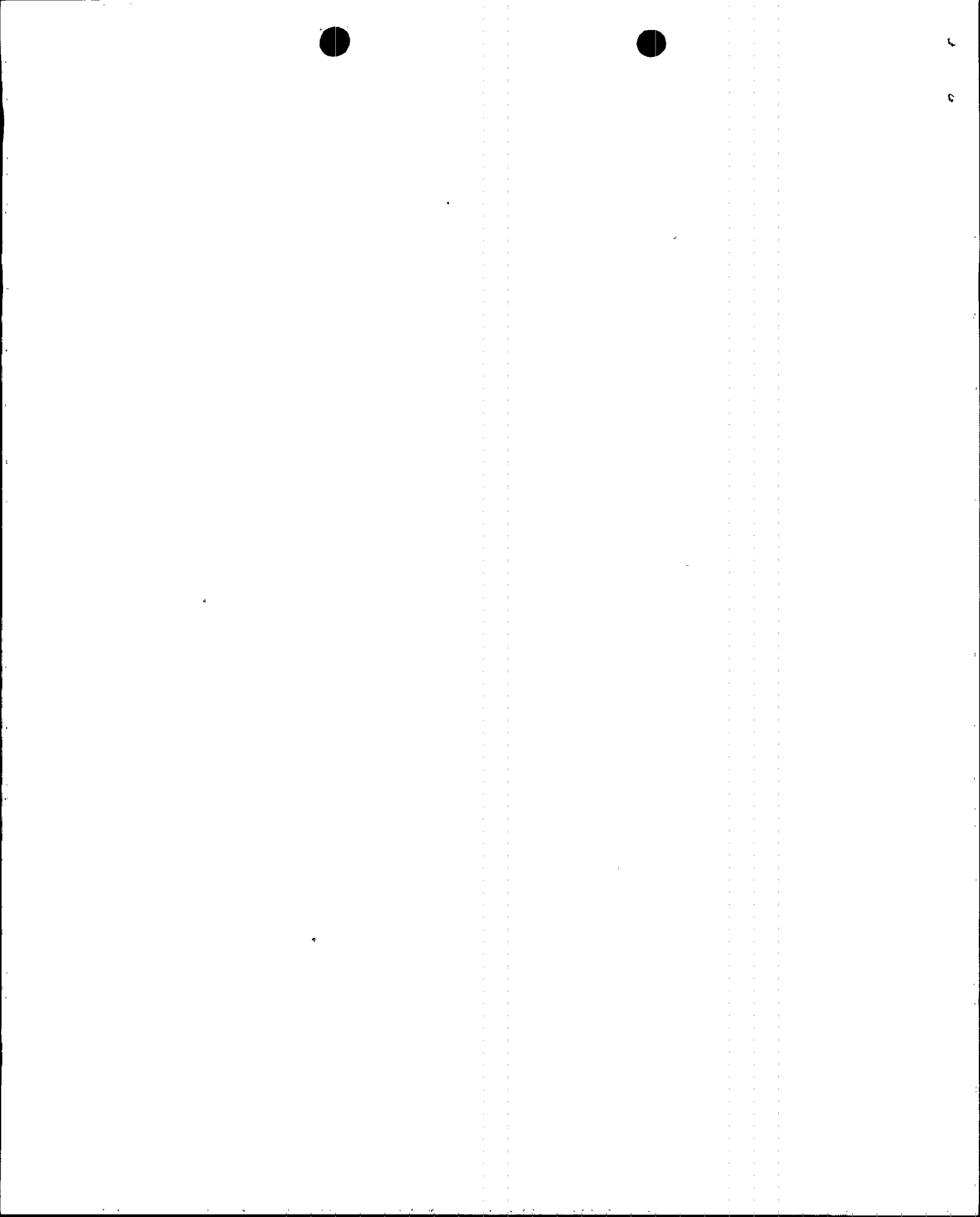
RECORD NUMBER (Basis of Change)	FIELD NAME	ORIGINAL TEXT	AS CHANGED TEXT
27	UNIQUE SYSTEM DESCRIPTION	THE AFW FLOW IS THE SUM OF TRAINS ONE AND TWO TO EACH S/G. THE AUX FEED IS SUPPLIED BY THREE STEAM DRIVEN PUMPS WHICH DISCHARGE TO TWO REDUNDANT TRAINS. EACH TRAIN SUPPLIES FLOW TO BOTH UNITS AND MAY FEED ANY OF THE S/Gs. ADMINISTRATIVELY, PUMP A IS ALIGNED TO TRAIN ONE, PUMP B AND C TO TRAIN TWO. THE CONDENSATE STORAGE TANKS (2.5E5 GALS EA) ARE THE NORMAL SUPPLY TO THE AUX FEED SYSTEM.	THE AFW FLOW IS THE SUM OF TRAINS ONE AND TWO TO EACH S/G. THE AUX FEED IS SUPPLIED BY THREE STEAM DRIVEN PUMPS WHICH DISCHARGE TO TWO REDUNDANT TRAINS. EACH TRAIN SUPPLIES FLOW TO BOTH UNITS AND MAY FEED ANY OF THE S/Gs. ADMINISTRATIVELY, PUMP A IS ALIGNED TO TRAIN ONE, PUMP B AND C TO TRAIN TWO. THE CONDENSATE STORAGE TANKS (TS MINIMUM OF 210,000 GALS EA) ARE THE NORMAL SUPPLY TO THE AUX FEED SYSTEM.
