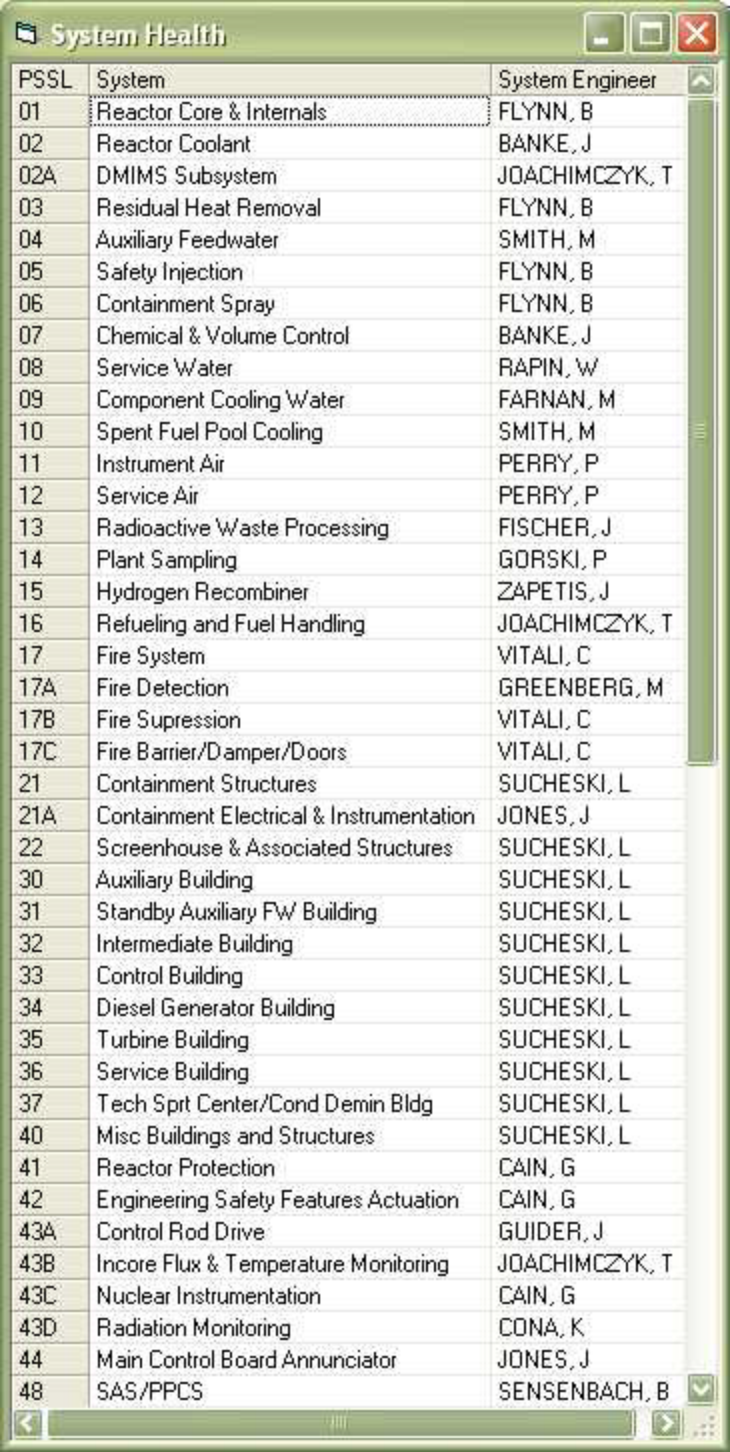
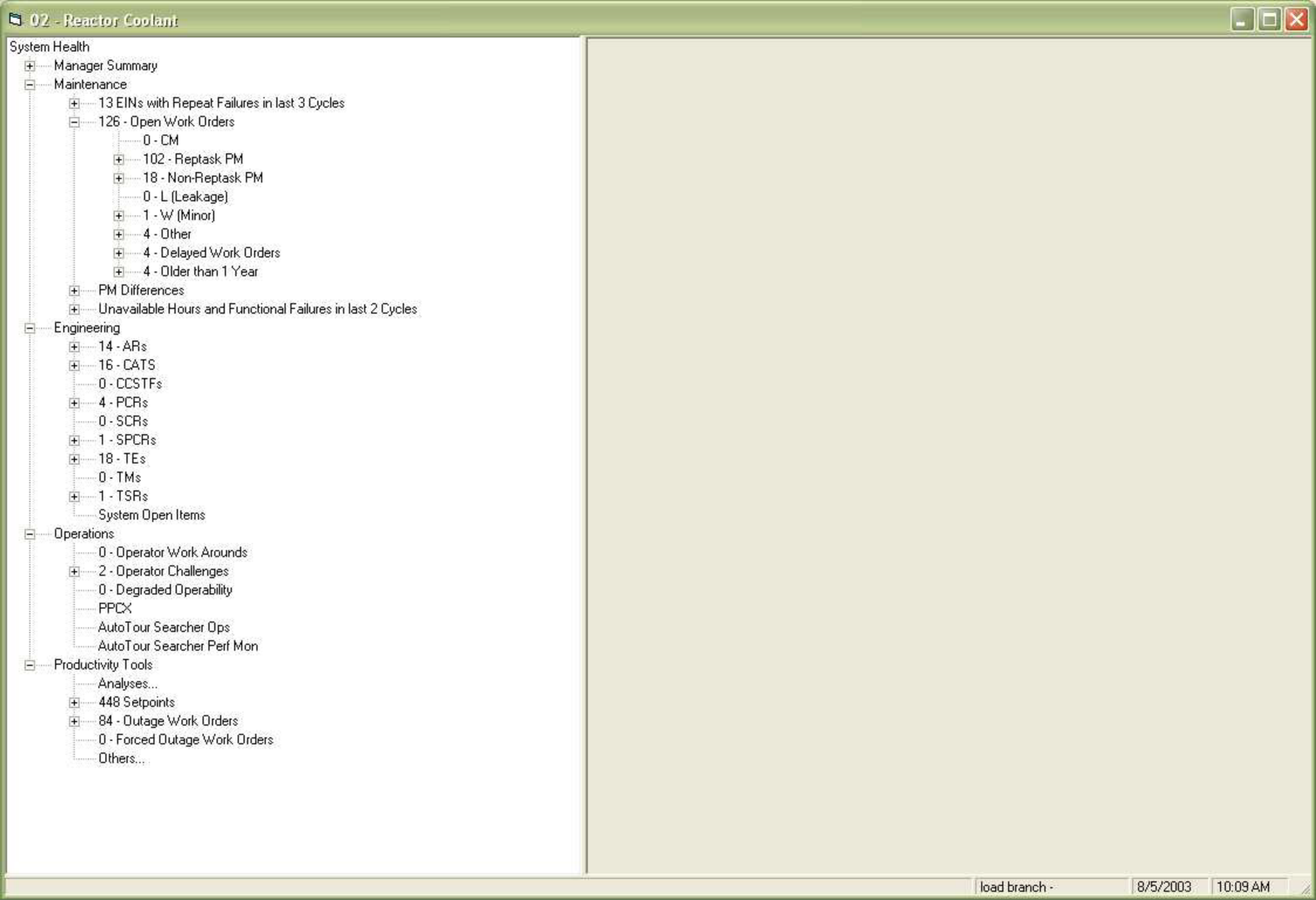


PSSL	System	System Engineer
01	Reactor Core & Internals	FLYNN, B
02	Reactor Coolant	BANKE, J
02A	DMIMS Subsystem	JOACHIMCZYK, T
03	Residual Heat Removal	FLYNN, B
04	Auxiliary Feedwater	SMITH, M
05	Safety Injection	FLYNN, B
06	Containment Spray	FLYNN, B
07	Chemical & Volume Control	BANKE, J
08	Service Water	RAPIN, W
09	Component Cooling Water	FARNAN, M
10	Spent Fuel Pool Cooling	SMITH, M
11	Instrument Air	PERRY, P
12	Service Air	PERRY, P
13	Radioactive Waste Processing	FISCHER, J
14	Plant Sampling	GORSKI, P
15	Hydrogen Recombiner	ZAPETIS, J
16	Refueling and Fuel Handling	JOACHIMCZYK, T
17	Fire System	VITALI, C
17A	Fire Detection	GREENBERG, M
17B	Fire Supression	VITALI, C
17C	Fire Barrier/Damper/Doors	VITALI, C
21	Containment Structures	SUCHESKI, L
21A	Containment Electrical & Instrumentation	JONES, J
22	Screenhouse & Associated Structures	SUCHESKI, L
30	Auxiliary Building	SUCHESKI, L
31	Standby Auxiliary FW Building	SUCHESKI, L
32	Intermediate Building	SUCHESKI, L
33	Control Building	SUCHESKI, L
34	Diesel Generator Building	SUCHESKI, L
35	Turbine Building	SUCHESKI, L
36	Service Building	SUCHESKI, L
37	Tech Sprt Center/Cond Demin Bldg	SUCHESKI, L
40	Misc Buildings and Structures	SUCHESKI, L
41	Reactor Protection	CAIN, G
42	Engineering Safety Features Actuation	CAIN, G
43A	Control Rod Drive	GUIDER, J
43B	Incore Flux & Temperature Monitoring	JOACHIMCZYK, T
43C	Nuclear Instrumentation	CAIN, G
43D	Radiation Monitoring	CONA, K
44	Main Control Board Annunciator	JONES, J
48	SAS/PPCS	SENSENBACH, B


02 - Reactor Coolant
System Health
Manager Summary
Maintenance
13 EINs with Repeat Failures in last 3 Cycles
126 - Open Work Orders
0 - CM
102 - Reptask PM
18 - Non-Reptask PM
0 - L (Leakage)
1 - W (Minor)
4 - Other
4 - Delayed Work Orders
4 - Older than 1 Year
PM Differences
Unavailable Hours and Functional Failures in last 2 Cycles
Engineering
14 - ARs
16 - CATS
0 - CCSTFs
4 - PCRs
0 - SCRs
1 - SPCRs
18 - TEs
0 - TMs
1 - TSRs
System Open Items
Operations
0 - Operator Work Arounds
2 - Operator Challenges
0 - Degraded Operability
PPCX
AutoTour Searcher Ops
AutoTour Searcher Perf Mon
Productivity Tools
Analyses...
