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Fast Flux Test Facility Performance Monitoring Management Information March 1988

Prepared for the U.S. Department of Energy
Assistant Secretary for Nuclear Energy



**Westinghouse
Hanford Company**

Richland, Washington

Hanford Operations and Engineering Contractor for the
U.S. Department of Energy under Contract DE-AC06-87RL10930

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A. D. Randal 9/21/2016

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D. J. Newland

Date Published
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FOREWORD

The purpose of this report is to provide management with performance data on key performance indicators selected from the FFTF Early Warning System performance indicators. This report contains the results for key performance indicators divided into two categories of "overall" and "other". The "overall" performance indicators, when considered in the aggregate, provide one means of monitoring overall plant performance. Overall performance indicators are listed in Table 1. The "other" performance indicators, listed in Table 2, are considered useful management tools for assessing the specific areas they address.

The data should be used in conjunction with the results of other management assessment activities to focus improvement efforts. Use of these key performance indicators as a group is stressed, since focusing on a single indicator or a narrow set of indicators can be counterproductive both to safety and to long-term performance improvement.

Any concerns regarding the accuracy or analysis of the specific indicator should be addressed to the responsible manager identified on the figure. This report must be reviewed with the understanding that both the design and the mission are different for FFTF compared to commercial power reactors.

FFTF PLANT MANAGER'S ASSESSMENT

MARCH 1988

The plant was shut down over the first weekend in March to remove the PO-1 test assembly which had reached its end of life. Following restart on March 7, the plant operated at full power throughout the month. More than 115 effective full power days (EFPD) have been completed toward a planned 140 EFPD cycle.

Overall performance indicators in March were dominated by a 100% operational efficiency factor and a high capacity factor with no forced power reductions. Progress was made in the corrective maintenance workoff rate, and the total corrective maintenance backlog is now under 500 items.

A significant goal was achieved by reducing to 1% the fraction of deferred protective maintenance items. Achievement of the 1% level places FFTF among the best commercial nuclear plants in this performance measurement category. Other internal goals achieved in March include reducing the number of temporary modifications in the plant to nine - an all time low.

Please route your copy of this report to your staff and direct any questions or comments to W.M. Ritter (376-0758).

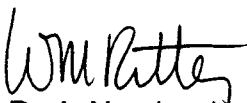

for D. J. Newland
FFTF Plant Manager

TABLE 1

OVERALL PERFORMANCE INDICATORS

<u>FIGURE</u>	<u>PERFORMANCE INDICATOR</u>	<u>AREA</u>
1	Operational Efficiency Factor	OPS
2	Unplanned Scrams	OPS
3	Forced Outages	OPS
4	Unusual Occurrence Reports	OPS
5	Personnel Radiation Exposure	RADCON
6	Industrial Safety Statistics	INDSAF
7	Corrective Maintenance Workoff Rate	MAINT

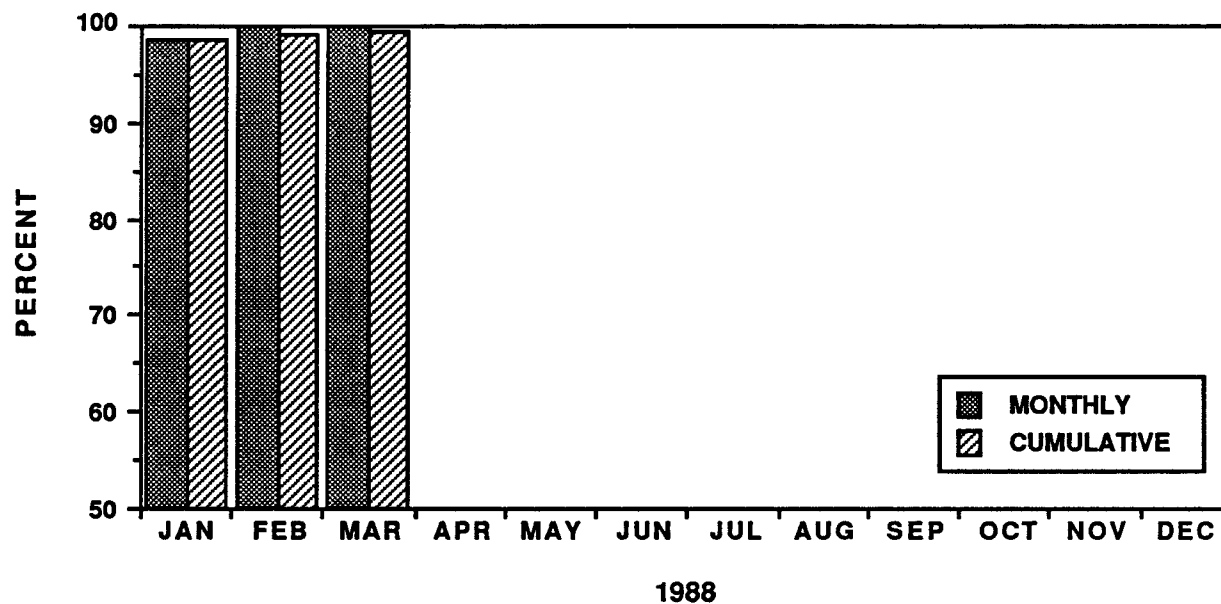
TABLE 2

OTHER PERFORMANCE INDICATORS

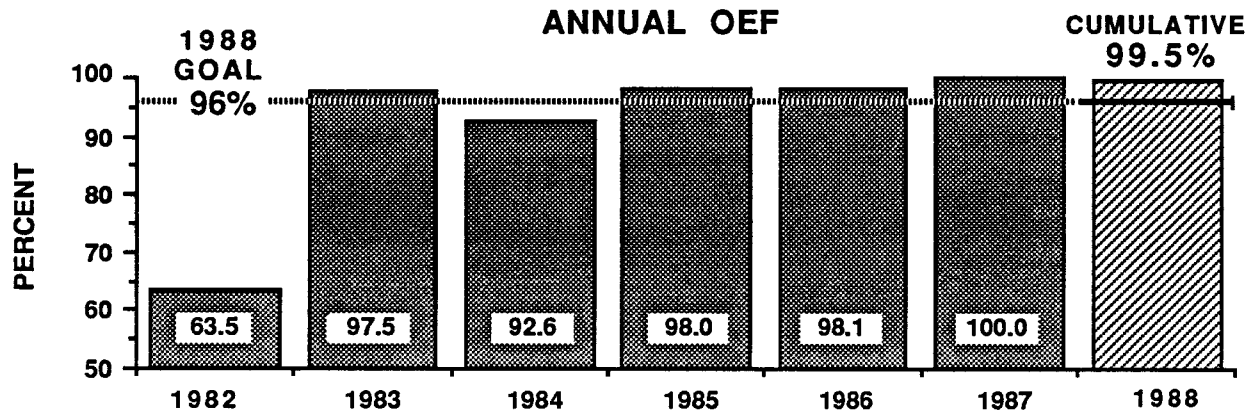
<u>FIGURE</u>	<u>PERFORMANCE INDICATOR</u>	<u>AREA</u>
8	Capacity Factor	OPS
9	Availability Factor	OPS
10	Forced Power Reductions	OPS
11	Reportable Events	OPS
12	(TBD)	
13	Corrective Maintenance Backlog	MAINT
14	Protective Maintenance Performance	MAINT
15	Modification Status	ENG
16	Temporary Modification Status	ENG
17	Essential Drawing Status	ENG
18	Repair Parts Availability	MAINT
19	Staffing Status	PERS
20	(TBD)	
21	Solid Radioactive Waste	RADCON
22	Liquid Radioactive Waste	RADCON
23	Skin Contaminations	RADCON
24	Safety/Quality Commitments	QA
25	Outage Planning Performance	MAINT
26	FFTF Operating Histogram	OPS

OPERATIONAL EFFICIENCY FACTOR

MONTHLY OEF



ANNUAL OEF



PURPOSE

TO MONITOR THE PLANT'S ABILITY TO MEET THE OPERATIONAL SCHEDULE.

$$OEF = \frac{\text{ACTUAL OPERATING DAYS} + \text{PLANNED OUTAGE DAYS} + \text{TEST OUTAGE DAYS}}{\text{CALENDAR DAYS}}$$

ASSESSMENT

THERE WERE TWO TEST OUTAGE DAYS IN MARCH ATTRIBUTED TO THE REPLACEMENT OF THE PO-1 TEST ASSEMBLY.

MAR 1988

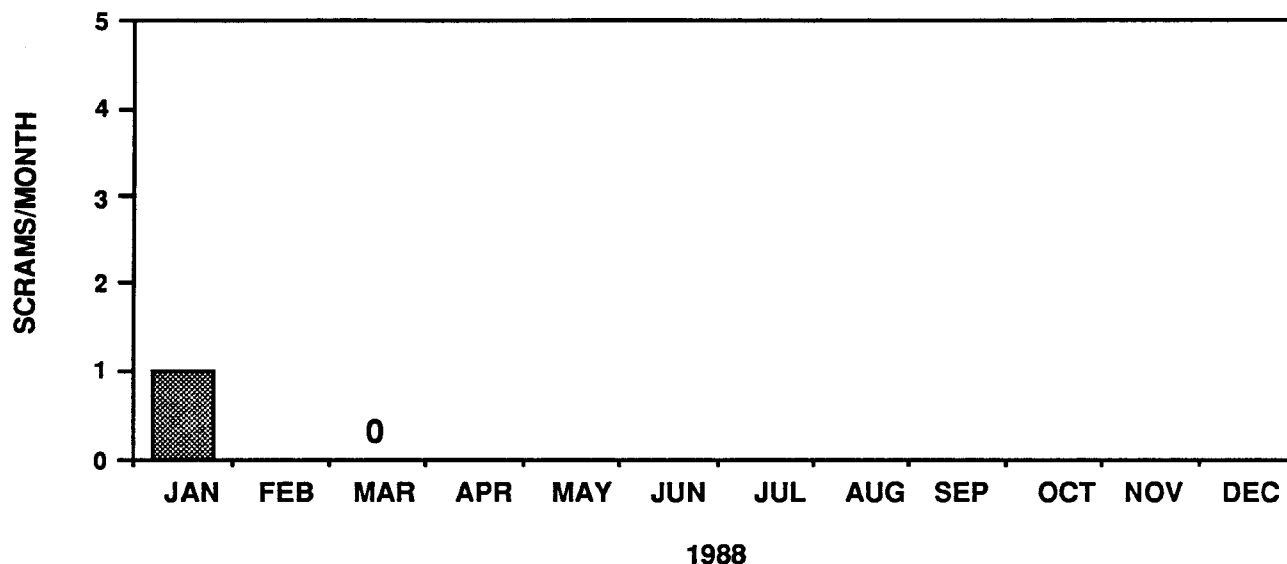
W. M. RITTER

376-0758

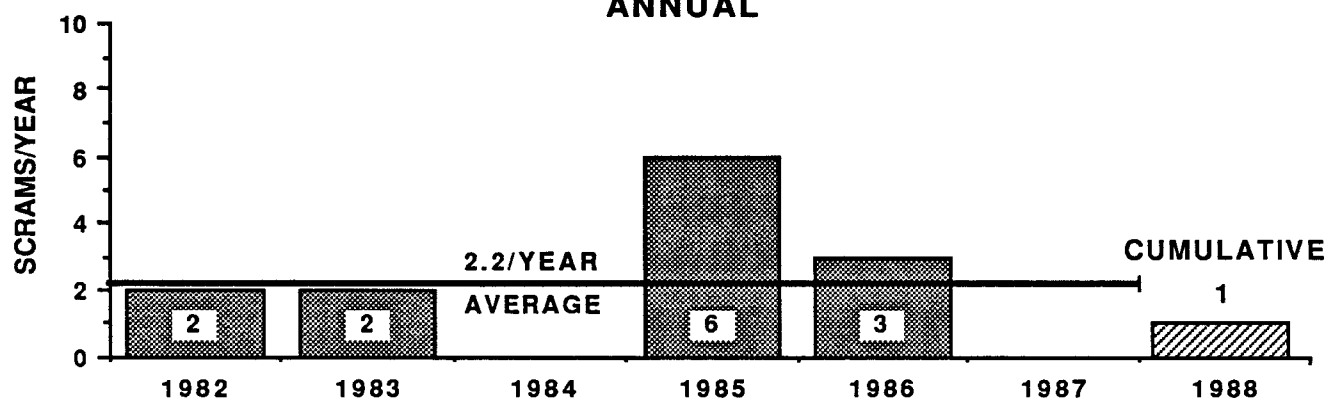
FIGURE 1

UNPLANNED SCRAMS

MONTHLY



ANNUAL



PURPOSE

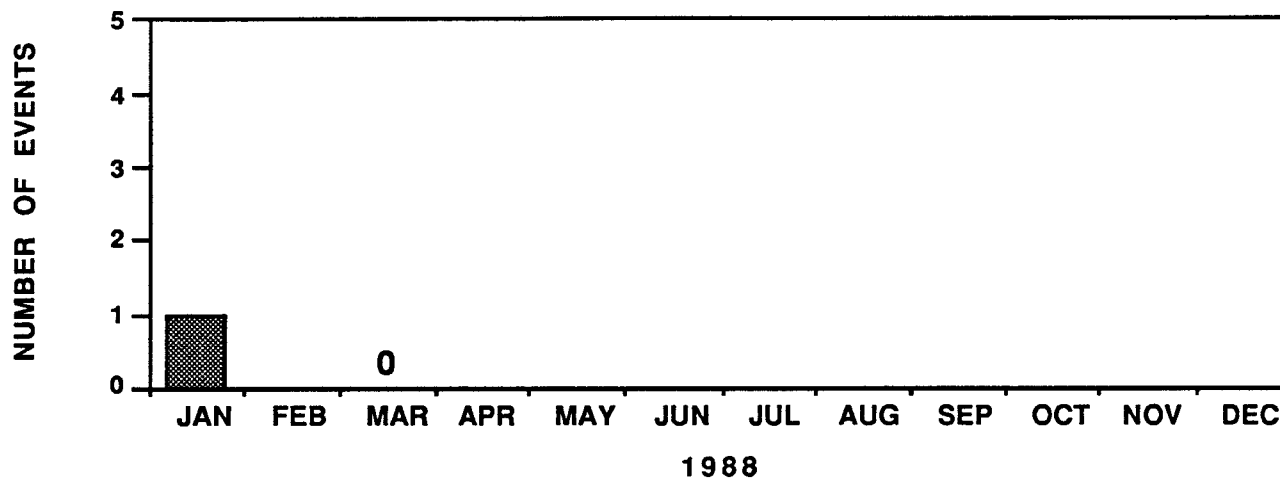
TO MONITOR THE NUMBER OF UNPLANNED AUTOMATIC SCRAMS THAT OCCUR WHILE THE REACTOR IS CRITICAL. UNPLANNED MEANS THAT THE SCRAM WAS NOT PART OF A PLANNED OPERATION OR TEST. UNPLANNED AUTOMATIC SCRAMS INCLUDE, FOR EXAMPLE, AUTOMATIC SCRAMS RESULTING FROM A TRANSIENT, AN EQUIPMENT FAILURE, A SPURIOUS SIGNAL, OR HUMAN ERROR.