37	UNIQUE SYSTEM DESCRIPTION	FT932 MEASURES HHSI FLOW TO LOOP A HOT LEG. HHSI IS PROVIDED BY TWO ELECTRICALLY DRIVEN PUMPS, THE WATER SUPPLY IS THE RESPECTIVE UNIT'S RWST (3.22E5 GALS) THE DISCHARGE OF EACH PUMP IS DIRECTED TO ITS OWN HEADER. PUMP B SUPPLIES LOOPS A AND B HOT LEGS. NOTE: THE UNIT 3 AND 4 RWST TANKS MAY BE CROSS CONNECTED, ADDITIONALLY THE UNIT'S DISCHARGE HEADERS MAY ALSO BE CROSS CONNECTED.	FT932 MEASURES HHSI FLOW TO LOOP A HOT LEG. HHSI IS PROVIDED BY TWO ELECTRICALLY DRIVEN PUMPS, THE WATER SUPPLY IS THE RESPECTIVE UNIT'S RWST (320,000 GALS) THE DISCHARGE OF EACH PUMP IS DIRECTED TO ITS OWN HEADER. PUMP B SUPPLIES LOOPS A AND B HOT LEGS. NOTE: THE UNIT 3 AND 4 RWST TANKS MAY BE CROSS CONNECTED, ADDITIONALLY THE UNIT'S DISCHARGE HEADERS MAY ALSO BE CROSS CONNECTED.



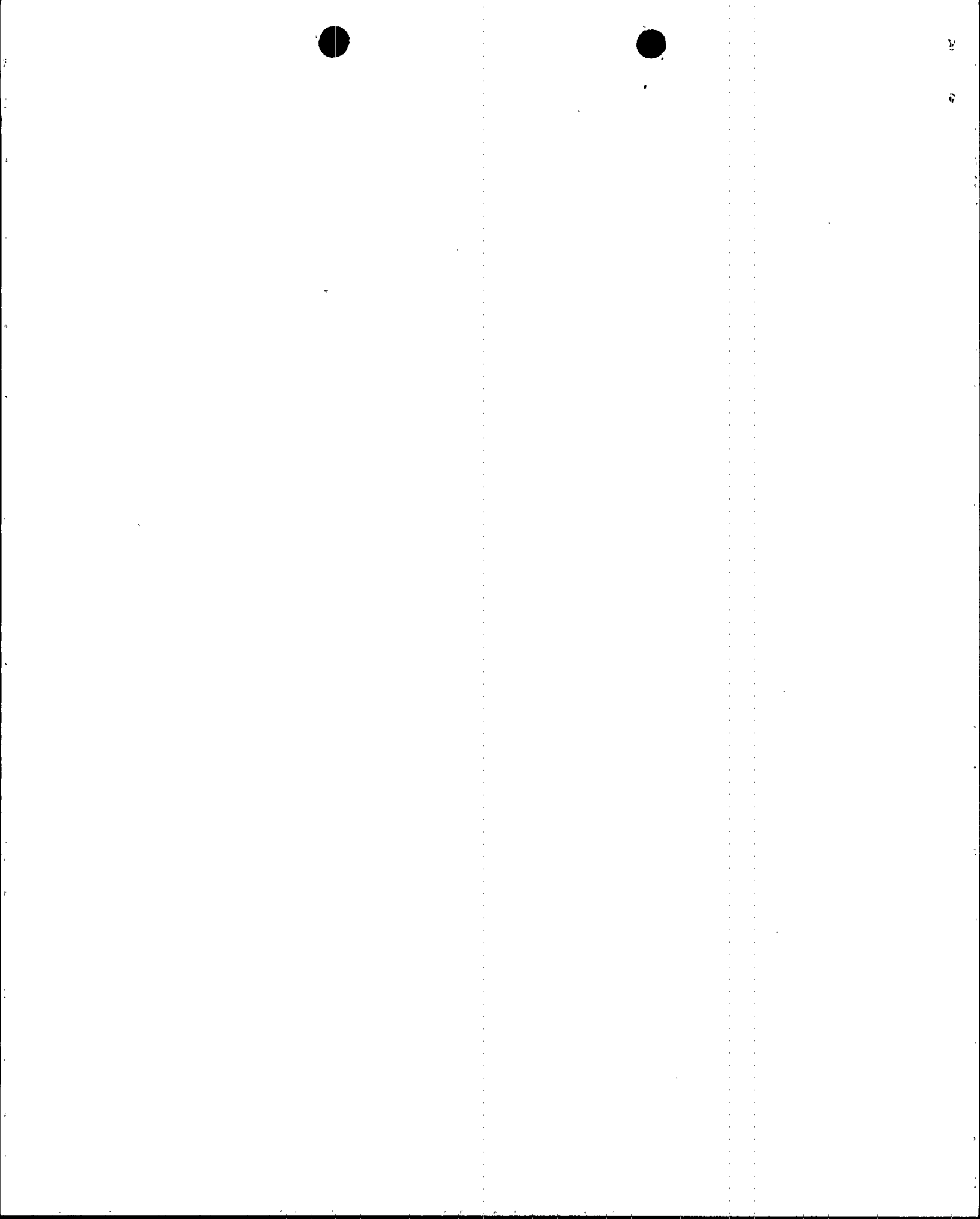
