Crystal River Unit 3 Monthly Trend Report

October 1996

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SUMMARY

The CR-3 Monthly Trend Report for October is attached. This summary contains comments on various charts, such as sudden changes, adverse trends, positive comments, and additions or deletions. If you have any comments or suggestions, please contact Rodney Thompson at extension 3396.

Page 1 (Human Performance Success Index) - The index rose due to the decrease in the number of "occurrences" (Problem Reports & Precursor Cards) and an increase in the number of opportunities (hours worked) during October. NSAT will be evaluating this indicator and revising it as necessary to reflect the new corrective action process now in place. The past indicators showing causes and condition codes have been dropped. New indicators will be considered as sufficient coding data is collected under the new process.

Page 2 (Precursors Awaiting Resolution) - The backlog showed a significant decrease in October due to a strong focused effort by all departments to close precursor cards, especially Engineering. A list of open Precursor Cards was mailed with a cover memo to all affected Directors, Managers, and Supervisors on 9/6/96 in order to raise the level of awareness towards this trend. This appears to have been effective, but a strong effort must still be made to address the older Precursor Cards.

Page 3 (Component Not in Expected Position) - There were ZERO instances of components found in an unexpected position during the month of October. This improvement is directly attributed to the recent implementation of concurrent verification for all manipulations. Other contributing factors are procedure writers watching for conflicts in valve positions between procedures, and the increased accountability for use or non-use of STAR by individuals.

Page 5 (Problem Report Corrective Action Steps) - This indicator has been revised to track the number of steps overdue at the end of the month as well as the number of steps extended during the month. The goal for overdue steps is zero. The numbers have increased significantly. A strong effort must be made to address the open steps on past Problem Reports as we transition to the new corrective action process.

Page 7 (NPTS Open REA's) - This indicator was added by Engineering to reflect the trend of REA's for which NPTS is responsible. This was not captured in the past REA indicator which only reflected those REA's residing with the design engineering group.

Page 17 (Repeat Maintenance) - A new data point trended on this indicator shows the percentage of work requests that planners have identified as "degraded" that are also identified as Repeat Maintenance. This indicator is not the same as repetitive failures under the Maintenance Rule. This indicator is more broad based, looking at component level rework. Repetitive failures under the Maintenance Rule are only those failures that result in a loss of system or train level function. NSAT is working with Engineering to develop performance indicators related to the Maintenance Rule.

Maintenance Shop Schedule Performance Indicator - This indicator has been discontinued until startup. It is currently being redefined due to changes in the preparation and implementation of the work process at CR-3. New indicators are being developed and are expected to be in the 1997 trend reports.

. S. Baumstark





NSAT will be looking closely at this indicator to determine how to best trend "Human Performance" in 1997, now that the new procedure (CP-111) has been issued and the new corrective action process has been implemented. The old chart for "human performance condition codes" has been dropped. As the new system of coding progresses and sufficient data is received, new trending charts will be considered.

Responsible: Data Collected By: R. L. Thompson, Senior Nuclear QA Engineer Gayle Widell, Safety Assessment Specialist







This indicator tracks the number of open items that require a revision to Operating Procedures (OP's), Annunciator Response Procedures, (AR's), Abnormal Procedures (AP's), and Emergency Operating Procedures (EOP's).

Performance Measurement / Goal

The goal is a continuing downward trend. The desired "ma tenance" level of open items is to be determined as the 2 year action plan begins to reach conclusion.

Analysis / Summary

The number of open comments requesting a procedure revision is high at this time. Many have been addressed and are awaiting review and approval from the Plant Review Committee (PRC). EOP's will drop in November, as PRC is scheduled at the end of the month to review many completed changes. A plan is being developed to eliminate AP comments in 1997.

Open Items

	OP's	AR's	AP's	EOP's
June	644	74	167	225
July	669	78	198	238
Aug.	748	71	200	241
Sep.	791	77	200	241
Oct.	767	78	200	241
Nov.				
Dec.				

Efforts are currently underway to reduce the backlog of comments for OP's and AR's. The numbers had been rising due to focused efforts to extract comments from other areas (such as desk folders, etc.), and to place all comments into NUPOST for ease of tracking and trending. The drop in numbers this month can be attributed to the completion of that effort and the approval of procedure revisions.

Responsible: Data Collected By: R. W. Davis, Assistant Plant Director Operations & Chemistry R. L. Thompson, Senior Nuclear Quality Assurance Engineer



Performance Measurement / Goal

The first goal is to maintain the percent of steps extended to < 5% of the total number of open corrective action steps. The second goal is to have zero steps overdue at the end of the month. The table below shows the percentages of the number of extensions and overdue steps.