ASSESSMENT

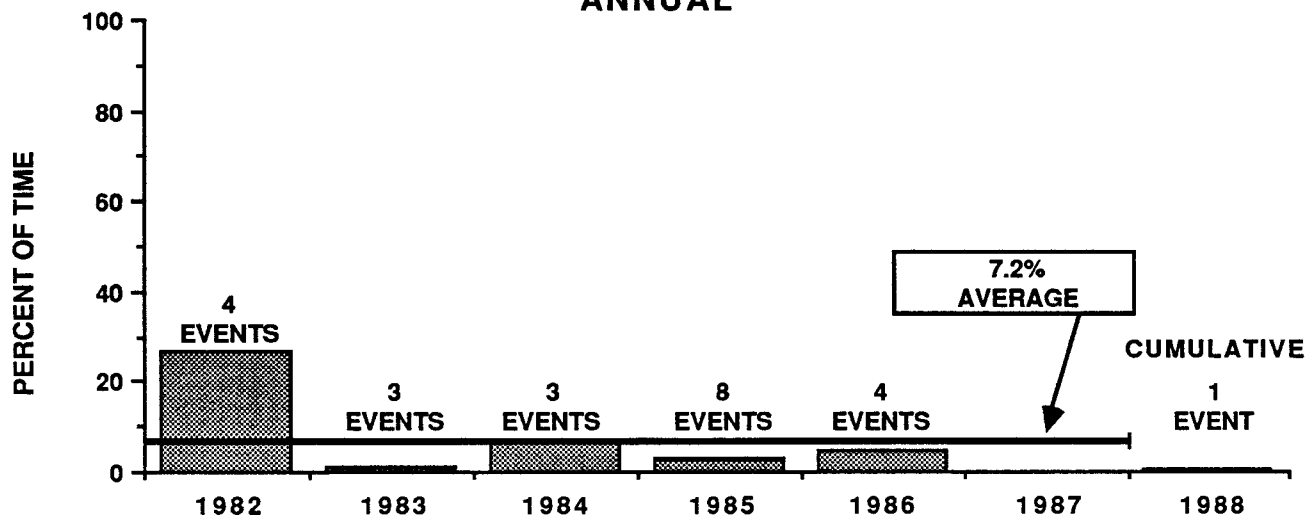
THERE WERE NO UNPLANNED AUTOMATIC SCRAMS DURING THE MONTH OF MARCH.

FORCED OUTAGES

MONTHLY



ANNUAL



PURPOSE

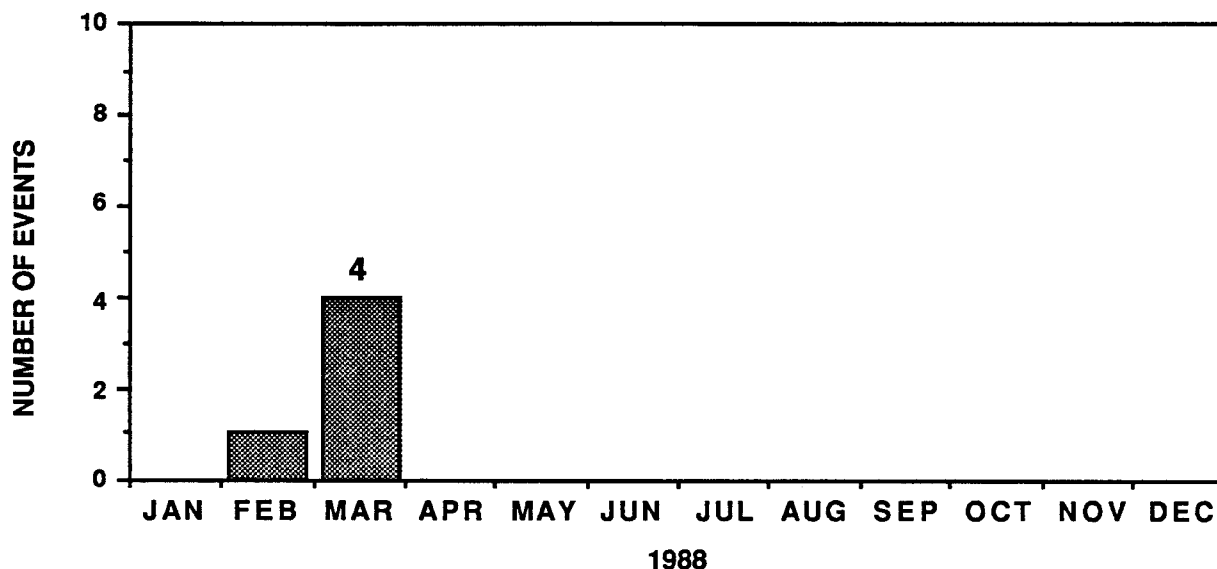
TO MONITOR THE PERCENTAGE OF TIME THAT THE REACTOR WAS NOT AVAILABLE FOR IRRADIATION TESTING DUE TO A FORCED SHUTDOWN. A FORCED SHUTDOWN IS ONE THAT WOULD NOT HAVE BEEN COMPLETED IN THE ABSENCE OF THE CONDITION FOR WHICH CORRECTIVE ACTION WAS TAKEN. TEST OUTAGES ARE NOT CONSIDERED FORCED SHUTDOWNS.

ASSESSMENT

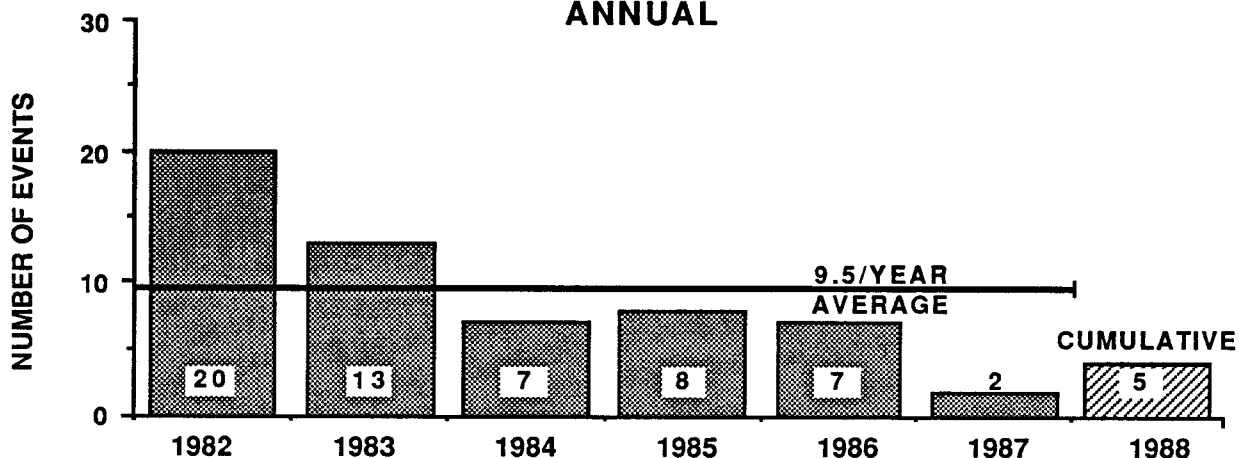
THERE WERE NO FORCED OUTAGES DURING THE MONTH OF MARCH.

UNUSUAL OCCURRENCE REPORTS

MONTHLY



ANNUAL



PURPOSE

TO MONITOR THE NUMBER OF UNUSUAL OCCURRENCE REPORTS (UOR). A UOR IS AN EVENT OUTSIDE NORMAL OPERATIONS THAT CAUSES OR RISKS SERIOUS INJURY TO PERSONNEL, SERIOUS THREAT TO THE ENVIRONMENT, OR HAS SIGNIFICANT EFFECT UPON SAFETY, RELIABILITY OR COST OF FFTF OR FFTF PROGRAMS.

ASSESSMENT

FOUR UNUSUAL OCCURRENCE REPORTS WERE ISSUED THIS MONTH. TWO ADDRESSED INDEPENDENT PROBLEMS AFFECTING THE EMERGENCY AIRLOCK DOOR INTERLOCKS. THE OTHERS REPORTED LIMITS FOR THE RADIOACTIVE SHIPMENTS IN GAS TAG SAMPLE TRAPS AND A DROPPED CRANE LOAD WHILE USING A NEW LOAD LEVELING DEVICE.

MAR 1988

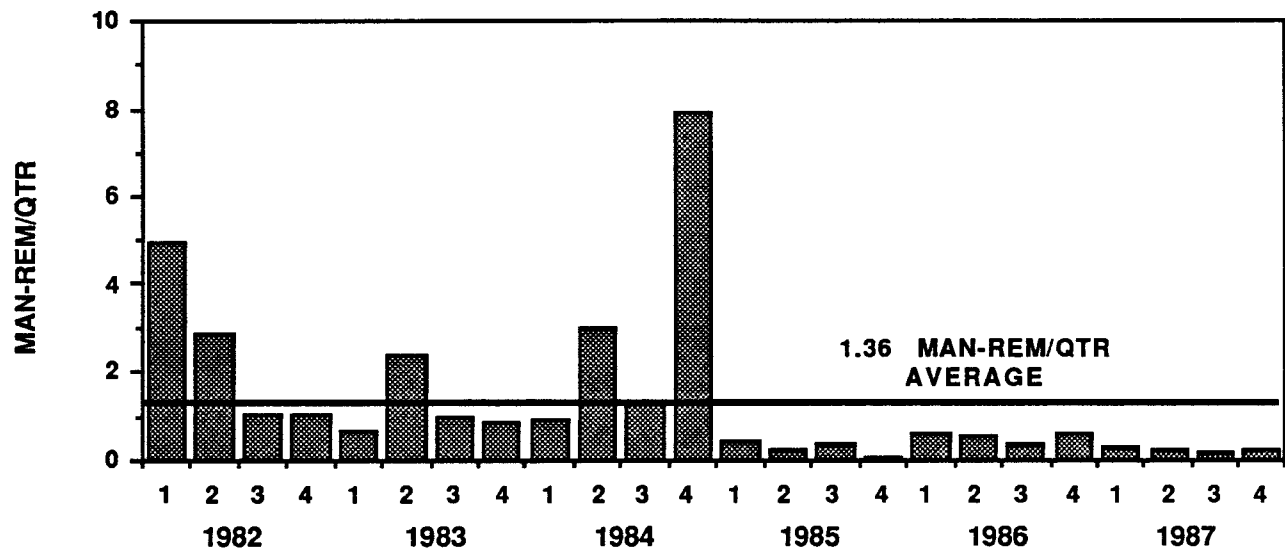
D. J. SWAIM

376-0604

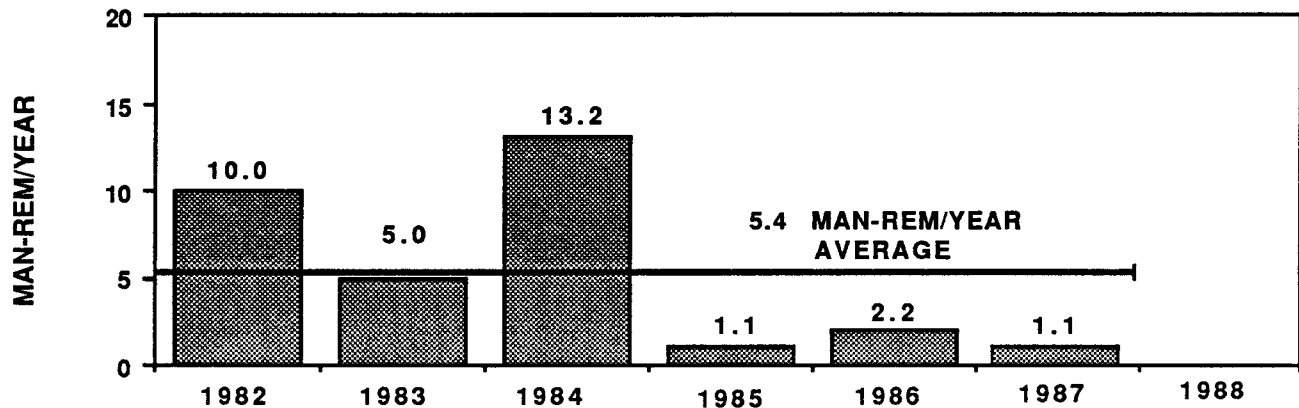
FIGURE 4

PERSONNEL RADIATION EXPOSURE

QUARTERLY MAN-REM EXPOSURE



ANNUAL MAN-REM EXPOSURE



PURPOSE

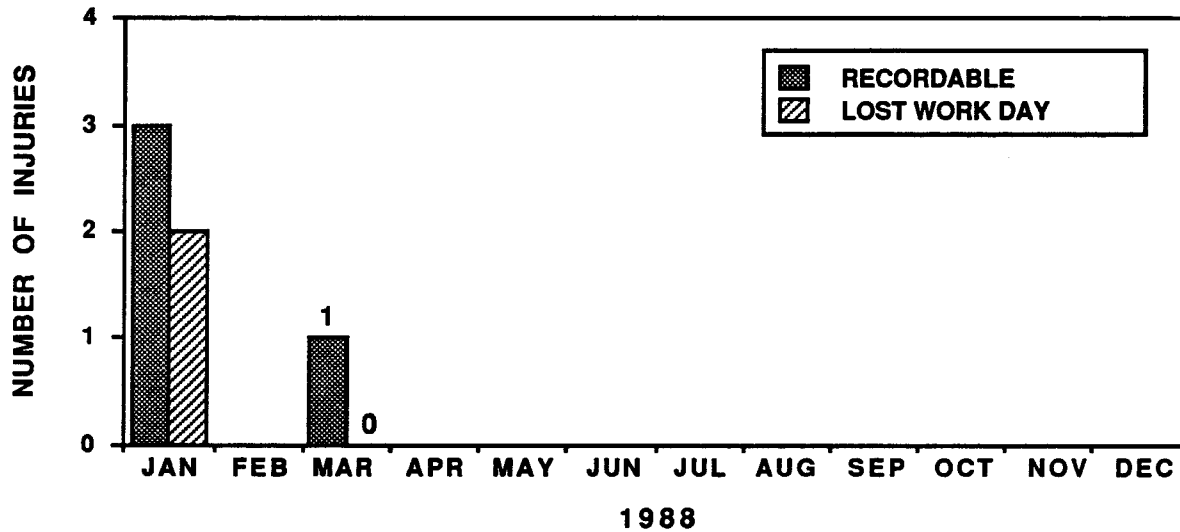
TO MONITOR THE QUARTERLY RADIATION EXPOSURE TO THE FFTF RADIATION WORKERS. DUE TO THE VERY LOW EXPOSURES, DATA IS COLLECTED AND REPORTED QUARTERLY.