RECORD NUMBER (Basis of Change)	FIELD NAME	ORIGINAL TEXT	AS CHANGED TEXT
38	UNIQUE SYSTEM DESCRIPTION	FT933 MEASURES HHSI FLOW TO LOOP B HOT LEG. HHSI IS PROVIDED BY TWO ELECTRICALLY DRIVEN PUMPS, THE WATER SUPPLY IS THE RESPECTIVE UNIT'S RWST (3.22E5 GALS) THE DISCHARGE OF EACH PUMP IS DIRECTED TO ITS OWN HEADER. PUMP B SUPPLIES LOOPS A AND B HOT LEGS. NOTE: THE UNIT 3 AND 4 RWST TANKS MAY BE CROSS CONNECTED, ADDITIONALLY THE UNIT'S DISCHARGE HEADERS MAY ALSO BE CROSS CONNECTED.	FT933 MEASURES HHSI FLOW TO LOOP B HOT LEG. HHSI IS PROVIDED BY TWO ELECTRICALLY DRIVEN PUMPS, THE WATER SUPPLY IS THE RESPECTIVE UNIT'S RWST (320,000 GALS) THE DISCHARGE OF EACH PUMP IS DIRECTED TO ITS OWN HEADER. PUMP B SUPPLIES LOOPS A AND B HOT LEGS. NOTE: THE UNIT 3 AND 4 RWST TANKS MAY BE CROSS CONNECTED, ADDITIONALLY THE UNIT'S DISCHARGE HEADERS MAY ALSO BE CROSS CONNECTED.