448 Setpoints
84 - Outage Work Orders
0 - Forced Outage Work Orders
Others...
load branch -
8/5/2003
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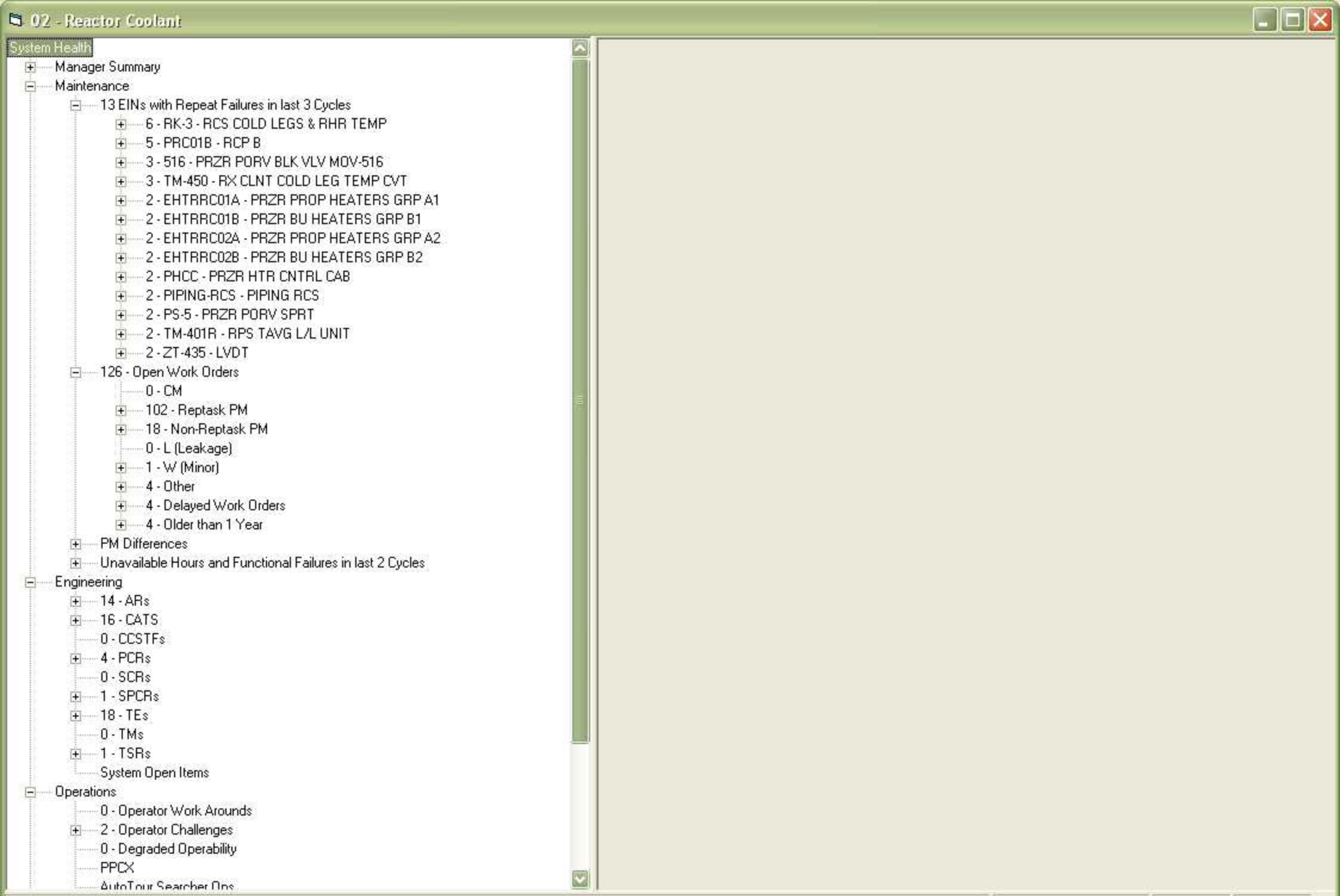
02 - Reactor Coolant
System Health
Manager Summary
Maintenance
13 EINs with Repeat Failures in last 3 Cycles
6 - RK-3 - RCS COLD LEGS & RHR TEMP
5 - PRC01B - RCP B
3 - 516 - PRZR PORV BLK VLV MOV-516
3 - TM-450 - RX CLNT COLD LEG TEMP CVT
2 - EHTRRC01A - PRZR PROP HEATERS GRP A1
2 - EHTRRC01B - PRZR BU HEATERS GRP B1
2 - EHTRRC02A - PRZR PROP HEATERS GRP A2
2 - EHTRRC02B - PRZR BU HEATERS GRP B2
2 - PHCC - PRZR HTR CNTRL CAB
2 - PIPING-RCS - PIPING RCS
2 - PS-5 - PRZR PORV SPRT
2 - TM-401R - RPS TAVG L/L UNIT
2 - ZT-435 - LVDT
126 - Open Work Orders
0 - CM
102 - Reptask PM
18 - Non-Reptask PM
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1 - SPCRs
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0 - TMs
1 - TSRs
System Open Items
Operations
0 - Operator Work Arounds
2 - Operator Challenges
0 - Degraded Operability
PPCX
AutoTour Searcher Ops
More than 1 Failure in 3 Cycles
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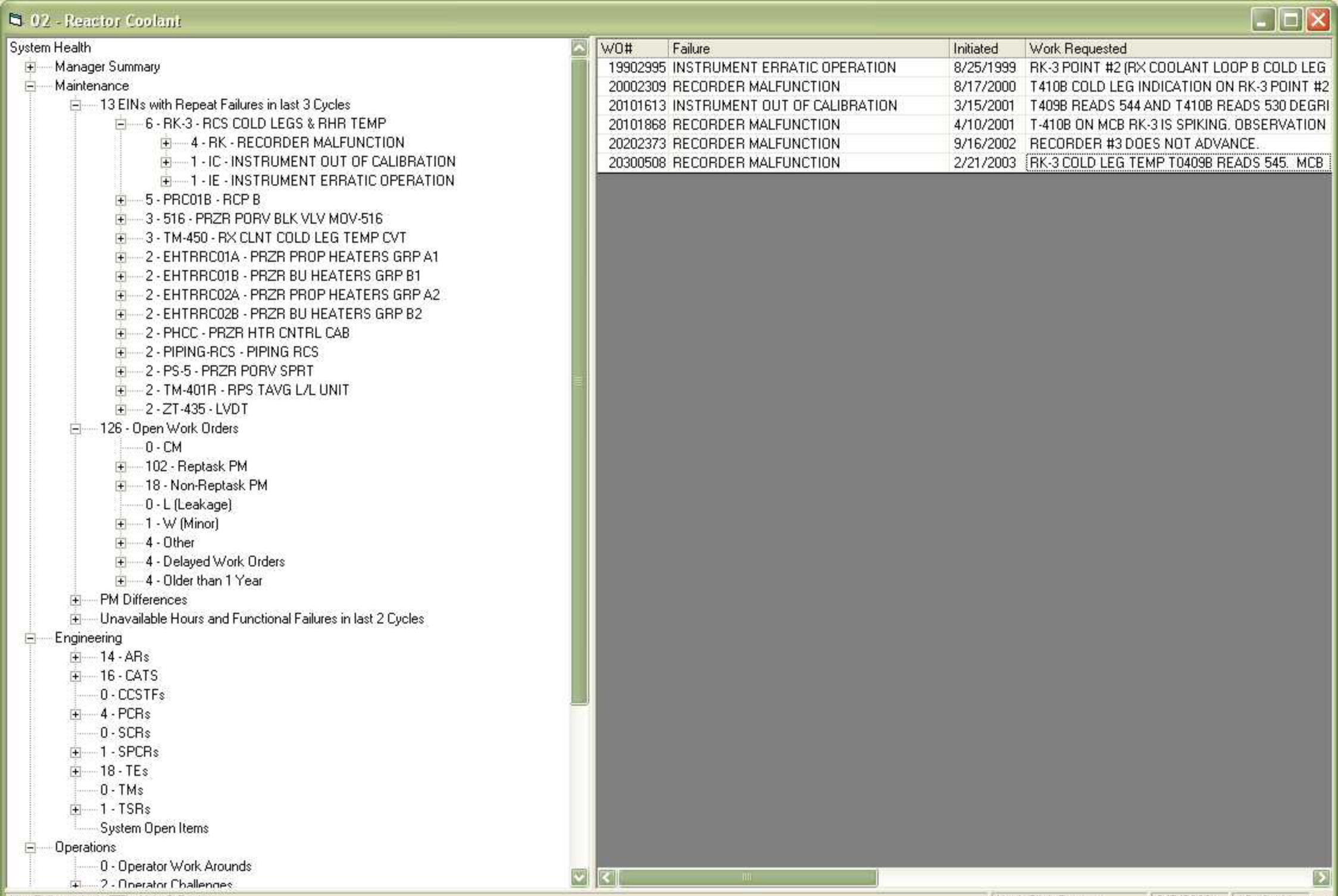
02 - Reactor Coolant
System Health
Manager Summary
Maintenance
13 EINs with Repeat Failures in last 3 Cycles
6 - RK-3 - RCS COLD LEGS & RHR TEMP
4 - RK - RECORDER MALFUNCTION
1 - IC - INSTRUMENT OUT OF CALIBRATION
1 - IE - INSTRUMENT ERRATIC OPERATION
5 - PRC01B - RCP B
3 - 516 - PRZR PORV BLK VLV MOV-516
3 - TM-450 - RX CLNT COLD LEG TEMP CVT
2 - EHTRRC01A - PRZR PROP HEATERS GRP A1
2 - EHTRRC01B - PRZR BU HEATERS GRP B1
2 - EHTRRC02A - PRZR PROP HEATERS GRP A2
2 - EHTRRC02B - PRZR BU HEATERS GRP B2
2 - PHCC - PRZR HTR CNTRL CAB
2 - PIPING-RCS - PIPING RCS
2 - PS-5 - PRZR PORV SPRT
2 - TM-401R - RPS TAVG L/L UNIT
2 - ZT-435 - LVDT
126 - Open Work Orders
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102 - Reptask PM