ASSESSMENT

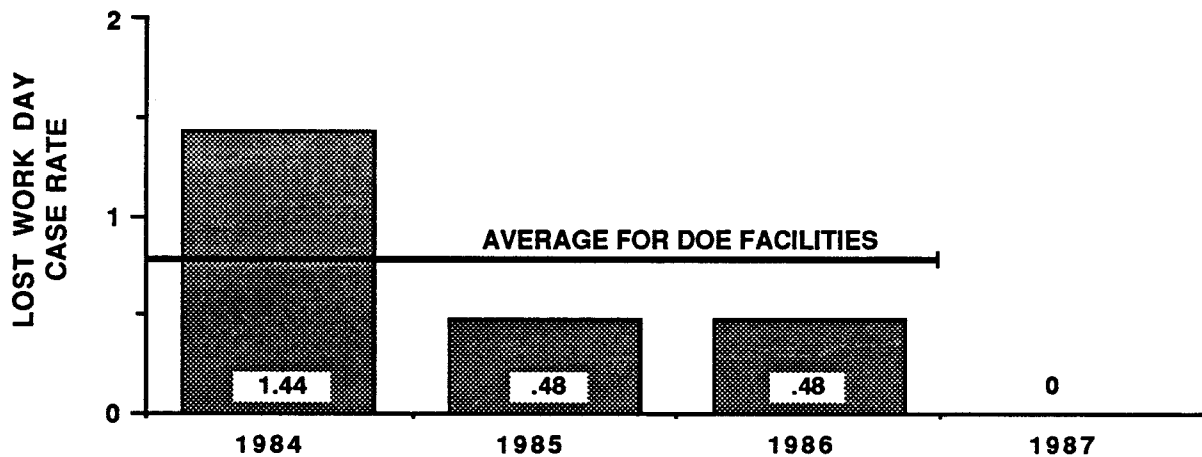
PLANT PERSONNEL RADIATION EXPOSURE DURING THE FOURTH QUARTER 1987 REMAINED LOW. THE HIGHEST INDIVIDUAL EXPOSURE WAS 40 MREM. WITH 200 RADIATION WORKERS AT FFTF THE AVERAGE EXPOSURE IS LESS THAN 2 MREMS PER WORKER PER QUARTER.

INDUSTRIAL SAFETY STATISTICS

MONTHLY INJURIES



ANNUAL LOST WORK DAY CASE RATE



PURPOSE

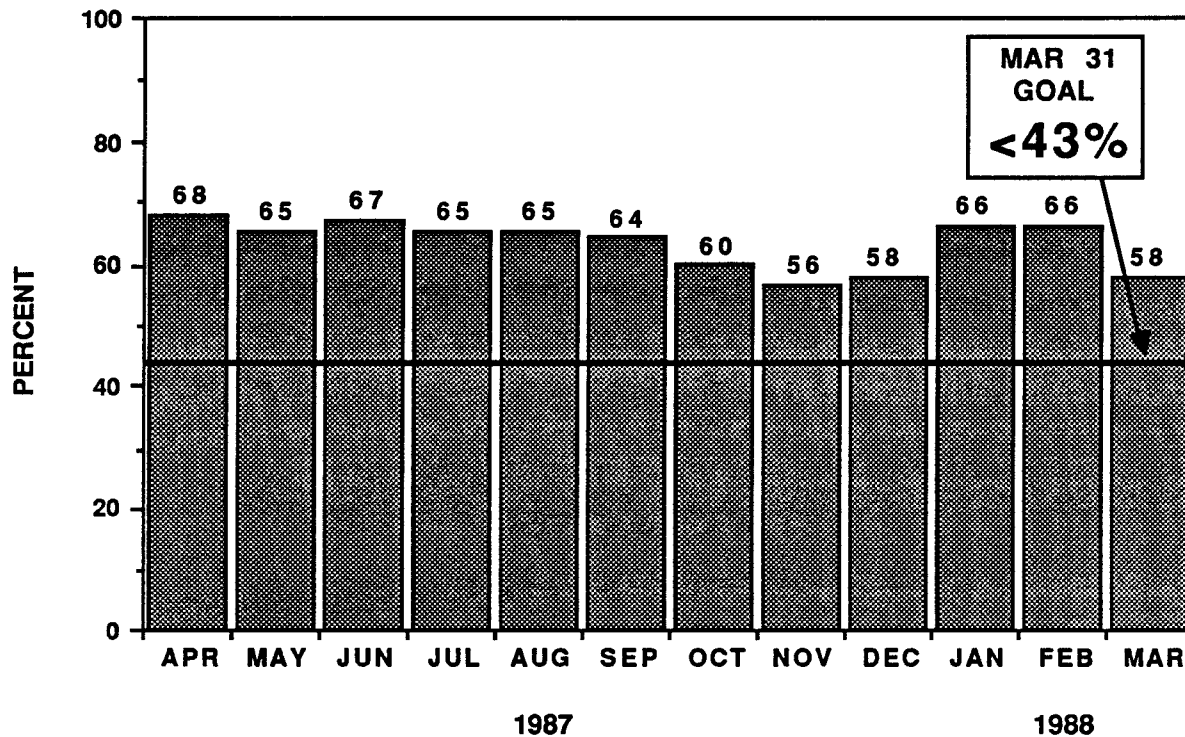
TO MONITOR THE NUMBER OF RECORDABLE AND LOST WORK DAY INJURIES. THE LOST WORK DAY INJURY INCIDENT RATE (THE NUMBER OF LOST TIME INJURIES PER 200,000 EMPLOYEE-HOURS) IS ALSO MONITORED FOR PERMANENT SITE PERSONNEL.

ASSESSMENT

THERE WAS ONE OSHA RECORDABLE INJURY AT FFTF DURING THE MONTH OF MARCH. A MAINTENANCE ENGINEER CUT HIS HAND WHILE HANDLING A MANIPULATOR MASTER ON THE 550' LEVEL OF THE RCB.

CORRECTIVE MAINTENANCE WORKOFF RATE

CORRECTIVE MAINTENANCE BACKLOG GREATER THAN THREE MONTHS OLD



PURPOSE

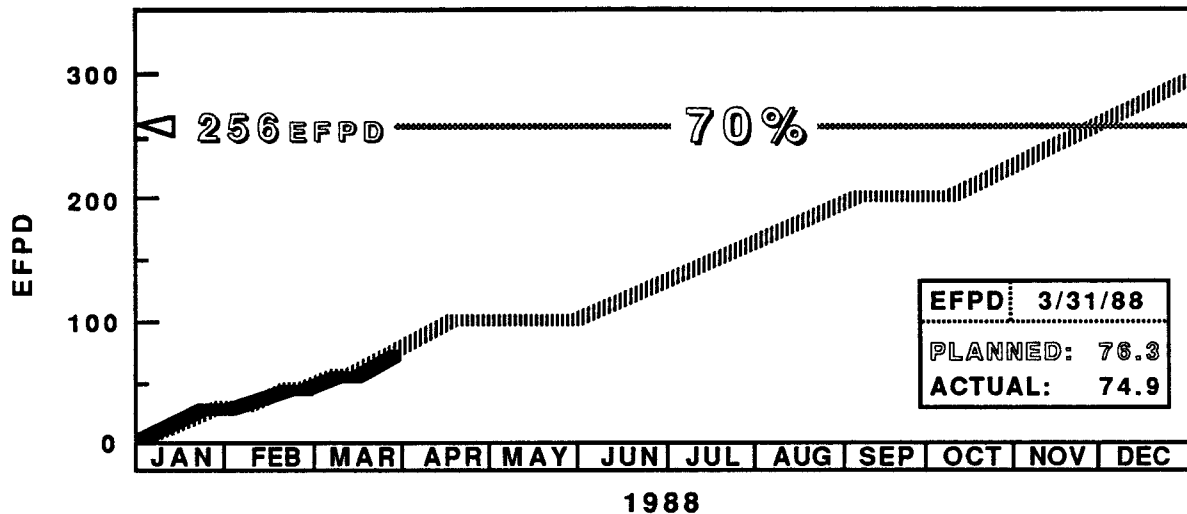
TO MONITOR THE RATE OF COMPLETION OF CORRECTIVE MAINTENANCE ITEMS. THIS CHART INDICATES THE EFFICIENCY OF THE FFTF WORK CONTROL PROCESS AND THE STAFF'S ABILITY TO FOLLOW THROUGH ON THE DISPOSITION, SCHEDULING, FIELD WORK, AND CLOSE OUT OF CORRECTIVE MAINTENANCE.

ASSESSMENT

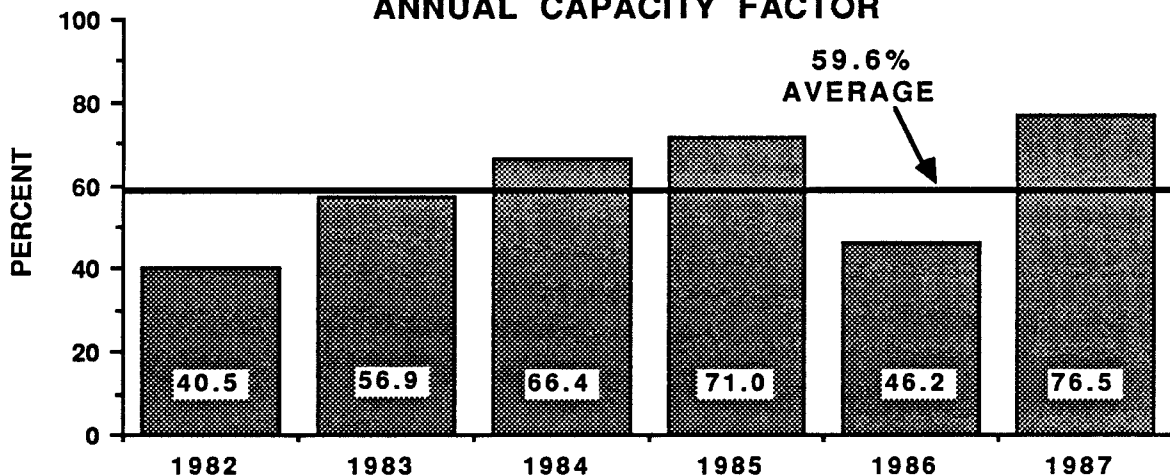
THE TOTAL BACKLOG DECREASED SIGNIFICANTLY DURING MARCH TO 58%. EVENTHOUGH THE MARCH 31 GOAL IS BEHIND US, WE NOW HAVE A NEW GOAL DATE OF SEPTEMBER 30 TO ACHIEVE 43%. WITH A CONTINUED CONCERTED EFFORT THIS CHALLENGE CAN BE MET.

CAPACITY FACTOR

TARGET 70% ANNUAL CAPACITY FACTOR



ANNUAL CAPACITY FACTOR



PURPOSE

TO MONITOR THE PLANT'S ABILITY TO PERFORM AT RATED POWER. CAPACITY FACTOR IS DEFINED AS THE ACTUAL EFPD DIVIDED BY THE PRODUCT OF THE CALENDAR DAYS IN THE REPORTING PERIOD TIMES THE MAXIMUM DEPENDABLE CAPACITY (MDC) FOR THE PERIOD. THE MDC FOR CDE CYCLES IS 1.0. FOR CYCLES PRIOR TO SEPTEMBER 1986, THE MDC WAS 0.973.

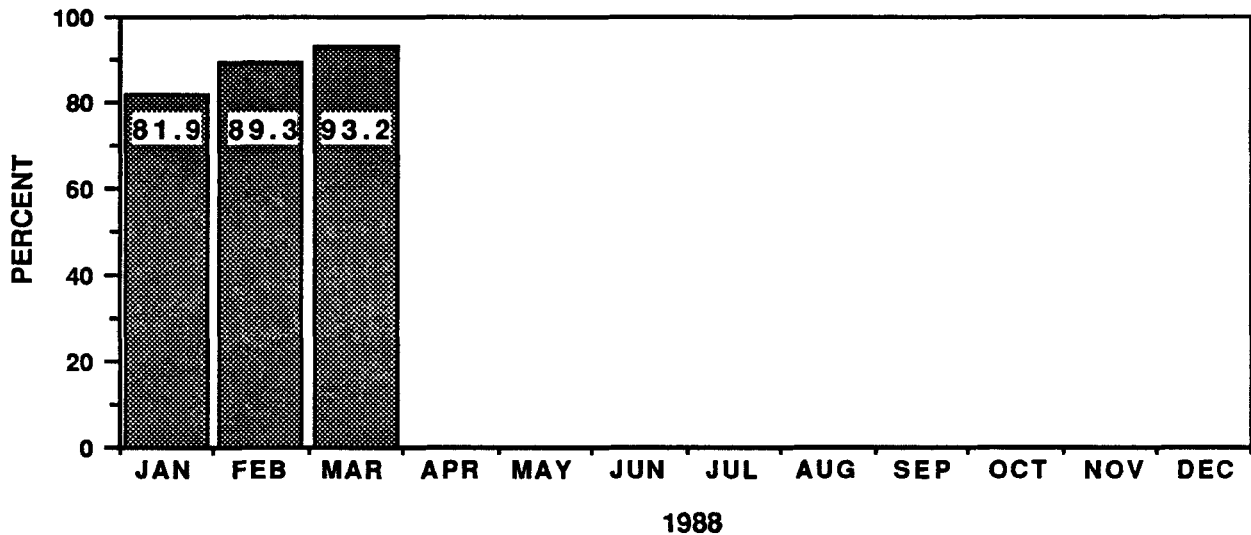
ASSESSMENT

THE CAPACITY FACTOR FOR THE MONTH OF MARCH WAS 87.4%.