39	PLANT SPECIFIC POINT DESCRIPTION	HHSI FLOW TO BIT TO COLD LEG	HHSI FLOW TO COLD LEGS
39	UNIQUE SYSTEM DESCRIPTION	FT943 MEASURES HHSI FLOW TO LOOPS A, B AND C COLD LEGS. HHSI IS PROVIDED BY TWO ELECTRICALLY DRIVEN PUMPS, THE WATER SUPPLY IS THE RESPECTIVE UNIT'S RWST (3.22E5 GALS) THE DISCHARGE OF EACH PUMP IS DIRECTED TO IT'S OWN HEADER. PUMP A SUPPLIES LOOPS A, B AND C COLD LEGS. NOTE: THE UNIT 3 AND 4 RWST TANKS MAY BE CROSS CONNECTED, ADDITIONALLY THE UNIT'S DISCHARGE HEADERS MAY ALSO BE CROSS CONNECTED.	FT943 MEASURES HHSI FLOW TO LOOPS A, B AND C COLD LEGS. HHSI IS PROVIDED BY TWO ELECTRICALLY DRIVEN PUMPS, THE WATER SUPPLY IS THE RESPECTIVE UNIT'S RWST (320,000 GALS) THE DISCHARGE OF EACH PUMP IS DIRECTED TO IT'S OWN HEADER. PUMP A SUPPLIES LOOPS A, B AND C COLD LEGS. NOTE: THE UNIT 3 AND 4 RWST TANKS MAY BE CROSS CONNECTED, ADDITIONALLY THE UNIT'S DISCHARGE HEADERS MAY ALSO BE CROSS CONNECTED.



RECORD NUMBER (Basis of Change)	FIELD NAME	ORIGINAL TEXT	AS CHANGED TEXT
41	UNIQUE SYSTEM DESCRIPTION	CONTAINMENT SUMP LEVEL IS THE HIGHEST OF THE TWO SUMP LEVEL CHANNELS. EACH CHANNEL CONSISTS OF A FIVE SEGMENT, FLOAT AND REED SWITCH LEVEL COLUMN. THE LEVEL COLUMN STARTS AT THE -18 FT. 8 INCH ELEVATION (18 FT 8 INCHES BELOW SEA LEVEL) AND COVERS 30 FT. 9 INCHES OF LEVEL. THE CONVERSION FROM INCHES TO GALLONS IS NON-LINEAR. NOTE: THE ELEVATION BETWEEN 12 FT. AND 14 FT. 3 INCHES IS NOT COVERED BY THE CONTAINMENT SUMP OR CONTAINMENT LEVEL TRANSMITTERS.	CONTAINMENT SUMP LEVEL IS THE HIGHEST OF THE TWO SUMP LEVEL CHANNELS. EACH CHANNEL CONSISTS OF A FIVE SEGMENT, FLOAT AND REED SWITCH LEVEL COLUMN. THE LEVEL COLUMN STARTS AT THE -18 FT. 8 INCH ELEVATION (18 FT 8 INCHES BELOW SEA LEVEL) AND COVERS 30 FT. 9 INCHES OF LEVEL. THE CONVERSION FROM INCHES TO GALLONS IS NON-LINEAR. NOTE: THE ELEVATION BETWEEN 12 FT. AND 14 FT. 3 INCHES (CONTAINMENT FLOOR) IS NOT COVERED BY THE CONTAINMENT SUMP OR CONTAINMENT LEVEL TRANSMITTERS.
42	UNIQUE SYSTEM DESCRIPTION	CONTAINMENT LEVEL IS THE HIGHEST OF THE TWO CONTAINMENT LEVEL CHANNELS. EACH CHANNEL CONSISTS OF A FLOAT AND REED SWITCH LEVEL COLUMN. THE LEVEL COLUMN STARTS AT THE 14 FT. 3 INCH ELEVATION AND COVERS 7 FT. 6 INCHES OF LEVEL. THE CONVERSION FROM INCHES TO GALLONS IS NON-LINEAR. NOTE: THE ELEVATION BETWEEN 12 FT. AND 14 FT. 3 INCHES IS NOT COVERED BY THE CONTAINMENT SUMP OR CONTAINMENT LEVEL TRANSMITTERS.	CONTAINMENT LEVEL IS THE HIGHEST OF THE TWO CONTAINMENT LEVEL CHANNELS. EACH CHANNEL CONSISTS OF A FLOAT AND REED SWITCH LEVEL COLUMN. THE LEVEL COLUMN STARTS AT THE 14 FT. 3 INCH ELEVATION AND COVERS 7 FT. 6 INCHES OF LEVEL. THE CONVERSION FROM INCHES TO GALLONS IS NON-LINEAR. NOTE: THE ELEVATION BETWEEN 12 FT. AND 14 FT. 3 INCHES (CONTAINMENT FLOOR) IS NOT COVERED BY THE CONTAINMENT SUMP OR CONTAINMENT LEVEL TRANSMITTERS.