18 - Non-Reptask PM
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1 - SPCRs
18 - TEs
0 - TMs
1 - TSRs
System Open Items
Operations
0 - Operator Work Arounds
2 - Operator Challenges
WO# Failure Initiated Work Requested
19902995 INSTRUMENT ERRATIC OPERATION 8/25/1999 RK-3 POINT #2 (RX COOLANT LOOP B COLD LEG
20002309 RECORDER MALFUNCTION 8/17/2000 T410B COLD LEG INDICATION ON RK-3 POINT #2
20101613 INSTRUMENT OUT OF CALIBRATION 3/15/2001 T409B READS 544 AND T410B READS 530 DEGRI
20101868 RECORDER MALFUNCTION 4/10/2001 T-410B ON MCB RK-3 IS SPIKING. OBSERVATION
20202373 RECORDER MALFUNCTION 9/16/2002 RECORDER #3 DOES NOT ADVANCE.
20300508 RECORDER MALFUNCTION 2/21/2003 RK-3 COLD LEG TEMP T0409B READS 545. MCB
Not Failure Mode ZZ within 3 Cycles
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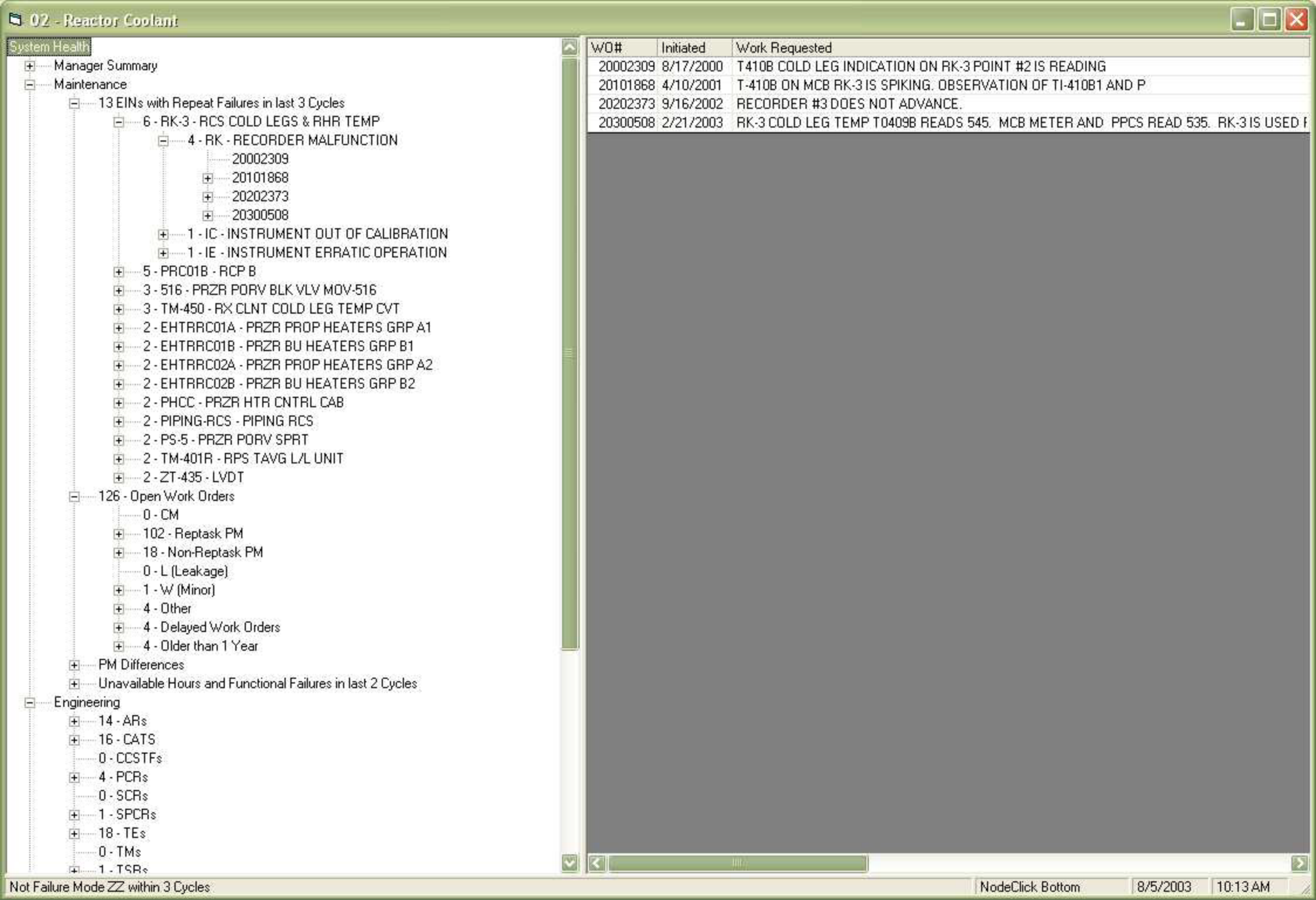
02 - Reactor Coolant
System Health
Manager Summary
Maintenance
13 EINs with Repeat Failures in last 3 Cycles
6 - RK-3 - RCS COLD LEGS & RHR TEMP
4 - RK - RECORDER MALFUNCTION
20002309
20101868
20202373
20300508
1 - IC - INSTRUMENT OUT OF CALIBRATION
1 - IE - INSTRUMENT ERRATIC OPERATION
5 - PRC01B - RCP B
3 - 516 - PRZR PORV BLK VLV MOV-516
3 - TM-450 - RX CLNT COLD LEG TEMP CVT
2 - EHTRRC01A - PRZR PROP HEATERS GRP A1
2 - EHTRRC01B - PRZR BU HEATERS GRP B1
2 - EHTRRC02A - PRZR PROP HEATERS GRP A2
2 - EHTRRC02B - PRZR BU HEATERS GRP B2
2 - PHCC - PRZR HTR CNTRL CAB
2 - PIPING-RCS - PIPING RCS
2 - PS-5 - PRZR PORV SPRT
2 - TM-401R - RPS TAVG L/L UNIT
2 - ZT-435 - LVDT
126 - Open Work Orders
0 - CM
102 - Reptask PM
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4 - Older than 1 Year
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14 - ARs
16 - CATS
0 - CCSTFs
4 - PCRs
0 - SCRs
1 - SPCRs
18 - TEs
0 - TMs
1 - TSRs
WO# Initiated Work Requested