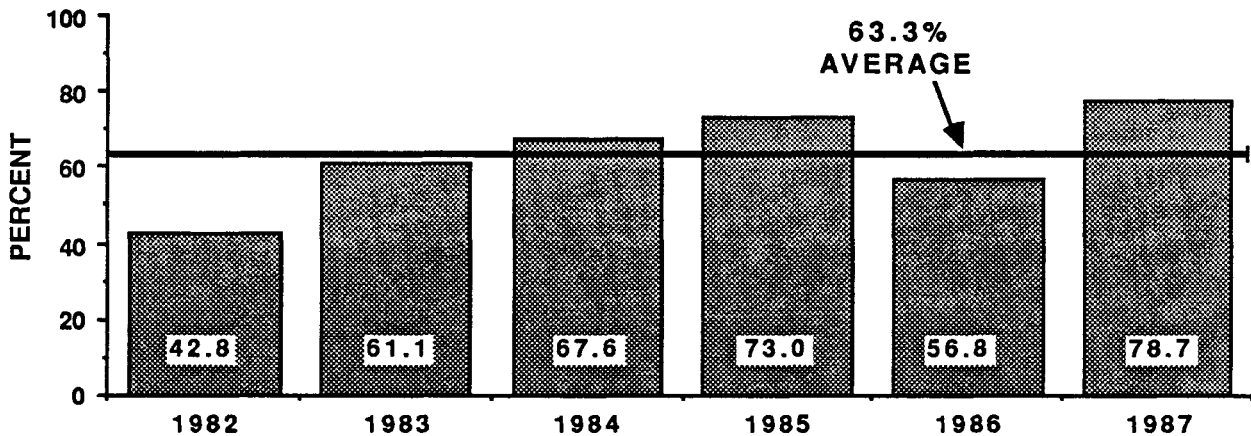
THE REACTOR WAS STARTED UP ON 3/7/88 FOLLOWING A TWO-DAY OUTAGE FOR THE REPLACEMENT OF THE PO-1 TEST ASSEMBLY.

AVAILABILITY FACTOR

MONTHLY AVAILABILITY FACTOR



ANNUAL AVAILABILITY FACTOR



PURPOSE

TO MONITOR THE PLANT'S ABILITY TO CONDUCT IRRADIATION PROGRAM ACTIVITIES. AVAILABILITY FACTOR IS DEFINED AS THE PERCENT OF TIME THAT THE PLANT IS AT OR ABOVE CRITICAL.

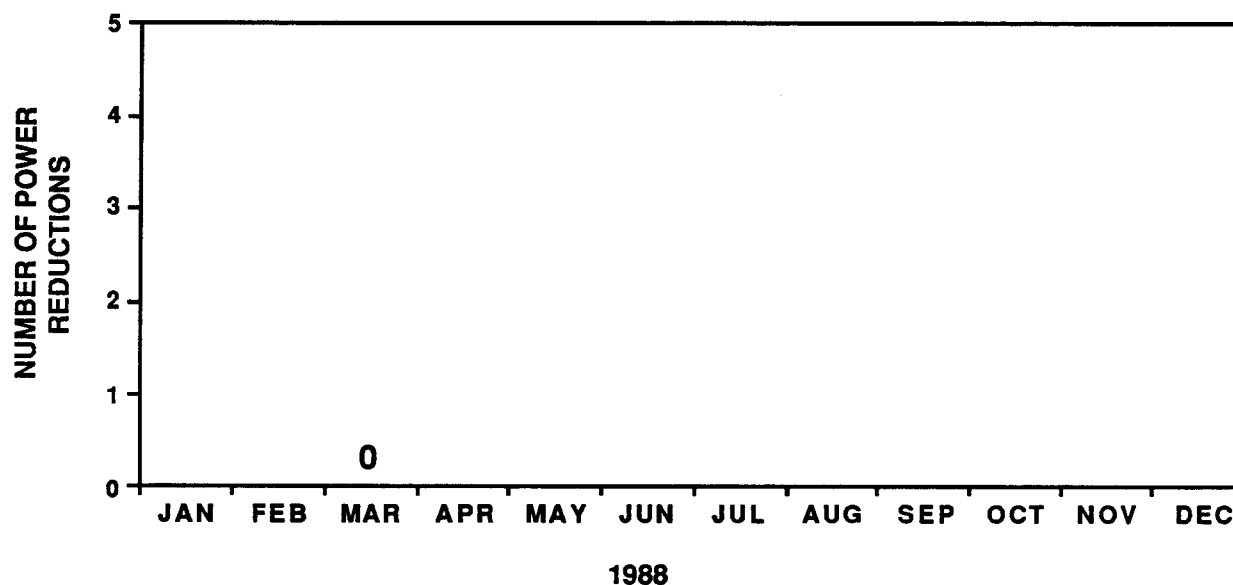
ASSESSMENT

THE MARCH AVAILABILITY FACTOR WAS 93.2%.

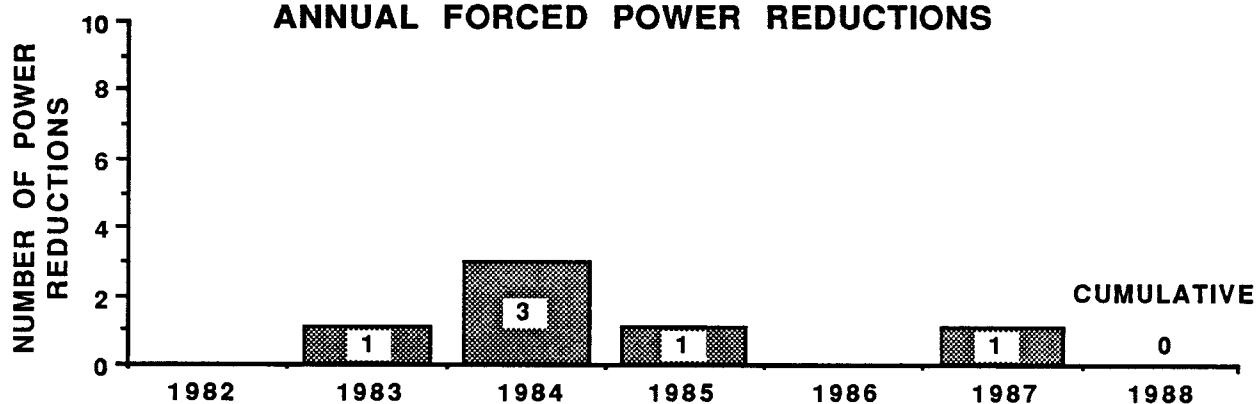
THE REACTOR WAS STARTED UP ON 3/7/88 FOLLOWING A TWO-DAY OUTAGE FOR THE REPLACEMENT OF THE PO-1 TEST ASSEMBLY.

FORCED POWER REDUCTIONS

MONTHLY FORCED POWER REDUCTIONS



ANNUAL FORCED POWER REDUCTIONS



PURPOSE

TO MONITOR THE NUMBER OF SIGNIFICANT FORCED POWER REDUCTIONS THAT DO NOT RESULT IN POWER REDUCTIONS BELOW 5% POWER. A SIGNIFICANT POWER REDUCTION IS DEFINED AS A POWER REDUCTION GREATER THAN 20% BELOW THE AVERAGE DAILY POWER LEVEL FOR THE PRECEDING 24 HOURS. A FORCED POWER REDUCTION IS ONE THAT WOULD NOT HAVE OCCURRED IN THE ABSENCE OF THE CONDITION FOR WHICH CORRECTIVE ACTION WAS TAKEN.

ASSESSMENT

THERE WERE NO FORCED POWER REDUCTIONS DURING THE MONTH OF MARCH.

MAR 1988

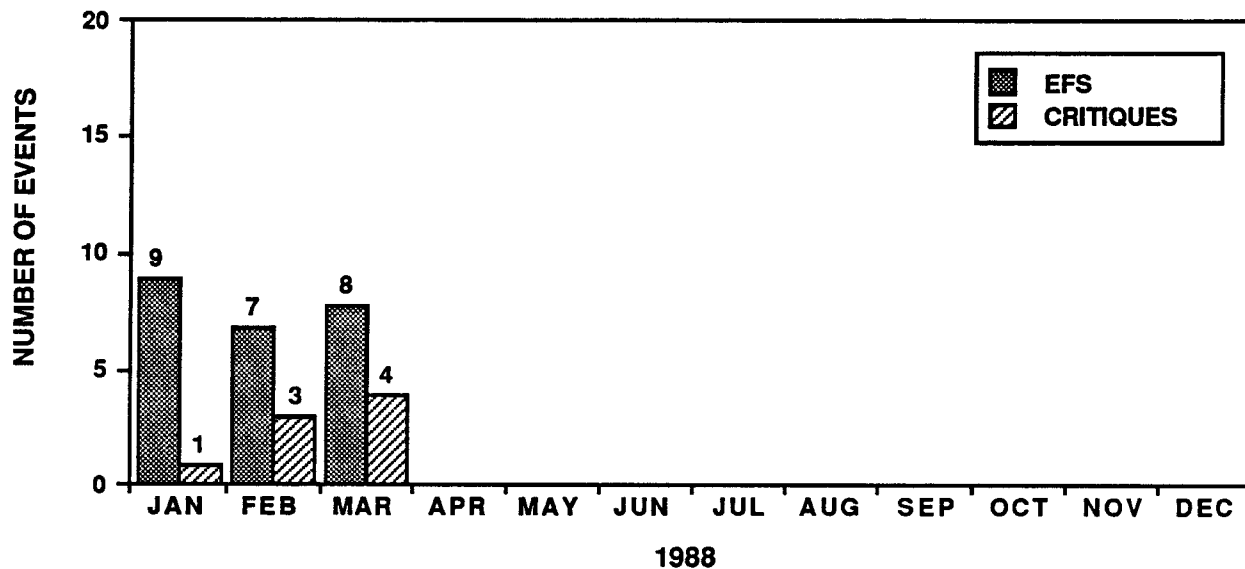
D. J. SWAIM

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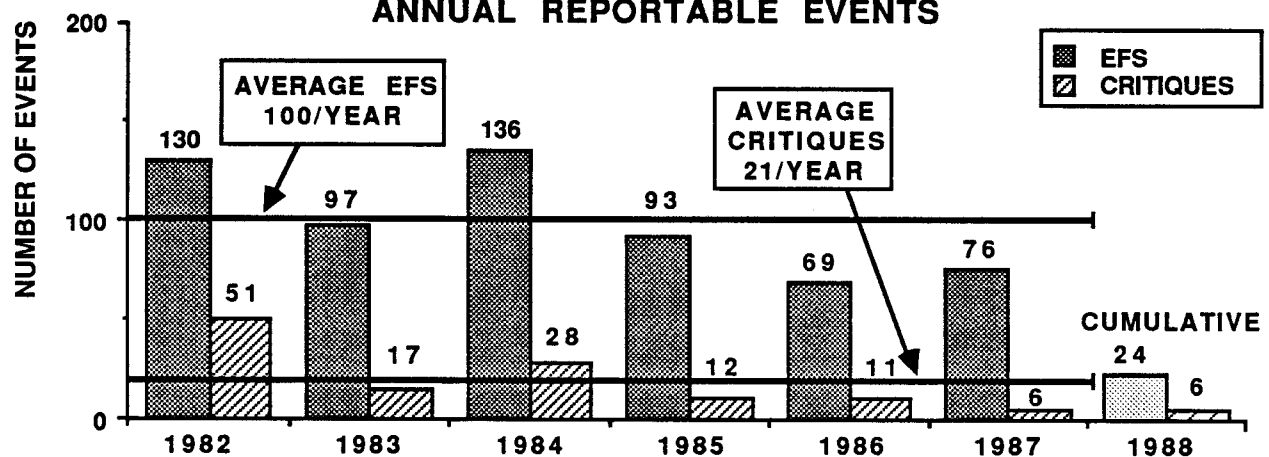
FIGURE 10

REPORTABLE EVENTS

MONTHLY REPORTABLE EVENTS



ANNUAL REPORTABLE EVENTS



PURPOSE

TO MONITOR THE NUMBER OF EVENT FACT SHEETS (EFS) AND CRITIQUES. AN EVENT FACT SHEET RECORDS ANY SIGNIFICANT DEVIATION THAT MAY OR MAY NOT BE REPORTABLE AS A CRITIQUE OR UNUSUAL OCCURRENCE REPORT (UOR). A CRITIQUE IS AN EVALUATION OF THOSE EVENTS THAT DO NOT MEET THE CRITERIA FOR A UOR, BUT REQUIRE INVESTIGATION BEYOND THAT IDENTIFIED IN AN EFS.

ASSESSMENT

THERE WERE EIGHT EVENT FACT SHEETS AND TWO CRITIQUES WRITTEN THIS MONTH. ONE CRITIQUE EVALUATED MISSED TECHNICAL SPECIFICATION LOG SURVEILLANCE; THE OTHER INVOLVED A COMPONENT DAMAGED DURING A CRANE LIFT DURING REMOVAL FROM THE IEM CELL.