RECORD NUMBER (Basis of Change)	FIELD NAME	ORIGINAL TEXT	AS CHANGED TEXT
49	UNIQUE SYSTEM DESCRIPTION	CTMHRADW IS THE HIGHEST OF THE TWO INPUT CHANNELS RAD6311A AND RAD6311B. BOTH CHANNELS USE ION-CHAMBER DETECTORS. RAD6311A IS LOCATED INSIDE CONTAINMENT ON THE 25 FT ELEVATION NEAR THE PERSONNEL HATCH. RAD6311B IS LOCATED AT ABOUT THE 64 FT ELEVATION ON THE S/G SHIELD WALL NEAR THE PRESSURIZER ARMS CHANNEL R-2. THESE CHANNELS HAVE TWO HIGH ALARM SETPPOINTS, ON A HIGH ALARM AN ANNUNCIATOR WILL BE ACTUATED.	CTMHRADW IS THE HIGHEST OF THE TWO INPUT CHANNELS RAD6311A AND RAD6311B. BOTH CHANNELS USE ION-CHAMBER DETECTORS. RAD6311A IS LOCATED INSIDE CONTAINMENT ON THE 25 FT ELEVATION NEAR THE PERSONNEL HATCH. RAD6311B IS LOCATED AT ABOUT THE 64 FT ELEVATION ON THE S/G SHIELD WALL NEAR THE PRESSURIZER ARMS CHANNEL R-2. EACH CHANNEL HAS A HIGH ALARM SETPOINT, ON A HIGH ALARM AN ANNUNCIATOR WILL BE ACTUATED.
53	UNIQUE SYSTEM DESCRIPTION	CONTAINMENT WIDE RANGE PRESSURE IS MONITORED BY TWO ITT BARTON PRESSURE TRANSMITTERS. NOTE: TWO PRESSURE SWITCHES PROVIDE CONTAINMENT HIGH AND HI-HI PRESSURE ACTUATION OF THE EFSAS CIRCUITRY AT 4 PSIG AND 20 PSIG RESPECTIVELY. HIGH CONTAINMENT PRESSURE ACTUATES SAFETY INJECTION, WHILE HI-HI PRESSURE COINCIDENT WITH HIGH PRESSURE WILL ACTUATE CONTAINMENT SPRAYS.	CONTAINMENT WIDE RANGE PRESSURE IS MONITORED BY TWO PRESSURE TRANSMITTERS. NOTE: TWO PRESSURE SWITCHES PROVIDE CONTAINMENT HIGH AND HI-HI PRESSURE ACTUATION OF THE ESFAS CIRCUITRY AT 4 PSIG AND 20 PSIG RESPECTIVELY. HIGH CONTAINMENT PRESSURE ACTUATES SAFETY INJECTION, WHILE HI-HI PRESSURE COINCIDENT WITH HIGH PRESSURE WILL ACTUATE CONTAINMENT SPRAYS.



RECORD NUMBER (Basis of Change)	FIELD NAME	ORIGINAL TEXT	AS CHANGED TEXT
56	UNIQUE SYSTEM DESCRIPTION	EACH RWST LEVEL LOOP CONSISTS OF A ROSEMOUNT DP TRANSMITTER AND FOXBORO MODULES TO PROVIDE ALARM AND INDICATOR FUNCTIONS. ALARMS PROVIDED ARE: LO-LO LEVEL AT 60,000 GALLONS, LOW LEVEL AT 155,000 GALLONS, TECH SPEC LEVEL AT 322,000 GALLONS AND HIGH LEVEL AT 333,000 GALLONS. NOTE: THE RWST IS THE BORATED WATER STORAGE TANK.	EACH RWST LEVEL LOOP CONSISTS OF A DP TRANSMITTER TO PROVIDE ALARM AND INDICATOR FUNCTIONS. ALARMS PROVIDED ARE: LO-LO LEVEL AT 60,000 GALLONS, LOW LEVEL AT 155,000 GALLONS, TECH SPEC LEVEL AT 320,000 GALLONS AND HIGH LEVEL AT 333,000 GALLONS. NOTE: THE RWST IS THE BORATED WATER STORAGE TANK.



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