20002309 8/17/2000 T410B COLD LEG INDICATION ON RK-3 POINT #2 IS READING
20101868 4/10/2001 T-410B ON MCB RK-3 IS SPIKING. OBSERVATION OF TI-410B1 AND P
20202373 9/16/2002 RECORDER #3 DOES NOT ADVANCE.
20300508 2/21/2003 RK-3 COLD LEG TEMP T0409B READS 545. MCB METER AND PPCS READ 535. RK-3 IS USED F
Not Failure Mode ZZ within 3 Cycles
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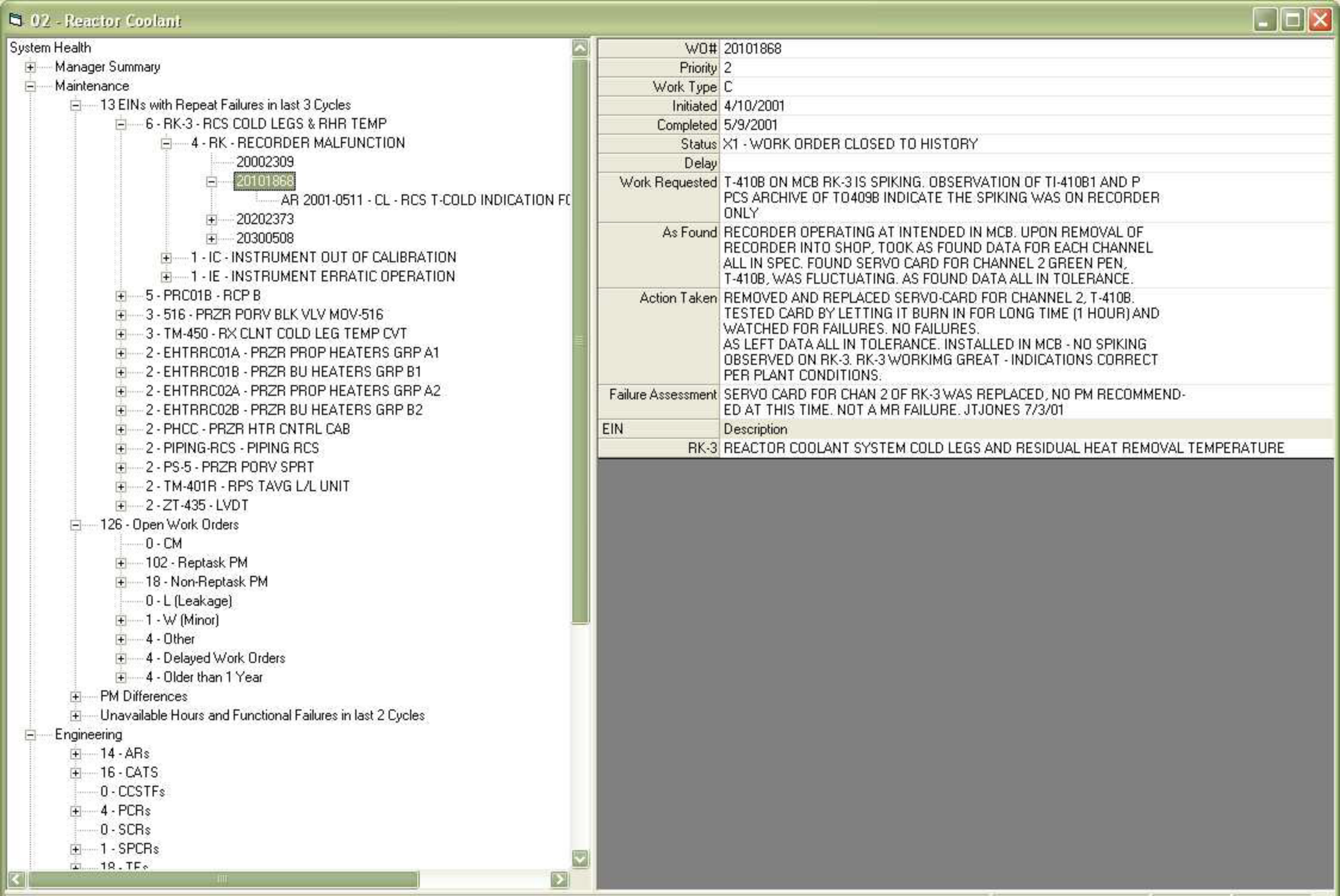
02 - Reactor Coolant
System Health
Manager Summary
Maintenance
13 EINs with Repeat Failures in last 3 Cycles
6 - RK-3 - RCS COLD LEGS & RHR TEMP
4 - RK - RECORDER MALFUNCTION
20002309
20101868
AR 2001-0511 - CL - RCS T-COLD INDICATION FC
20202373
20300508
1 - IC - INSTRUMENT OUT OF CALIBRATION
1 - IE - INSTRUMENT ERRATIC OPERATION
5 - PRC01B - RCP B
3 - 516 - PRZR PORV BLK VLV MOV-516
3 - TM-450 - RX CLNT COLD LEG TEMP CVT
2 - EHTRRC01A - PRZR PROP HEATERS GRP A1
2 - EHTRRC01B - PRZR BU HEATERS GRP B1
2 - EHTRRC02A - PRZR PROP HEATERS GRP A2
2 - EHTRRC02B - PRZR BU HEATERS GRP B2
2 - PHCC - PRZR HTR CNTRL CAB
2 - PIPING-RCS - PIPING RCS
2 - PS-5 - PRZR PORV SPRT
2 - TM-401R - RPS TAVG L/L UNIT
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102 - Reptask PM
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4 - Older than 1 Year
PM Differences
Unavailable Hours and Functional Failures in last 2 Cycles
Engineering
14 - ARs
16 - CATS
0 - CCSTFs
4 - PCRs
0 - SCRs
1 - SPCRs
WO# 20101868
Priority 2
Work Type C
Initiated 4/10/2001
Completed 5/9/2001
Status X1 - WORK ORDER CLOSED TO HISTORY
Delay
Work Requested T-410B ON MCB RK-3 IS SPIKING. OBSERVATION OF TI-410B1 AND P PCS ARCHIVE OF TO409B INDICATE THE SPIKING WAS ON RECORDER ONLY
As Found RECORDER OPERATING AT INTENDED IN MCB. UPON REMOVAL OF RECORDER INTO SHOP, TOOK AS FOUND DATA FOR EACH CHANNEL ALL IN SPEC. FOUND SERVO CARD FOR CHANNEL 2 GREEN PEN, T-410B, WAS FLUCTUATING. AS FOUND DATA ALL IN TOLERANCE.