Analysis / Summary

This indicator has been revised to show extensions during the month and the number of steps overdue at the end of the month, broken down by department. The number of steps overdue is a dynamic number that changes from day to day. The data will be collected about one week into the following month for consistency.

- There were 60 out of 887 steps (6.8%) extended in October.

- There were 58 out of 887 steps (6.5%) overdue at the end of the month.

- Of 887 open steps, Engineering/Projects/NPTS are responsible for 500 steps (56%) and Operations/Maintenance/Main

PR-96-0337, Untimely Resolution of Problem Reports, was issued to address the concern of numerous overdue steps.

PROBLEM REPORT CORRECTIVE ACTION STEP STATUS - NOVEMBER 12th

DEPARTMENT	Steps	Extensions	% Extensions	Overdue	% Overdue
Materials & Controls	7	0	0.0%	0	0.0%
Nuclear Operations	121	9	7.4%	2	1.7%
Nuclear Operations Training	21	0	0.0%	0	0.0%
Quality Programs	27	2	0.0%	2	7.4%
Nuclear Plant Tech Support	214	12	5.6%	18	8.4%
Nuclear Engineering Programs	37	4	10.8%	0	0.0%
Nuclear Operations Engineering	249	16	6.4%	29	11.6%
Site Support	70	5	7.1%	5	7.1%
Maintenance	84	5	6.0%	1	1.2%
Work Controls/Outages	57	7	12.3%	1	1.8%
TOTAL	887	60	6.8%	58	6.5%

Responsible:	D. T. Wilder, Manager Nuclear Safety Assessment Team	Page 5
Data Collected By:	R. L. Thompson, Senior Nuclear QA Engineer	



The 1996 target is an open backlog of < 200 REA's.

Analysis / S	ummary
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The backlog is large at this time due to ongoing engineering activities that require significant resources. The trend continues to move toward the goal. Additional management oversight will be required to continue this downward trend.

1	1&C	ELEC	MECH	STRUCT	TOTAL
Jan	177	193	95	90	559
Feb	168	187	89	84	528
Mar	157	181	92	96	526
Apr	148	175	102	93	518
May	143	174	76	88	481
Jun	124	159	77	72	432
Jul	126	172	57	76	431
Aug	125	171	61	78	435
Sep	121	169	57	79	426
Oct	101	165	58	68	392
Nov					
Dec					

Responsible: Data Collected By: F. X. Sullivan, Manager Nuclear Engineering Design A. Blanchard, Admin. Clerk



This indicator provides data that is intended to reflect the backlog of Requests for Engineering Assistance (REA's) in Nuclear Plant Technical Support (NPTS) in a particular month. This indicator provides a measurement of the effectiveness of NPTS to respond to technical questions, requests for information/assistance, and suggestions/requests for plant modifications.

Performance Measurement / Goal

The 1996 target is an open backlog of < 60 REA's.

Analysis / Summary

The NPTS backlog reduction effort continues, with a goal of reducing the total number of REA's assigned to NPTS to < 60 by the end of 1996. This also includes ZERO open REA's initiated prior to 1995.

	1&C	Elect	Mech	RR	Total
Jan	48	15	52	0	115
Feb	49	16	55	0	120
Mar	50	14	54	0	118
Apr	48	15	54	0	117
May	49	14	48	0	111
Jun	48	13	42	0	103
Jul	39	17	43	4	103
Aug	33	10	40	6	89
Sep	38	10	43	8	99
Oct	36	9	37	13	95
Nov					
Dec					

Responsible:	J. H. Terry, Manager Nuclear Plant Technical Support	Page:
Data Collected By:	W. L. Peruche, Department Support Specialist	





- Inspection Report 96-13 - This was a Special NRC Inspection to review the adequacy of the licensee investigation of the potential tampering event from 09/19/96. Within the scope of the inspection, there were no violations identified.



Responsible: Data Collected By: G. H. Halnon, Manager Nuclear Plant Operations R. L. McLaughlin, Nuclear Regulatory Specialist





Responsible:	B. Gutherman, Manager Nuclear Licensing	Page: 10
Data Collected By:	T. W. Catchpole, Senior Nuclear Licensing Engineer	







Performance Measurement / Target

The target is to eliminate leakers that can be repaired on-line.