MAR 1988

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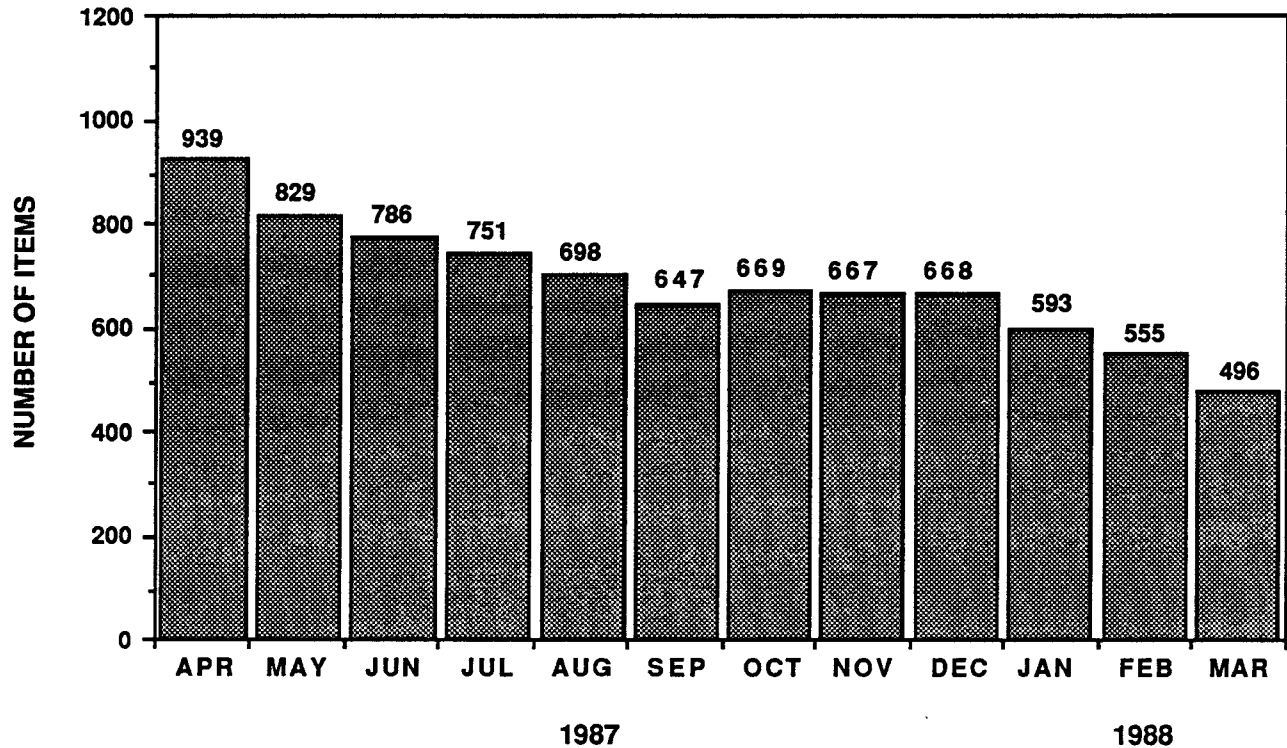
376-0604

FIGURE 11

TBD			
PURPOSE			
ASSESSMENT			
MAR 1988			FIGURE 12

CORRECTIVE MAINTENANCE BACKLOG

TOTAL CORRECTIVE MAINTENANCE BACKLOG



PURPOSE

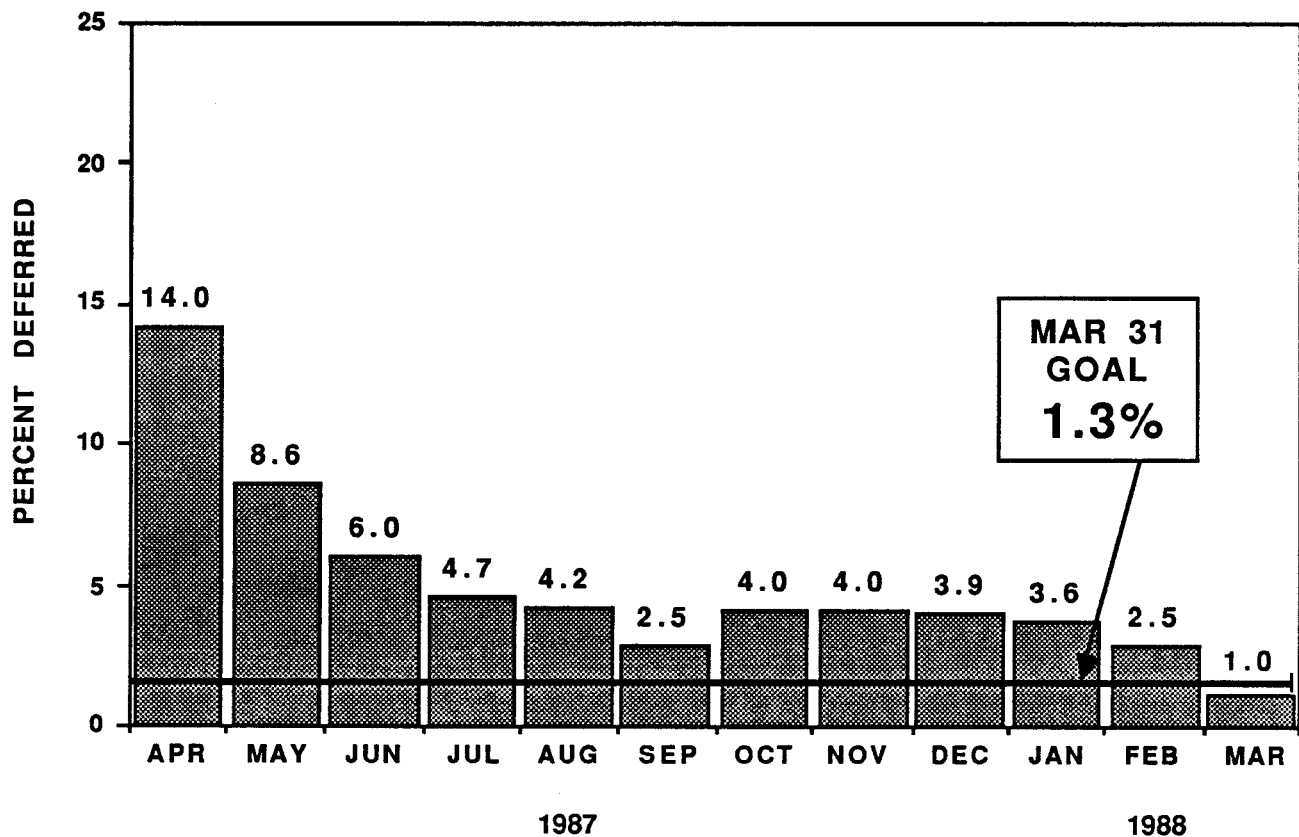
TO MONITOR THE OVERALL MATERIAL CONDITION OF THE FFTF. CORRECTIVE MAINTENANCE IS DEFINED AS ACTIVITY THAT REPAIRS, RESTORES, OR MODIFIES PLANT EQUIPMENT TO RESTORE IT TO THE INTENDED DESIGN CONDITION OR FUNCTION.

ASSESSMENT

THE TOTAL CORRECTIVE MAINTENANCE BACKLOG DECREASED SIGNIFICANTLY DURING MARCH. CONTINUED FOCUS ON TOTAL BACKLOG REDUCTION HAS PAID OFF WELL DURING THE PAST THREE MONTHS, BRINGING THE TOTAL CORRECTIVE MAINTENANCE BACKLOG BELOW 500.

PROTECTIVE MAINTENANCE PERFORMANCE

PROTECTIVE MAINTENANCE ITEMS DEFERRED



PURPOSE

TO MONITOR THE NUMBER OF PROTECTIVE MAINTENANCE (PMP AND ICR) ITEMS THAT HAVE BEEN DEFERRED. IT ILLUSTRATES THE ORGANIZATION'S ABILITY TO SCHEDULE AND COMPLETE ROUTINE MAINTENANCE.

ASSESSMENT

THE PROTECTIVE MAINTENANCE BACKLOG HAS BEEN REDUCED TO BELOW THE 1986 INPO BEST QUARTILE FOR NUCLEAR POWER PLANTS (1.3%). FUTURE EFFORTS WILL BE DIRECTED AT MAINTAINING THE BACKLOG BETWEEN 0.5% AND 1.5%.

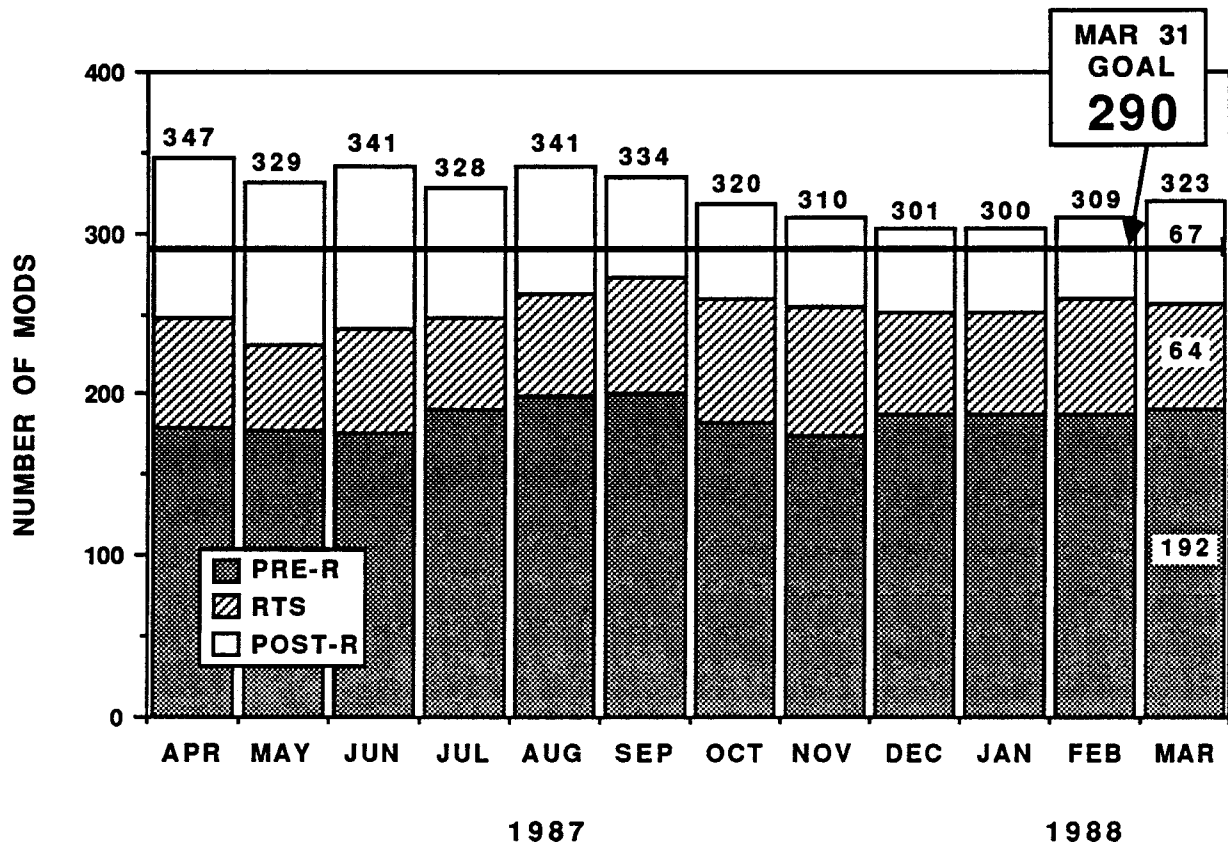
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R. D. REDEKOPP

376-9668

FIGURE 14

MODIFICATION STATUS



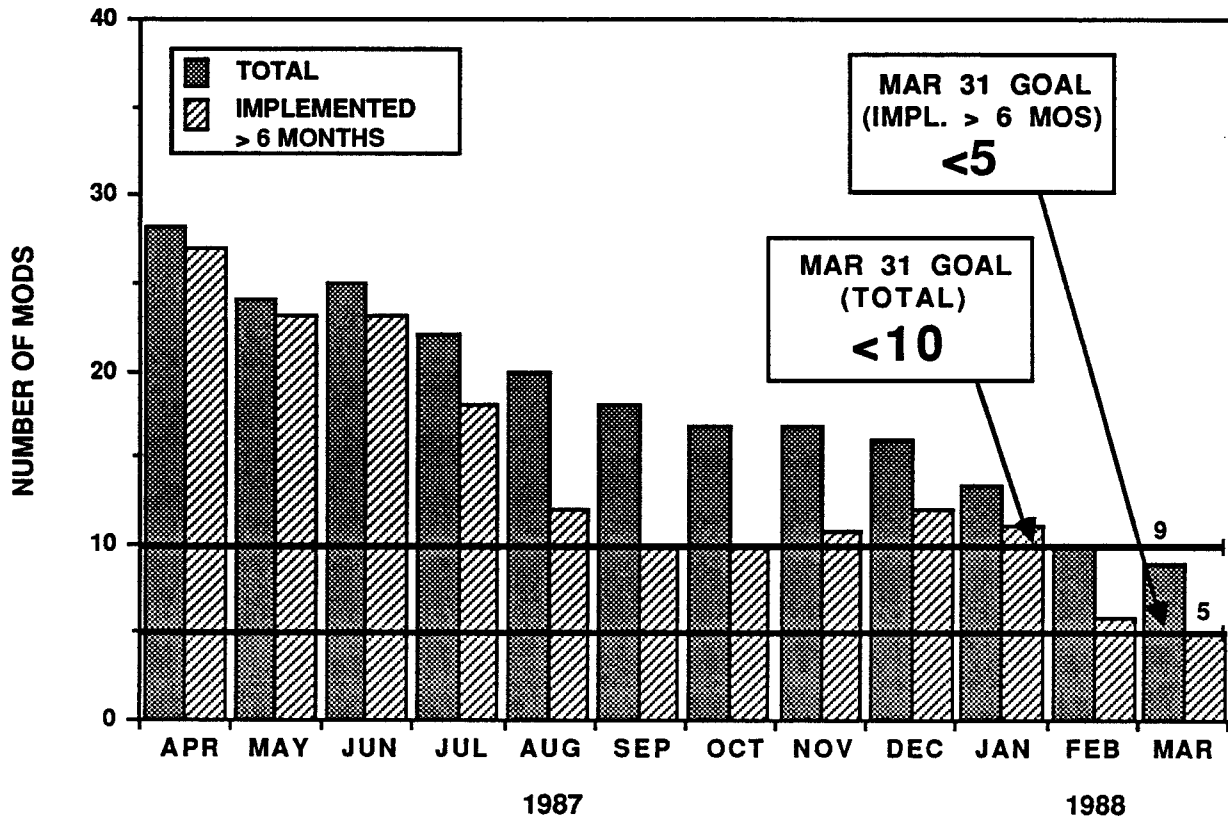
PURPOSE

TO MONITOR THE NUMBER OF PLANT MODIFICATIONS THAT ARE ACTIVE IN THE PLANT TRACKING SYSTEM (PTS). IT ILLUSTRATES THE ORGANIZATION'S ABILITY TO DESIGN AND IMPLEMENT CHANGES IN THE PLANT.

ASSESSMENT

THE TOTAL NUMBER OF OUTSTANDING MODIFICATIONS INCREASED TO 323 DURING MARCH. WITH A GROWTH OF TWELVE NEW PLANT MODIFICATIONS AND NINETEEN ADDED TO POST-REVIEW FROM PTS AND PRE-RELEASE, THERE IS A NEED TO PLACE A CONCERTED EFFORT IN THE RETENTING OF COMPLETED PLANT MODIFICATIONS IN ORDER TO DECREASE BELOW THE 290 GOAL.