Action Taken REMOVED AND REPLACED SERVO-CARD FOR CHANNEL 2, T-410B. TESTED CARD BY LETTING IT BURN IN FOR LONG TIME (1 HOUR) AND WATCHED FOR FAILURES. NO FAILURES. AS LEFT DATA ALL IN TOLERANCE. INSTALLED IN MCB - NO SPIKING OBSERVED ON RK-3. RK-3 WORKIMG GREAT - INDICATIONS CORRECT PER PLANT CONDITIONS.
Failure Assessment SERVO CARD FOR CHAN 2 OF RK-3 WAS REPLACED, NO PM RECOMMEND-ED AT THIS TIME. NOT A MR FAILURE. JTJONES 7/3/01
EIN Description
RK-3 REACTOR COOLANT SYSTEM COLD LEGS AND RESIDUAL HEAT REMOVAL TEMPERATURE
Not Failure Mode ZZ within 3 Cycles
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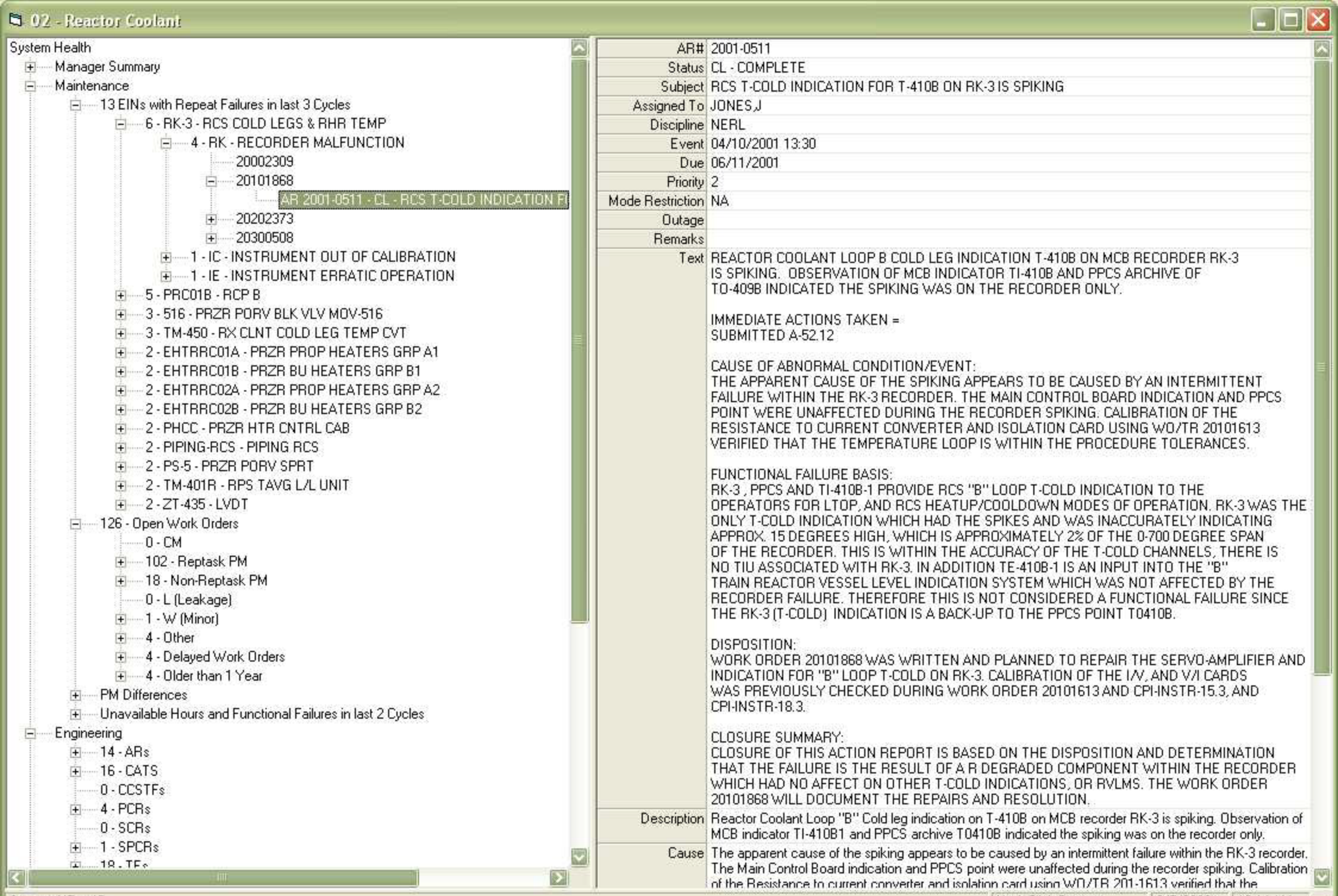
02 - Reactor Coolant
System Health
Manager Summary
Maintenance
13 EINs with Repeat Failures in last 3 Cycles
6 - RK-3 - RCS COLD LEGS & RHR TEMP
4 - RK - RECORDER MALFUNCTION
20002309
20101868
AR 2001-0511 - CL - RCS T-COLD INDICATION FI
20202373
20300508
1 - IC - INSTRUMENT OUT OF CALIBRATION
1 - IE - INSTRUMENT ERRATIC OPERATION
5 - PRC01B - RCP B
3 - 516 - PRZR PORV BLK VLV MOV-516
3 - TM-450 - RX CLNT COLD LEG TEMP CVT
2 - EHTRRC01A - PRZR PROP HEATERS GRP A1
2 - EHTRRC01B - PRZR BU HEATERS GRP B1
2 - EHTRRC02A - PRZR PROP HEATERS GRP A2
2 - EHTRRC02B - PRZR BU HEATERS GRP B2
2 - PHCC - PRZR HTR CNTRL CAB
2 - PIPING-RCS - PIPING RCS
2 - PS-5 - PRZR PORV SPRT
2 - TM-401R - RPS TAVG L/L UNIT
2 - ZT-435 - LVDT
126 - Open Work Orders
0 - CM
102 - Reptask PM
18 - Non-Reptask PM
0 - L (Leakage)
1 - W (Minor)
4 - Other
4 - Delayed Work Orders
4 - Older than 1 Year
PM Differences
Unavailable Hours and Functional Failures in last 2 Cycles
Engineering
14 - ARs
16 - CATS
0 - CCSTFs
4 - PCRs
0 - SCRs
1 - SPCRs
AR# 2001-0511
Status CL - COMPLETE
Subject RCS T-COLD INDICATION FOR T-410B ON RK-3 IS SPIKING
Assigned To JONES,J
Discipline NERL
Event 04/10/2001 13:30
Due 06/11/2001
Priority 2
Mode Restriction NA
Outage
Remarks
Text REACTOR COOLANT LOOP B COLD LEG INDICATION T-410B ON MCB RECORDER RK-3 IS SPIKING. OBSERVATION OF MCB INDICATOR TI-410B AND PPCS ARCHIVE OF TO-409B INDICATED THE SPIKING WAS ON THE RECORDER ONLY.