Data Collected By:

Analysis / Summary

Responsible:	J. W. Campbell, Assistant Director Maint. & Radiation Protection	Page: 12
22 remaining to be scheduled at a later	date.	
6 on the list to be assigned to the mach	nine shop for repairs	
19 on the list of valves to be assigned to	NNI for repairs.	
8 on the current schedule for repair.		
12 complete and awaiting Post Maintena	ance Testing (PMT) after startup.	
preparing to repair as many as possible	during the current plant shutdown. As of mid-November, the status of the 65 leakers in the Aux. Buildin	ig is:
The overall number of identified contam	inated leakers throughout the plant currently stands at 83. Of these, there are 65 located in the Aux. Bu	ilding. Work Controls is
The support sumber of identified contemp	instead load are throughout the plant surrantly stands at 02. Of those there are 65 loaded in the Aux Ru	ulding Mark Controls in

S. G. Rushton, Nuclear Planning Coordinator



This indicator will be carried as part of the quarterly performance indicator report through the end of the year. The responsible organization will determine what the goals are for 1997 and what parameters to trend.

Responsible: Data Collected By: J. W. Campbell, Assistant Director Maint. & Radiation Protection G. H. Cadwell, Supervisor Nuclear Facility Services





Data Collected By:

J. W. Campbell, Assistant Plant Director Maint, & Radiation Protection R. L. Thompson, Senior Nuclear QA Engineer

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Definition of the Performance Indicator

Work requests identified in MACS as "Corrective Maintenance" (CM) items are those equipment that are out-of-service (Broken). This is a count of open work requests, designated as CM, reported on the 12th of the month.

This is a "subset" of those work requests identified in MACS as "degraded".

Performance Measurement / Target

The target for this indicator will be a cycle 11 target equal to the number of open work requests identified as "corrective maintenance" at the beginning of 10R. This was 37 for non-outage (includes those system outage WR's that can be done on-line) and 22 for outage (requires the plant to be off-line).

Analysis / Summary

It is in the planning stage of the work controls process that work classes, such as CM, are identified. Reductions in September and October are reflective of the aggressive scheduling of maintenance, especially on control board deficiencies. The data in the upper right corner of this indicator now shows the number of activities each month, both outage and non-outage. There are also two work requests that require a "system outage". Continued emphasis will be placed on the elimination of outage leakers and control board deficiencies.

Responsible: Data Collected By: J. W. Campbell, Assistant Plant Director Maint. & Radiation Protection R. L. Thompson, Senior Nuclear QA Engineer Page: 16



Definition of the Performance Indicator

This data is the number of work requests that fall under the classification "Repeat Maintenance", and is compiled by evaluating the work history downloaded from MACS. The chart also shows the percentage of work requests that planners have identified as "degraded" in MACS that are repeat maintenance (rework on a specific component/part which occurs within a 24 month period of time).

Performance Measurement / Goal

This is a new trend. It is being tracked in order to support shop efficiency goals, and to aide System Engineers in the evaluation of repetitive and/or functional failure concerns relating to the Maintenance Rule.

Analysis / Summary

The number of work requests identified as repeat maintenance (16) are those work evolutions which are similar in scope, that needed rework due to a failure to correct the problem initially. The 2.1% is the percentage of work requests identified by the planner as repeat maintenance compared to the total number of work requests that the planner identified as degraded (767). Degraded equipment is "equipment that is in a condition or state which is less than the original specification", including out- of-service (broken) equipment (See page 15 of this report.).

Responsible: Data Collected By: J. W. Campbell, Assistant Plant Director Maint. & Radiation Protection R. L. Thompson, Senior Nuclear QA Engineer Page: 17





	July	Aug.	Sept.	Oct.
< 6 months	4	5	1	2
6 - 12 months	2	1	2	2
12 - 18 months	0	1	1	1
18 - 24 months	0	0	0	0
> 24 months	4	3	3	3
Total	10	10	7	8



Responsible: Data Collected By: K.F. Lancaster, Manager Nuclear Projects O. M. Layo, Projects Engineering Technician



including specific time frames for completing closures. This performance indicator reflects the number of modifications completed, returned to service, and waiting for final package review and resolution of open items.

Performance Measurement / Target

Complete the modification closure process within 180 days (six months) of the modification turnover or return to service. The goal is to have ZERO open packages greater than six months old.

Analysis / Summary

There are currently 66 modifications complete and in the closure process. Of those, four (4) are beyond the targeted duration of 180 days. They are waiting on procedure revisions.

	July	Aug.	Sept.	Oct
< 6 months	93	90	69	62
6 - 12 months	4	5	7	4
12 - 18 months	0	0	0	D
18 - 24 months	0	0	0	0
> 24 months	1	1	1	0
Total	98	96	77	66

Responsible: Data Collected By: K. F. Lancaster, Manager Nuclear Projects O. M. Lavo, Projects Engineering Technician