TEMPORARY MODIFICATION STATUS



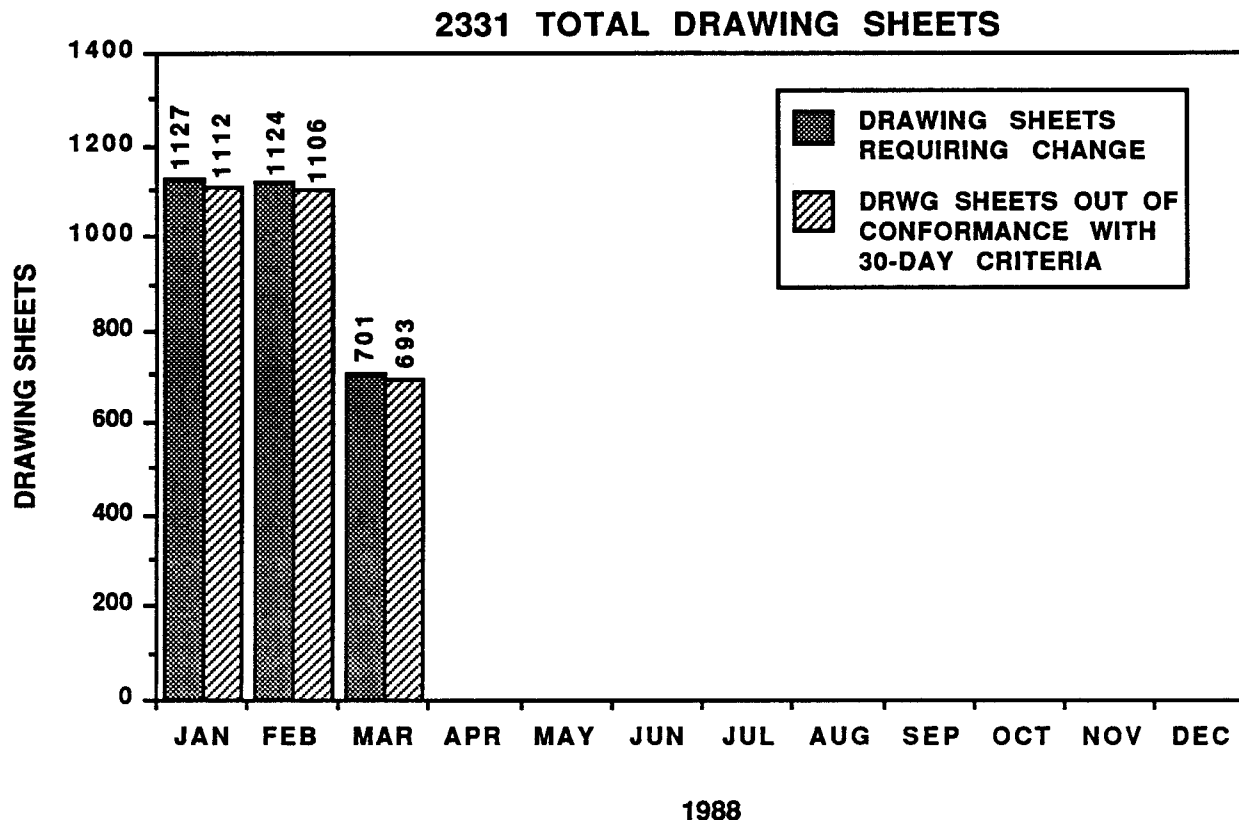
PURPOSE

TO MONITOR THE NUMBER OF MODIFICATIONS THAT ARE NOT PERMANENT. IT ALSO MONITORS THE ORGANIZATION'S ABILITY TO COMPLETE THE DOCUMENTATION AND PROVIDE PERMANENT CHANGES TO THE FFTF.

ASSESSMENT

THE TOTAL NUMBER OF TEMPORARY MODIFICATIONS DECREASED TO NINE, THUS EXCEEDING OUR MARCH 31 GOAL BY ONE ITEM. THE TEMPORARY PLANT MODIFICATIONS GREATER THAN SIX MONTHS OLD DECREASED TO FIVE, THUS MEETING OUR MARCH 31 GOAL.

ESSENTIAL DRAWING STATUS



PURPOSE

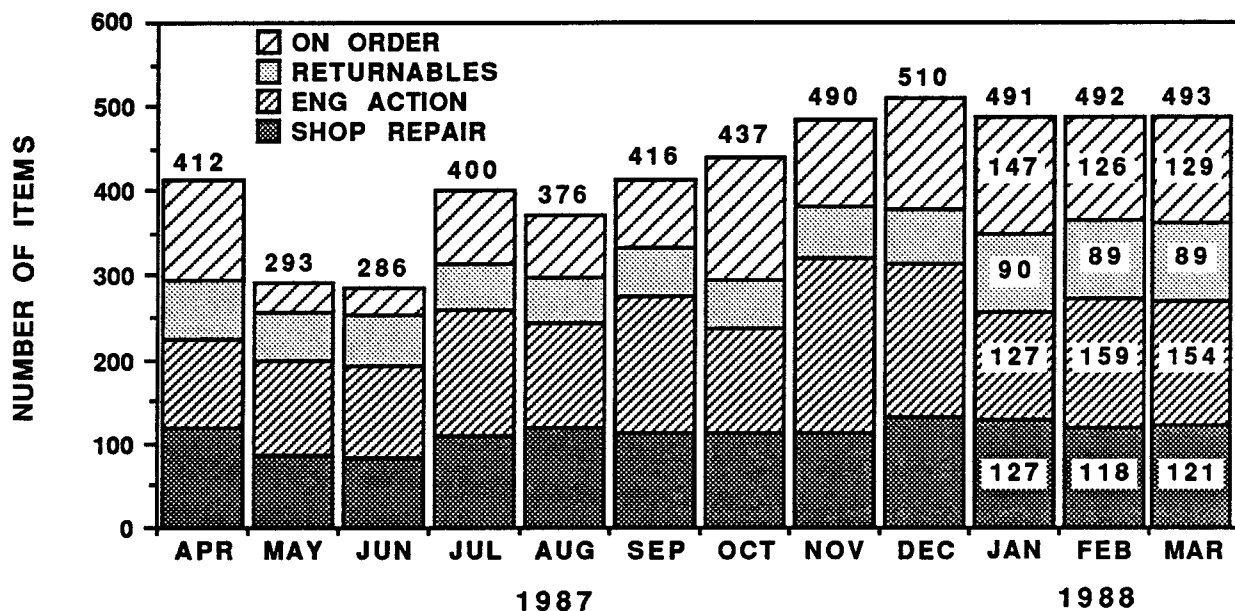
TO MONITOR THE TOTAL NUMBER OF ESSENTIAL DRAWING SHEETS REQUIRING THE INCORPORATION OF ENGINEERING CHANGE NOTICES (ECN'S) THAT MAKE UP THE CONTROL ROOM CRITICAL FILE. ALSO TO MONITOR THE ESSENTIAL DRAWING SHEET CHANGES THAT HAVE NOT BEEN REVISED WITHIN THIRTY WORKING DAYS AFTER COMPLETION OF THE FIELD WORK PACKAGE.

ASSESSMENT

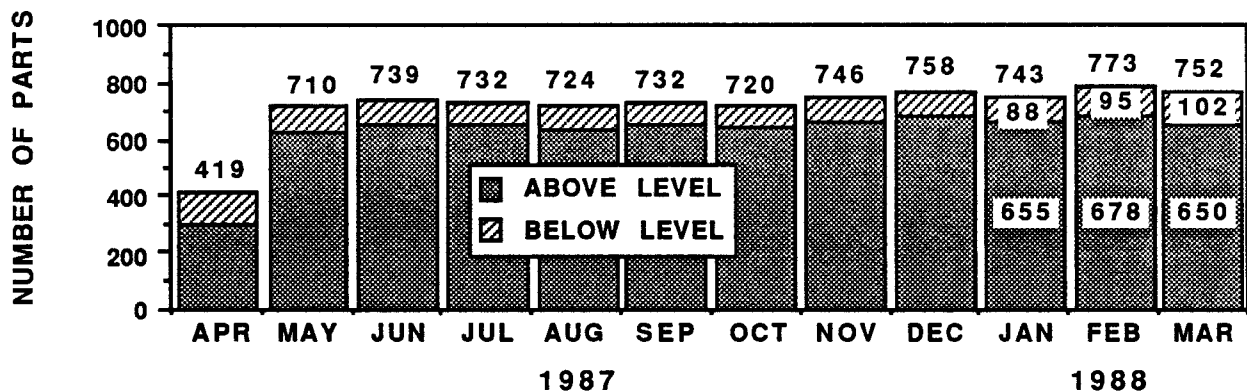
SIGNIFICANT PROGRESS WAS MADE IN REDUCING THE NUMBER OF UNINCORPORATED CHANGES INTO ESSENTIAL DRAWINGS. CONTINUED PROGRESS IS EXPECTED UPON RESOLUTION OF FUNDING REALLOCATION FOR ADDRESSING REPRODUCTION OF REVISED DRAWINGS.

REPAIR PARTS AVAILABILITY

LINE ITEMS BELOW MINIMUM INVENTORY



REPAIR PARTS AWAITING REPAIR



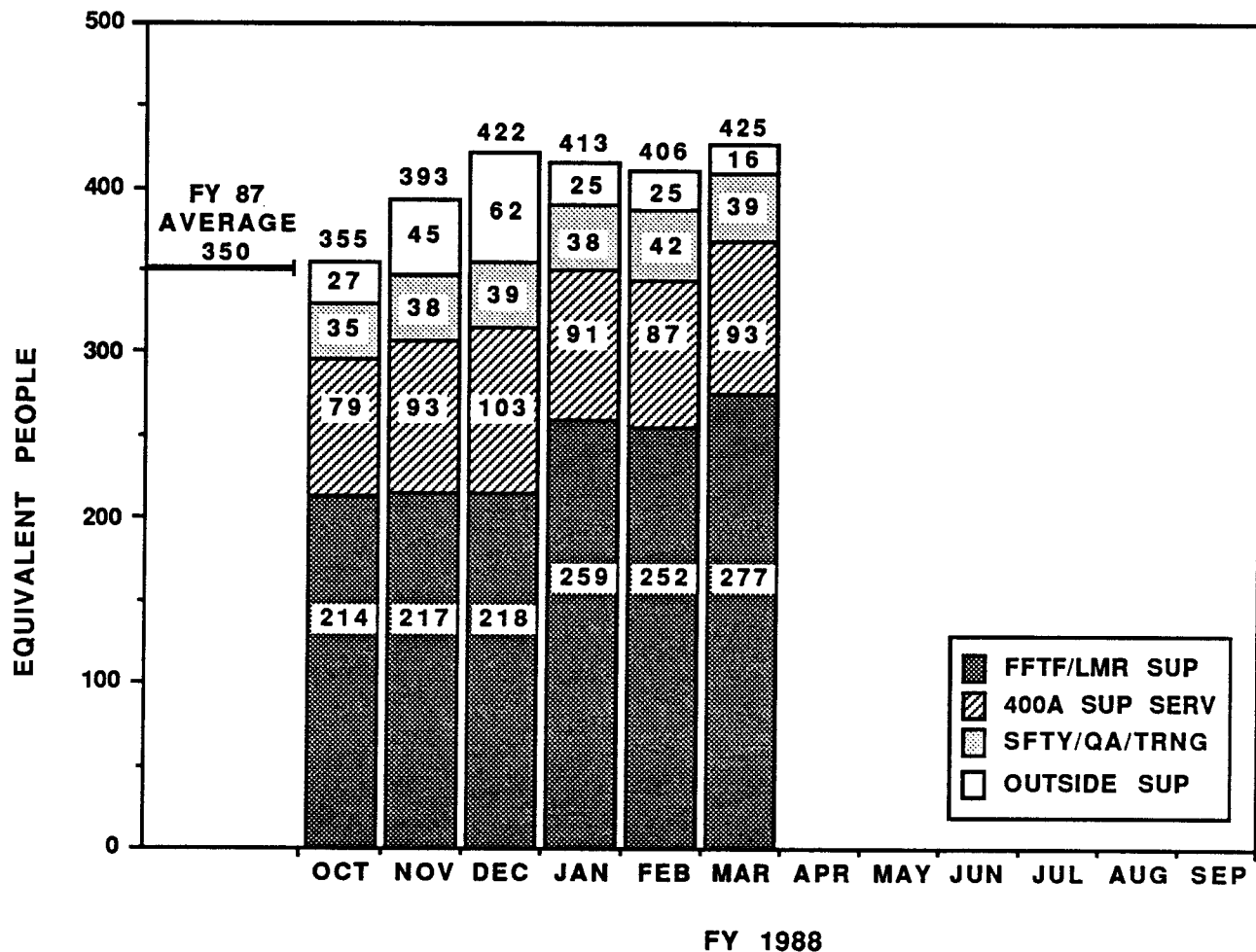
PURPOSE

TO MONITOR THE SPARE PARTS AVAILABILITY BY SHOWING THE NUMBER OF LINE ITEMS BELOW THE MINIMUM NUMBER OF PARTS SPECIFIED BY THAT ITEM AND THE NUMBER OF THOSE PARTS WHICH ARE IN THE SHOP AWAITING REPAIR. A BREAKDOWN OF ACTIONS REQUIRED TO RETURN THE PARTS TO INVENTORY IS ALSO INDICATED.

ASSESSMENT

THE LINE ITEMS BELOW MINIMUM INVENTORY REMAIN AT A CONSTANT LEVEL.
THE PARTS REQUIRING REPAIR HAVE HAD A SMALL OVERALL GAIN.

STAFFING STATUS



PURPOSE

TO MONITOR THE NUMBER OF EQUIVALENT PEOPLE AND TO FOCUS ON KEY POSITIONS THAT ARE CURRENTLY LESS THAN 85% OF AUTHORIZED LEVELS. THE NUMBER OF EQUIVALENT PEOPLE IS OBTAINED BY DIVIDING THE NUMBER OF REGULAR WORK HOURS CHARGED BY THE WORK HOURS AVAILABLE IN THE MONTH.