IMMEDIATE ACTIONS TAKEN = SUBMITTED A-52.12
CAUSE OF ABNORMAL CONDITION/EVENT: THE APPARENT CAUSE OF THE SPIKING APPEARS TO BE CAUSED BY AN INTERMITTENT FAILURE WITHIN THE RK-3 RECORDER. THE MAIN CONTROL BOARD INDICATION AND PPCS POINT WERE UNAFFECTED DURING THE RECORDER SPIKING. CALIBRATION OF THE RESISTANCE TO CURRENT CONVERTER AND ISOLATION CARD USING WO/TR 20101613 VERIFIED THAT THE TEMPERATURE LOOP IS WITHIN THE PROCEDURE TOLERANCES.
FUNCTIONAL FAILURE BASIS: RK-3 , PPCS AND TI-410B-1 PROVIDE RCS "B" LOOP T-COLD INDICATION TO THE OPERATORS FOR LTOP, AND RCS HEATUP/COOLDOWN MODES OF OPERATION. RK-3 WAS THE ONLY T-COLD INDICATION WHICH HAD THE SPIKES AND WAS INACCURATELY INDICATING APPROX. 15 DEGREES HIGH, WHICH IS APPROXIMATELY 2% OF THE 0-700 DEGREE SPAN OF THE RECORDER. THIS IS WITHIN THE ACCURACY OF THE T-COLD CHANNELS, THERE IS NO TIU ASSOCIATED WITH RK-3. IN ADDITION TE-410B-1 IS AN INPUT INTO THE "B" TRAIN REACTOR VESSEL LEVEL INDICATION SYSTEM WHICH WAS NOT AFFECTED BY THE RECORDER FAILURE. THEREFORE THIS IS NOT CONSIDERED A FUNCTIONAL FAILURE SINCE THE RK-3 (T-COLD) INDICATION IS A BACK-UP TO THE PPCS POINT T0410B.
DISPOSITION: WORK ORDER 20101868 WAS WRITTEN AND PLANNED TO REPAIR THE SERVO-AMPLIFIER AND INDICATION FOR "B" LOOP T-COLD ON RK-3. CALIBRATION OF THE I/V, AND V/I CARDS WAS PREVIOUSLY CHECKED DURING WORK ORDER 20101613 AND CPI-INSTR-15.3, AND CPI-INSTR-18.3.
CLOSURE SUMMARY: CLOSURE OF THIS ACTION REPORT IS BASED ON THE DISPOSITION AND DETERMINATION THAT THE FAILURE IS THE RESULT OF A R DEGRADED COMPONENT WITHIN THE RECORDER WHICH HAD NO AFFECT ON OTHER T-COLD INDICATIONS, OR RVLMS. THE WORK ORDER 20101868 WILL DOCUMENT THE REPAIRS AND RESOLUTION.
Description Reactor Coolant Loop "B" Cold leg indication on T-410B on MCB recorder RK-3 is spiking. Observation of MCB indicator TI-410B1 and PPCS archive T0410B indicated the spiking was on the recorder only.
Cause The apparent cause of the spiking appears to be caused by an intermittent failure within the RK-3 recorder. The Main Control Board indication and PPCS point were unaffected during the recorder spiking. Calibration
Status of IP or IC
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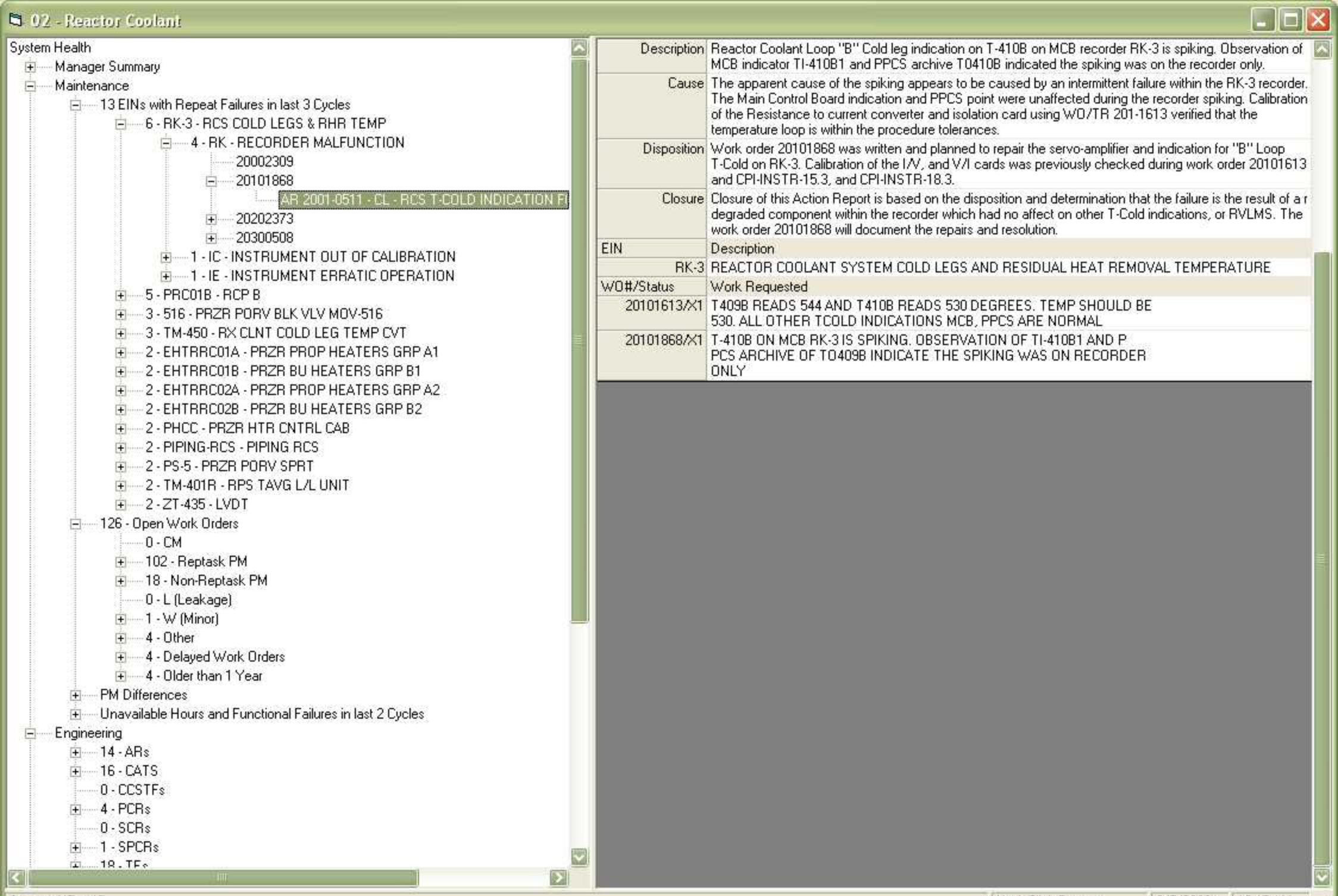
02 - Reactor Coolant
System Health
Manager Summary
Maintenance
13 EINs with Repeat Failures in last 3 Cycles
6 - RK-3 - RCS COLD LEGS & RHR TEMP
4 - RK - RECORDER MALFUNCTION
20002309
20101868
AR 2001-0511 - CL - RCS T-COLD INDICATION FI
20202373
20300508
1 - IC - INSTRUMENT OUT OF CALIBRATION
1 - IE - INSTRUMENT ERRATIC OPERATION
5 - PRC01B - RCP B
3 - 516 - PRZR PORV BLK VLV MOV-516
3 - TM-450 - RX CLNT COLD LEG TEMP CVT
2 - EHTRRC01A - PRZR PROP HEATERS GRP A1
2 - EHTRRC01B - PRZR BU HEATERS GRP B1
2 - EHTRRC02A - PRZR PROP HEATERS GRP A2
2 - EHTRRC02B - PRZR BU HEATERS GRP B2
2 - PHCC - PRZR HTR CNTRL CAB
2 - PIPING-RCS - PIPING RCS
2 - PS-5 - PRZR PORV SPRT
2 - TM-401R - RPS TAVG L/L UNIT
2 - ZT-435 - LVDT
126 - Open Work Orders
0 - CM
102 - Reptask PM
18 - Non-Reptask PM
0 - L (Leakage)
1 - W (Minor)
4 - Other
4 - Delayed Work Orders
4 - Older than 1 Year
PM Differences
Unavailable Hours and Functional Failures in last 2 Cycles
Engineering
14 - ARs
16 - CATS
0 - CCSTFs
4 - PCRs
0 - SCRs
1 - SPCRs
Description
Reactor Coolant Loop "B" Cold leg indication on T-410B on MCB recorder RK-3 is spiking. Observation of MCB indicator TI-410B1 and PPCS archive T0410B indicated the spiking was on the recorder only.
Cause
The apparent cause of the spiking appears to be caused by an intermittent failure within the RK-3 recorder. The Main Control Board indication and PPCS point were unaffected during the recorder spiking. Calibration of the Resistance to current converter and isolation card using WO/TR 201-1613 verified that the temperature loop is within the procedure tolerances.
Disposition
Work order 20101868 was written and planned to repair the servo-amplifier and indication for "B" Loop T-Cold on RK-3. Calibration of the I/V, and V/I cards was previously checked during work order 20101613 and CPI-INSTR-15.3, and CPI-INSTR-18.3.
Closure
Closure of this Action Report is based on the disposition and determination that the failure is the result of a r degraded component within the recorder which had no affect on other T-Cold indications, or RVLMS. The work order 20101868 will document the repairs and resolution.
EIN
Description
RK-3
REACTOR COOLANT SYSTEM COLD LEGS AND RESIDUAL HEAT REMOVAL TEMPERATURE
WO#/Status
Work Requested
20101613/X1
T409B READS 544 AND T410B READS 530 DEGREES. TEMP SHOULD BE 530. ALL OTHER TCOLD INDICATIONS MCB, PPCS ARE NORMAL
20101868/X1
T-410B ON MCB RK-3 IS SPIKING. OBSERVATION OF TI-410B1 AND P PCS ARCHIVE OF TO409B INDICATE THE SPIKING WAS ON RECORDER ONLY
Status of IP or IC
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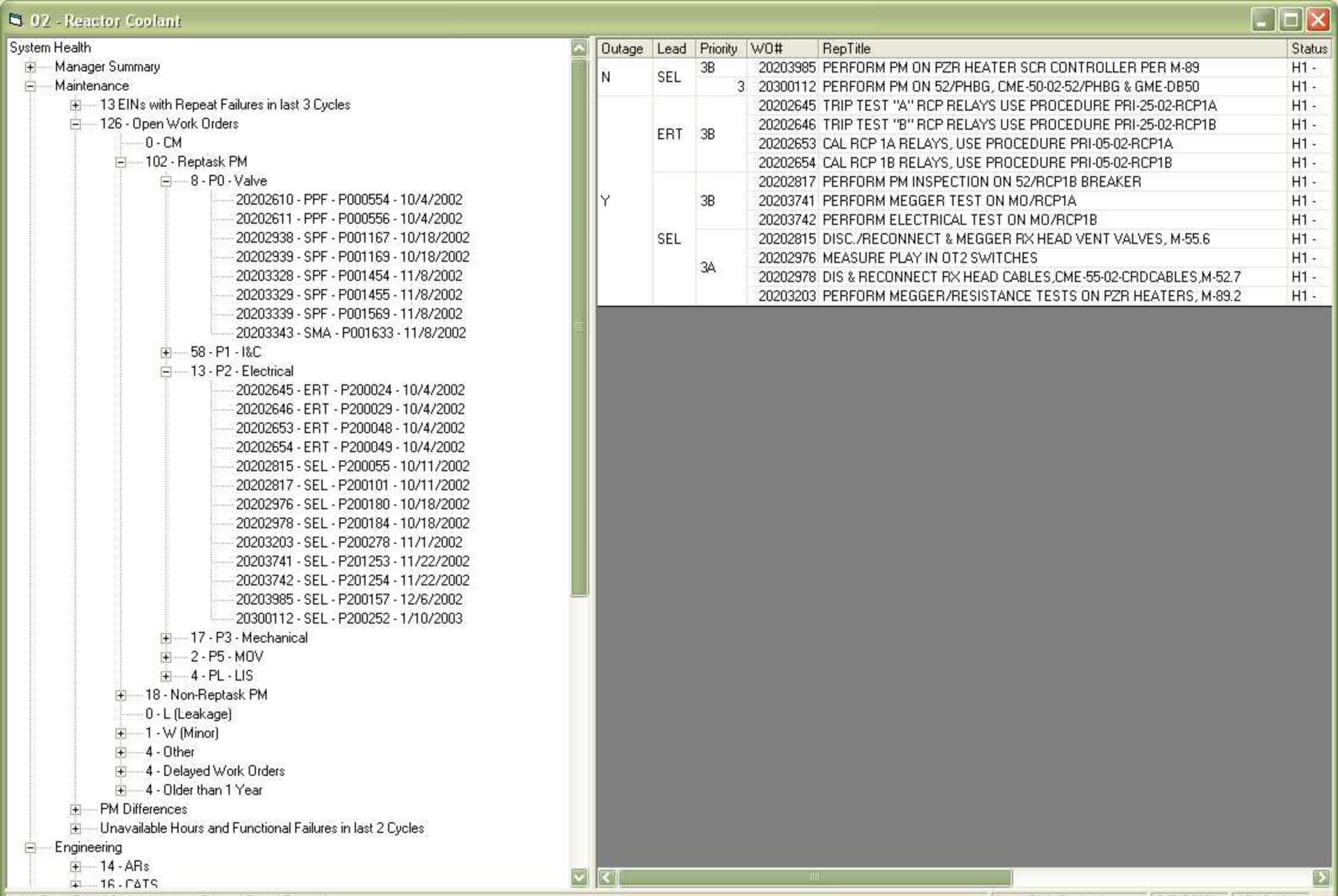
02 - Reactor Coolant
System Health
Manager Summary
Maintenance
13 EINs with Repeat Failures in last 3 Cycles
126 - Open Work Orders
0 - CM
102 - Reptask PM
8 - P0 - Valve
20202610 - PPF - P000554 - 10/4/2002
20202611 - PPF - P000556 - 10/4/2002
20202938 - SPF - P001167 - 10/18/2002
20202939 - SPF - P001169 - 10/18/2002
20203328 - SPF - P001454 - 11/8/2002
20203329 - SPF - P001455 - 11/8/2002
20203339 - SPF - P001569 - 11/8/2002
20203343 - SMA - P001633 - 11/8/2002
58 - P1 - I&C
13 - P2 - Electrical
20202645 - ERT - P200024 - 10/4/2002
20202646 - ERT - P200029 - 10/4/2002
20202653 - ERT - P200048 - 10/4/2002
20202654 - ERT - P200049 - 10/4/2002
20202815 - SEL - P200055 - 10/11/2002
20202817 - SEL - P200101 - 10/11/2002
20202976 - SEL - P200180 - 10/18/2002
20202978 - SEL - P200184 - 10/18/2002
20203203 - SEL - P200278 - 11/1/2002
20203741 - SEL - P201253 - 11/22/2002
20203742 - SEL - P201254 - 11/22/2002
20203985 - SEL - P200157 - 12/6/2002
20300112 - SEL - P200252 - 1/10/2003
17 - P3 - Mechanical
2 - P5 - MOV
4 - PL - LIS
18 - Non-Reptask PM
0 - L (Leakage)
1 - W (Minor)
4 - Other
4 - Delayed Work Orders
4 - Older than 1 Year
PM Differences
Unavailable Hours and Functional Failures in last 2 Cycles
Engineering
14 - ARs
16 - CATS