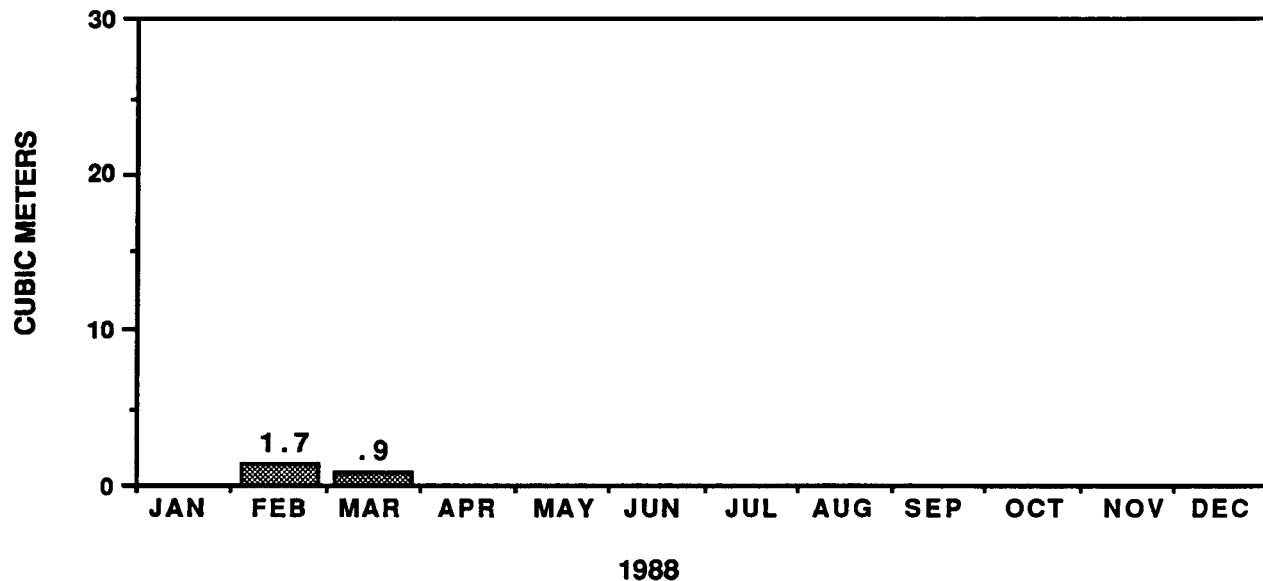
ASSESSMENT

THERE ARE NO ORGANIZATIONS THAT ARE CURRENTLY STAFFED LESS THAN 85% OF AUTHORIZED LEVELS. OVERALL FFTF/LMR SUPPORT INCREASED DUE TO INCREASES IN LMR TECHNICAL SUPPORT IN MARCH.

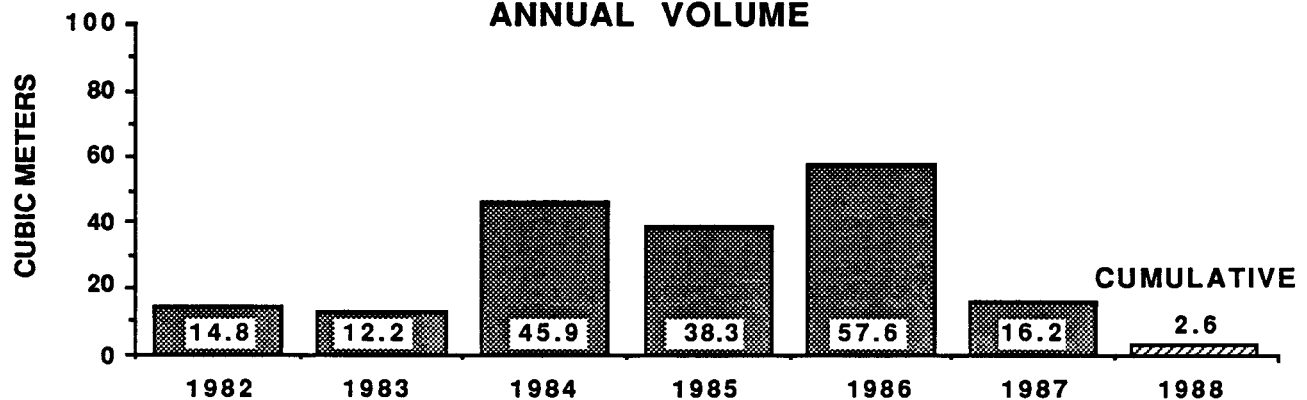
TBD			
PURPOSE			
ASSESSMENT			
MAR 1988			FIGURE 20

SOLID RADIOACTIVE WASTE

MONTHLY VOLUME



ANNUAL VOLUME



PURPOSE

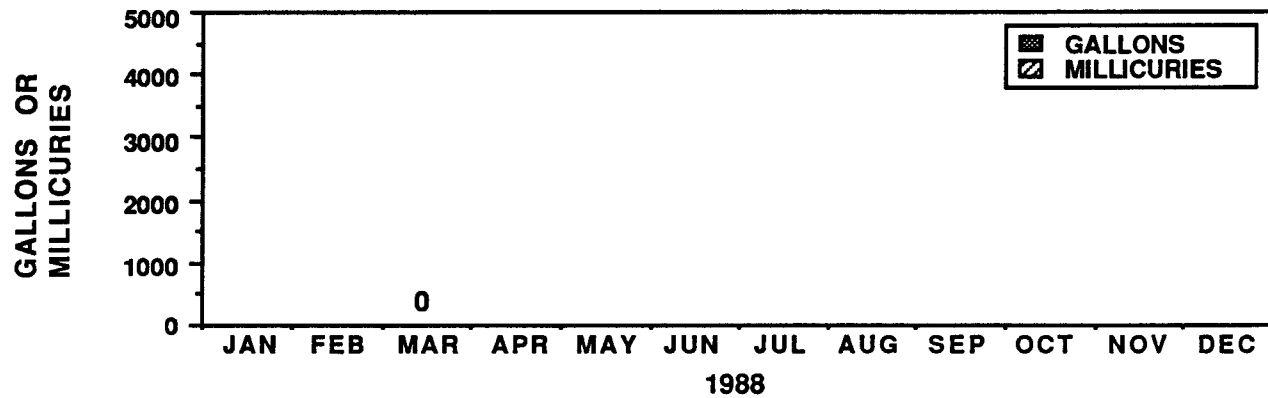
TO MONITOR THE VOLUME OF SOLID RADIOACTIVE WASTE THAT IS SHIPPED OFF THE FFTF SITE. SOLID RADIOACTIVE WASTE GENERATED FROM THE FFTF, IEM CELL, AND MASF ARE INCLUDED IN THE TOTALS.

ASSESSMENT

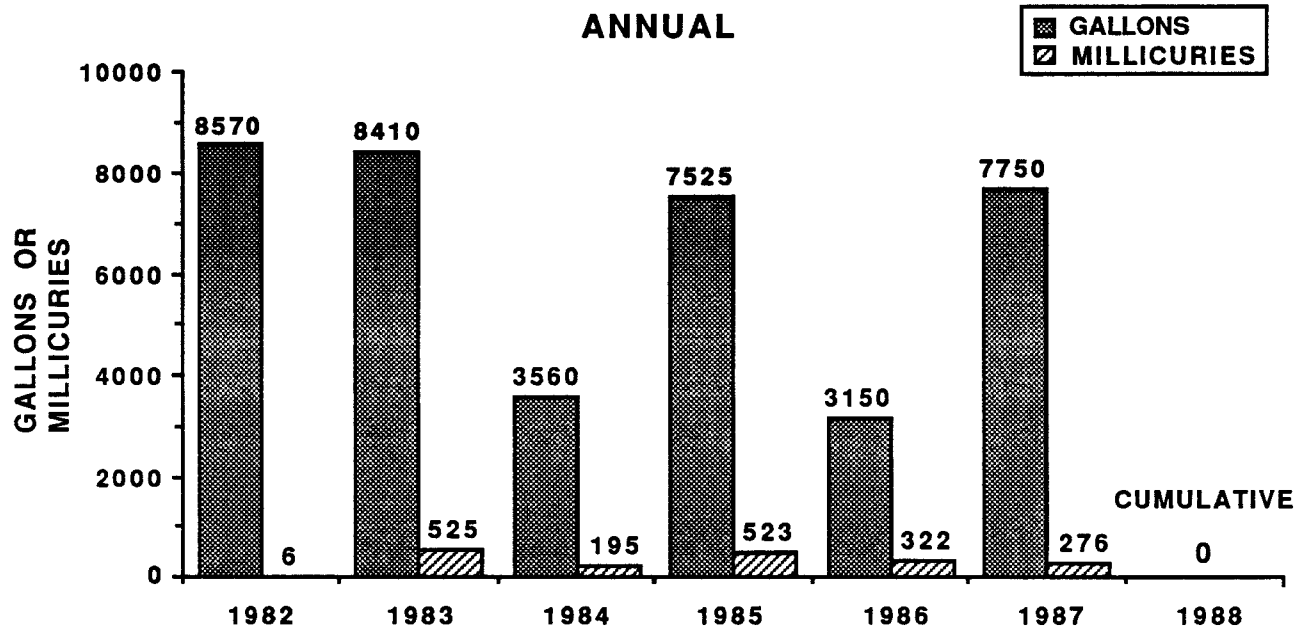
THERE WAS ONE SHIPMENT OF SOLID RADIOACTIVE WASTE DURING THE MONTH OF MARCH. THE SHIPMENT CONSISTED OF TWO DRUMS OF COMPACTED WASTE AND TWO CEMENT SHIELDED DRUMS.

LIQUID RADIOACTIVE WASTE

MONTHLY



ANNUAL



PURPOSE

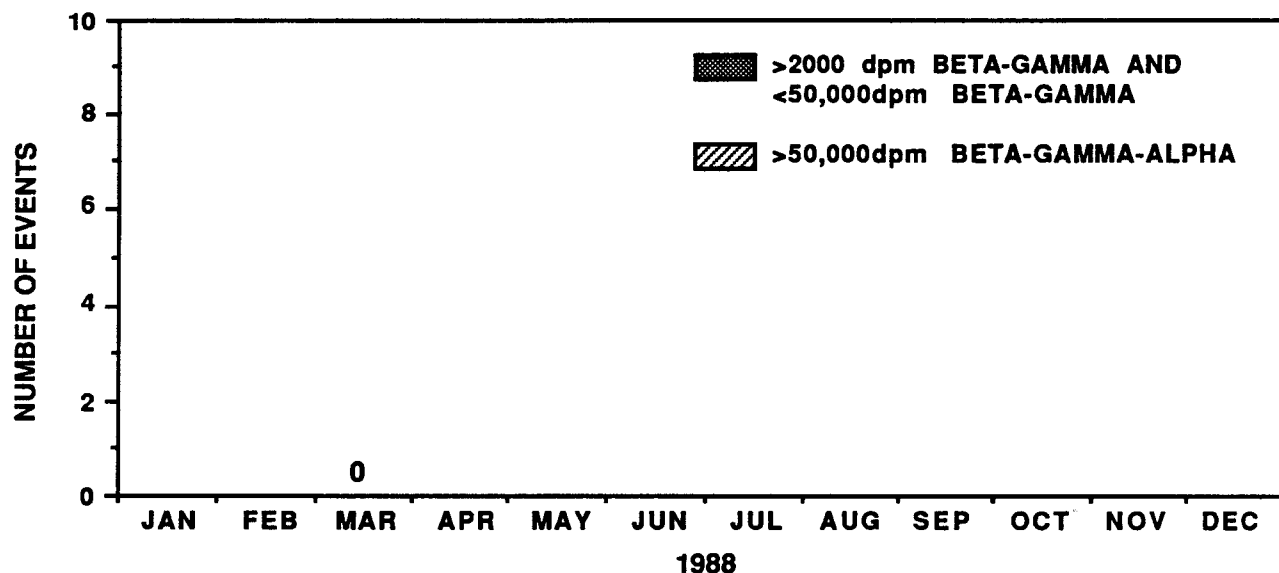
TO MONITOR THE VOLUME OF LIQUID RADIOACTIVE WASTE SHIPPED FROM STORAGE TANK T-103 TO THE RAILROAD TANK CAR FOR SHIPMENT OFF THE FFTF SITE.

ASSESSMENT

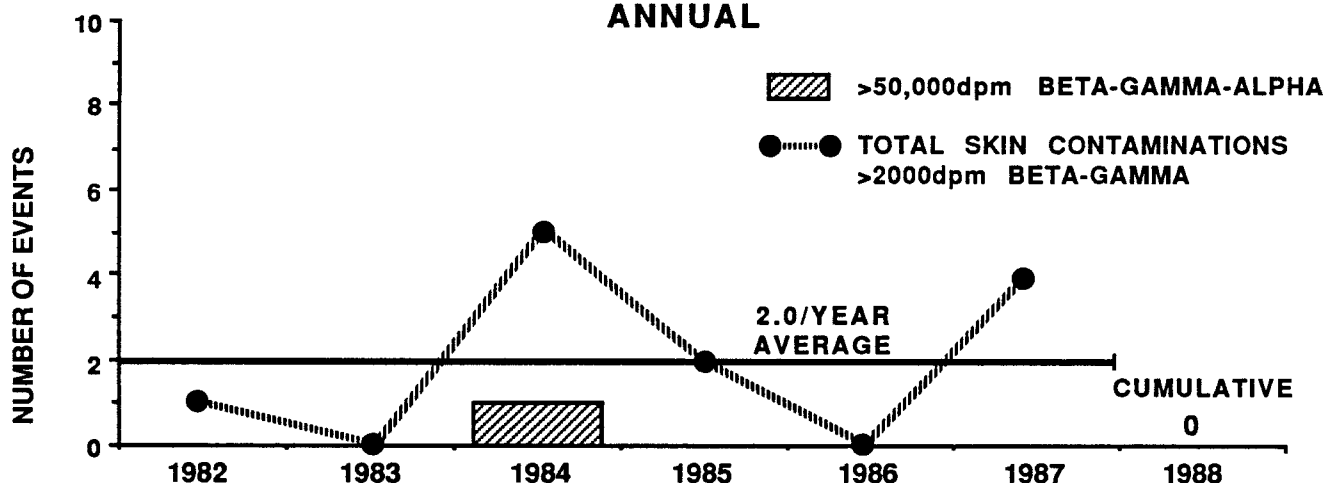
THERE WERE NO SHIPMENTS OF LIQUID RADIOACTIVE WASTE DURING THE MONTH OF MARCH.

SKIN CONTAMINATIONS

MONTHLY



ANNUAL



PURPOSE

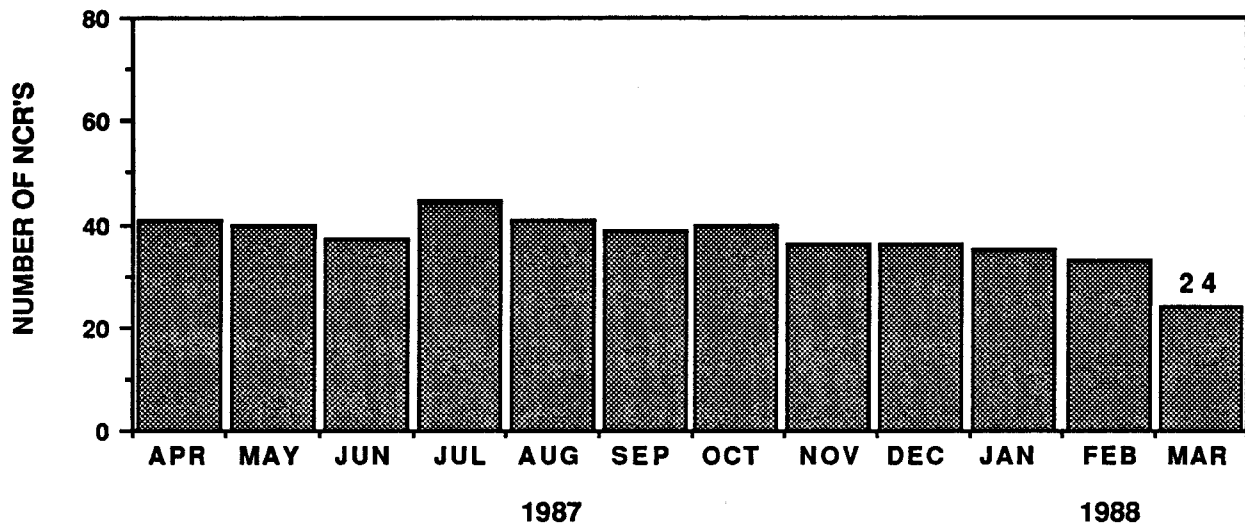
TO MONITOR THE NUMBER OF RECORDABLE AND SIGNIFICANT (REPORTABLE) SKIN CONTAMINATION EVENTS. A RECORDABLE SKIN CONTAMINATION EVENT IS ANY EVENT WITH DETECTABLE CONTAMINATION LEVELS ABOVE 2000 dpm/ PROBE AREA BETA-GAMMA AND/OR 500 dpm/PROBE AREA ALPHA (NOT TO INCLUDE RADON/THORON ISOTOPES). A SIGNIFICANT (REPORTABLE) SKIN CONTAMINATION EVENT IS ANY EVENT WITH DETECTABLE CONTAMINATION LEVELS ABOVE 50,000 dpm/PROBE AREA BETA-GAMMA-ALPHA.

ASSESSMENT

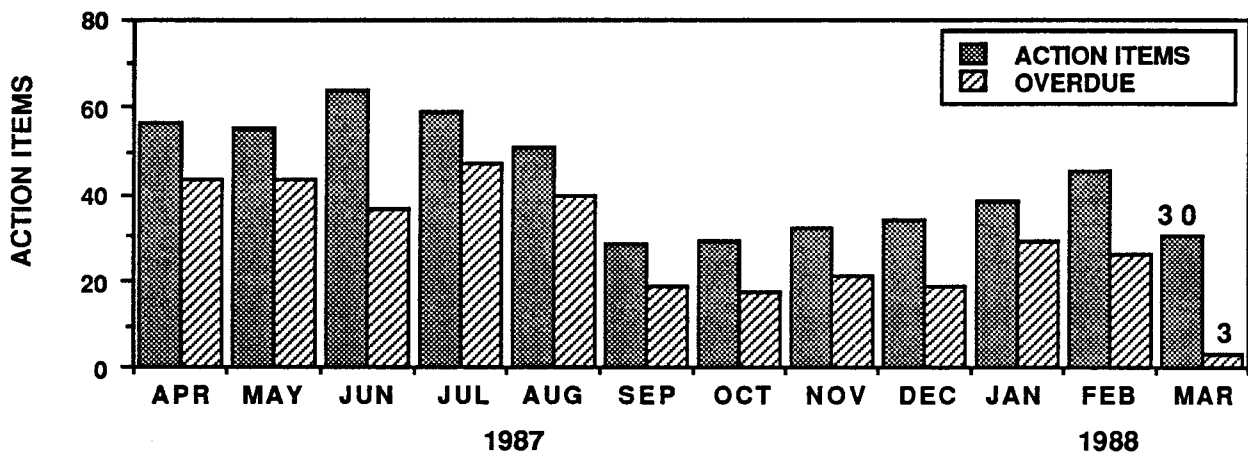
THERE WERE NO SKIN CONTAMINATION EVENTS IN THE 400 AREA DURING THE MONTH OF MARCH.

SAFETY/QUALITY COMMITMENTS

NON CONFORMANCE REPORTS



ACTION ITEMS



PURPOSE

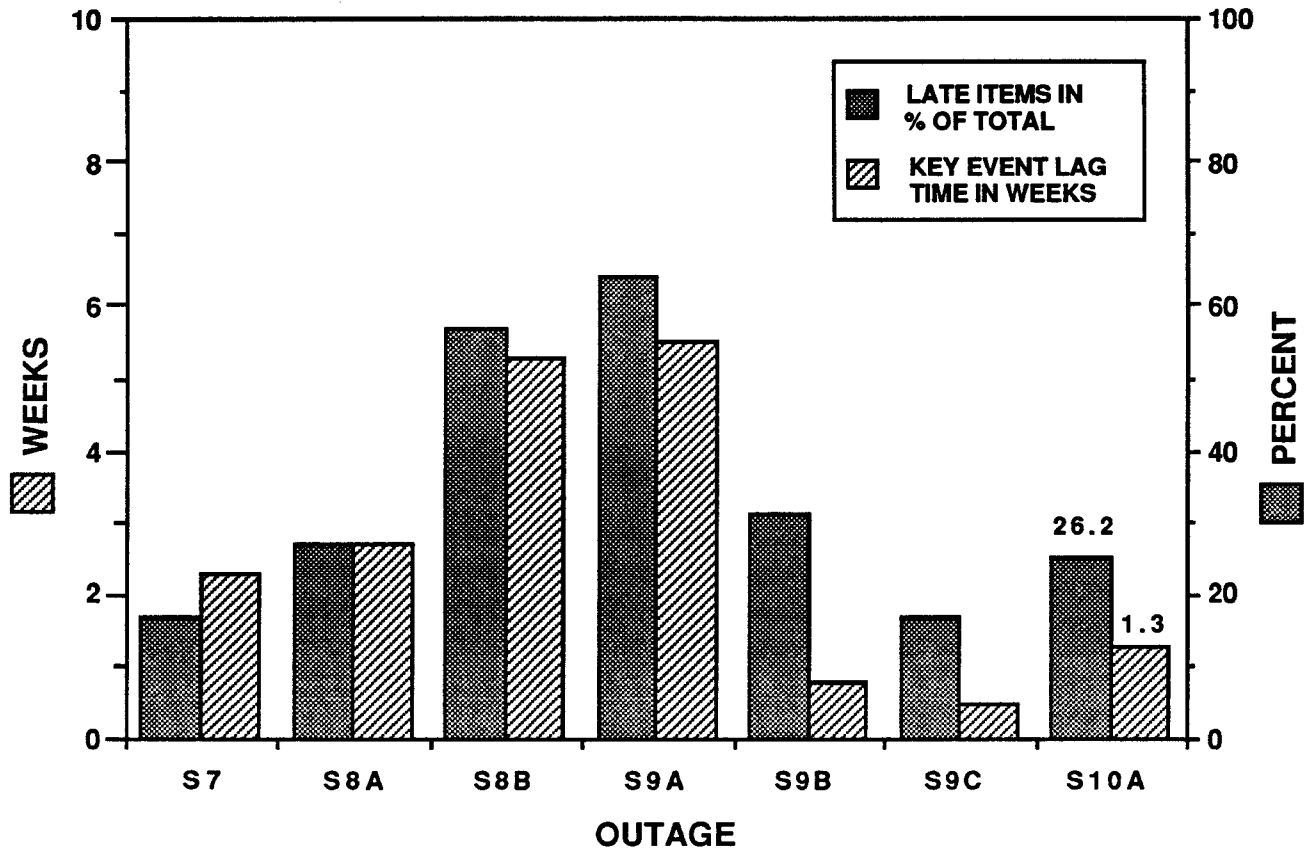
TO MONITOR THE NUMBER OF NONCONFORMANCE REPORTS (NCR) AND ACTION ITEMS RESULTING FROM REPORTABLE EVENTS, CRITIQUES, AND UOR'S. THE NUMBER OF OVERDUE ACTION ITEMS IS ALSO MONITORED TO MEASURE RESPONSIVENESS TO COMPLETING IDENTIFIED ACTION ITEMS.

ASSESSMENT

BOTH INDICATORS HAVE RESPONDED POSITIVELY IN MARCH.

THE TOTAL NUMBER OF OPEN NCR'S IS 24; DOWN FROM 33 IN FEBRUARY. THE NUMBER OF ACTION ITEMS ALONG WITH OVERDUE ITEMS HAS DROPPED SUBSTANTIALLY.

OUTAGE PLANNING PERFORMANCE



PURPOSE

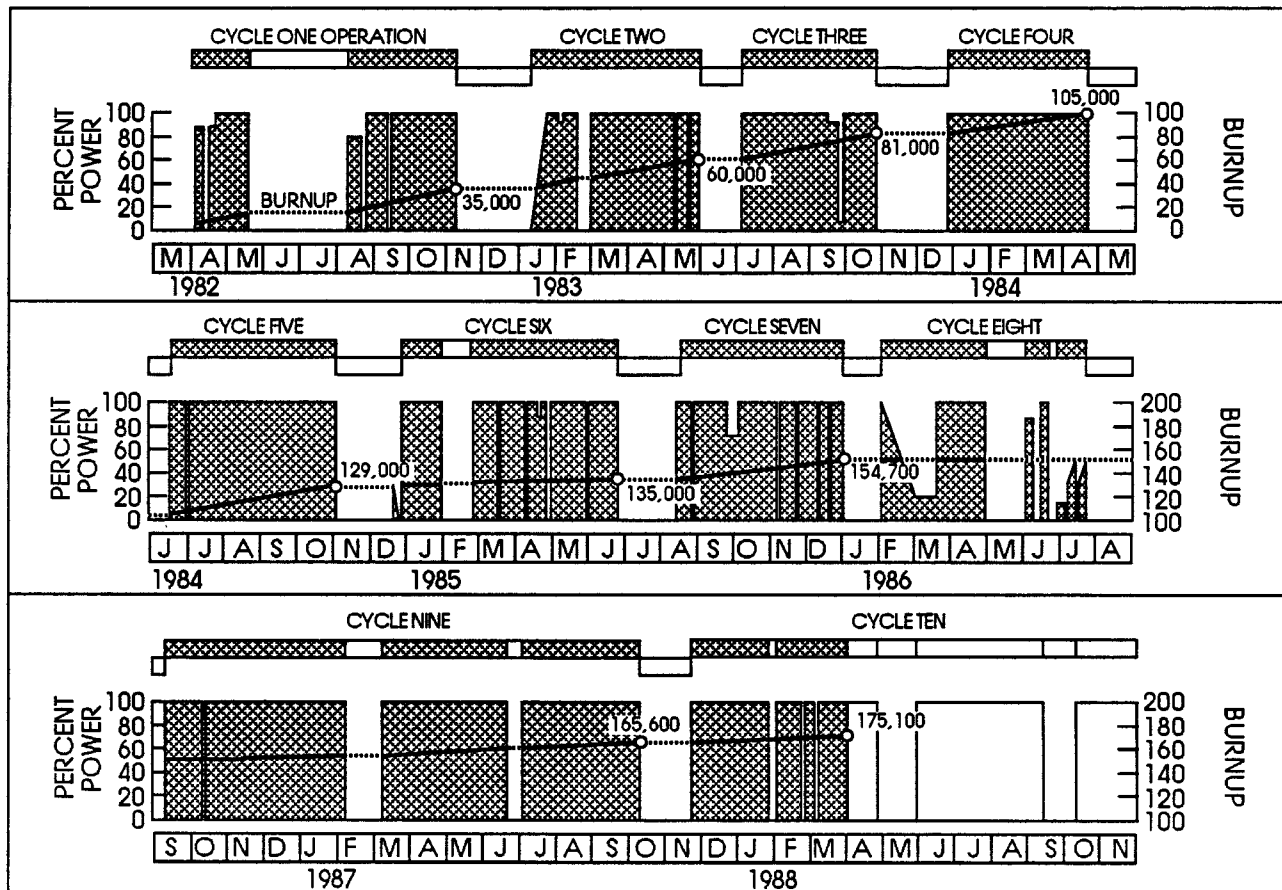
TO MONITOR THE PLANT STAFF'S ABILITY TO MEET OUTAGE PLANNING ACTION ITEM DUE DATES. BOTH PERCENTAGE OF ITEMS THAT ARE LATE AND KEY EVENT LAG TIME ARE PLOTTED. THESE PARAMETERS HAVE A DIRECT IMPACT ON MINIMIZING THE LENGTH OF PLANNED OUTAGES.

ASSESSMENT

PLANNING FOR THE S10A OUTAGE WAS IMPACTED BY S9C OUTAGE PLANNING, CESIUM TRAP INSTALLATION DURING P9C AND UNCERTAINTIES IN MAJOR ELECTRICAL OUTAGE PLANNING DUE TO WORK ON G-3.

FFTF OPERATING HISTOGRAM

OPERATING HISTOGRAM



OPERATING STATISTICS

	CYCLE 1	CYCLE 2	CYCLE 3	CYCLE 4	CYCLE 5	CYCLE 6	CYCLE 7	CYCLE 8	CYCLE 9	CYCLE 10 (3/31/88)
FFPD FOR CYCLE:	101.5	100.5	101.5	109.5	122.7	134.0	122.8	63.0	341.8	115.8
TOTAL PLANT FFPD AT END OF CYCLE:	134.3	234.8	336.3	445.8	568.5	702.5	825.3	888.3	1230.1	1345.9
CYCLE CAPACITY FACTOR (%):	50.3	83.1	93.5	99.5	93.5	74.9	90.3	38.9	86.6	86.3
AVAILABILITY FACTOR (%):	53.0	90.6	99.0	100.0	94.6	78.5	94.6	57.9	89.6	92.0
NUMBER OF EXPERIMENTS:	61	64	57	51	51	41	31	19	44	40
MAXIMUM FUEL BURNUP AT END OF CYCLE (MWd/MT):	35,000	60,000	81,000	105,000	129,000	135,000	154,700	154,700	165,600	175,100

ANNUAL OPERATIONAL PERFORMANCE

	1982 *	1983	1984	1985	1986	1987
CAPACITY FACTOR (%):	40.5	56.9	66.4	71.0	46.2	76.5
AVAILABILITY FACTOR (%):	42.8	61.1	67.6	73.0	56.8	78.7
OPERATIONAL EFFICIENCY FACTOR (%):	63.5	97.6	92.6	98.0	98.1	100.0

* Reporting began at start of Cycle 1 on April 16, 1982

DISTRIBUTION

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