Outage Lead Priority WO# RepTitle Status
N SEL 3B 20203985 PERFORM PM ON PZR HEATER SCR CONTROLLER PER M-89 H1 -
3 20300112 PERFORM PM ON 52/PHBG, CME-50-02-52/PHBG & GME-DB50 H1 -
ERT 3B 20202645 TRIP TEST "A" RCP RELAYS USE PROCEDURE PRI-25-02-RCP1A H1 -
20202646 TRIP TEST "B" RCP RELAYS USE PROCEDURE PRI-25-02-RCP1B H1 -
20202653 CAL RCP 1A RELAYS, USE PROCEDURE PRI-05-02-RCP1A H1 -
20202654 CAL RCP 1B RELAYS, USE PROCEDURE PRI-05-02-RCP1B H1 -
Y 3B 20202817 PERFORM PM INSPECTION ON 52/RCP1B BREAKER H1 -
20203741 PERFORM MEGGER TEST ON MO/RCP1A H1 -
20203742 PERFORM ELECTRICAL TEST ON MO/RCP1B H1 -
SEL 20202815 DISC./RECONNECT & MEGGER RX HEAD VENT VALVES, M-55.6 H1 -
3A 20202976 MEASURE PLAY IN OT2 SWITCHES H1 -
20202978 DIS & RECONNECT RX HEAD CABLES,CME-55-02-CRDCABLES,M-52.7 H1 -
20203203 PERFORM MEGGER/RESISTANCE TESTS ON PZR HEATERS, M-89.2 H1 -
WorkType P and Status between B1 and Q and Reptask
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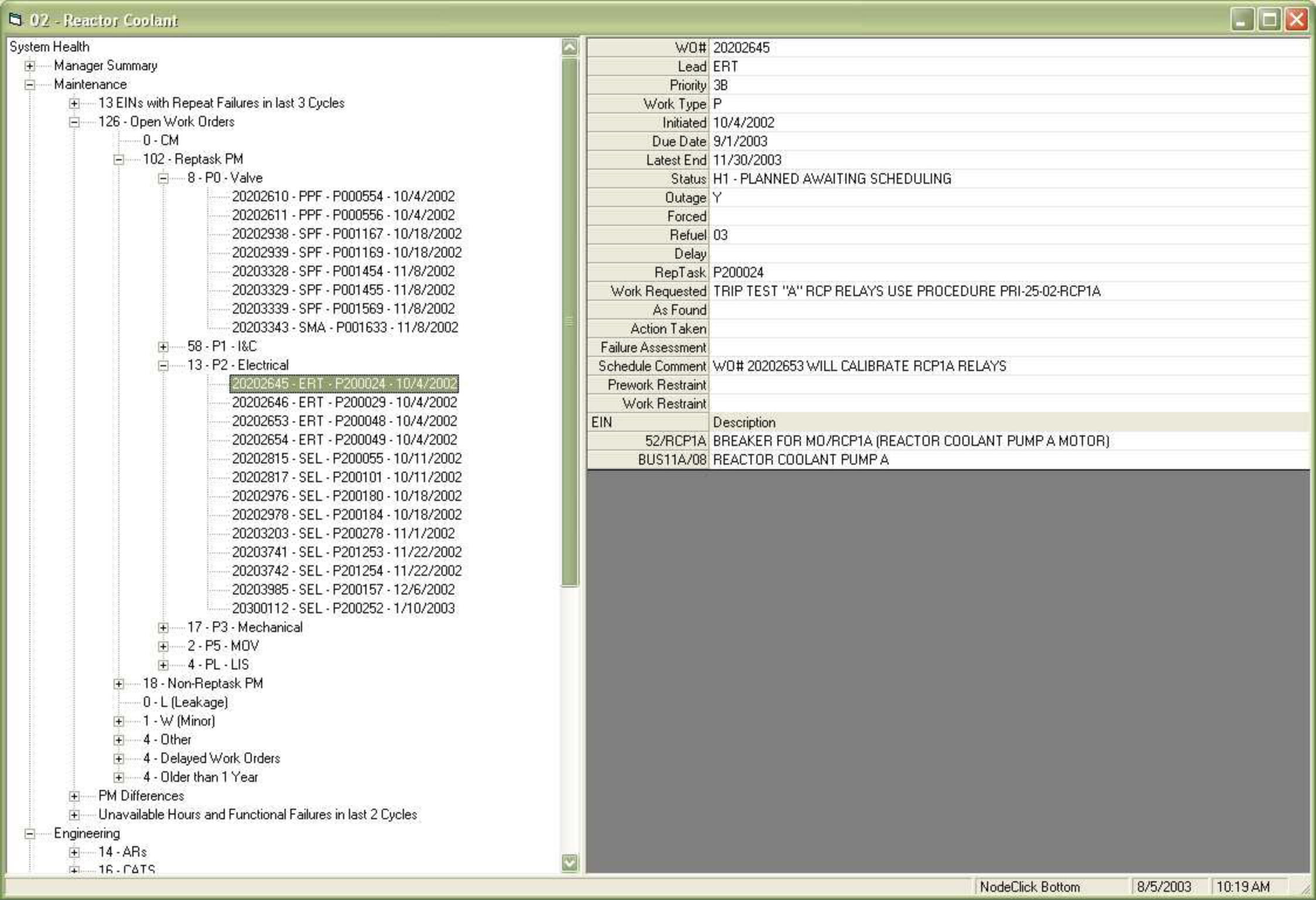
10:18 AM


02 - Reactor Coolant
System Health
Manager Summary
Maintenance
13 EINs with Repeat Failures in last 3 Cycles
126 - Open Work Orders
0 - CM
102 - Reptask PM
8 - P0 - Valve
20202610 - PPF - P000554 - 10/4/2002
20202611 - PPF - P000556 - 10/4/2002
20202938 - SPF - P001167 - 10/18/2002
20202939 - SPF - P001169 - 10/18/2002
20203328 - SPF - P001454 - 11/8/2002
20203329 - SPF - P001455 - 11/8/2002
20203339 - SPF - P001569 - 11/8/2002
20203343 - SMA - P001633 - 11/8/2002
58 - P1 - I&C
13 - P2 - Electrical
20202645 - ERT - P200024 - 10/4/2002
20202646 - ERT - P200029 - 10/4/2002
20202653 - ERT - P200048 - 10/4/2002
20202654 - ERT - P200049 - 10/4/2002
20202815 - SEL - P200055 - 10/11/2002
20202817 - SEL - P200101 - 10/11/2002
20202976 - SEL - P200180 - 10/18/2002
20202978 - SEL - P200184 - 10/18/2002
20203203 - SEL - P200278 - 11/1/2002
20203741 - SEL - P201253 - 11/22/2002
20203742 - SEL - P201254 - 11/22/2002
20203985 - SEL - P200157 - 12/6/2002
20300112 - SEL - P200252 - 1/10/2003
17 - P3 - Mechanical
2 - P5 - MOV
4 - PL - LIS
18 - Non-Reptask PM
0 - L (Leakage)
1 - W (Minor)
4 - Other
4 - Delayed Work Orders
4 - Older than 1 Year
PM Differences
Unavailable Hours and Functional Failures in last 2 Cycles
Engineering
14 - ARs
16 - CATS
WO# 20202645
Lead ERT
Priority 3B
Work Type P
Initiated 10/4/2002
Due Date 9/1/2003
Latest End 11/30/2003
Status H1 - PLANNED AWAITING SCHEDULING
Outage Y
Forced
Refuel 03
Delay
RepTask P200024
Work Requested TRIP TEST "A" RCP RELAYS USE PROCEDURE PRI-25-02-RCP1A
As Found
Action Taken
Failure Assessment
Schedule Comment WO# 20202653 WILL CALIBRATE RCP1A RELAYS
Prework Restraint
Work Restraint
EIN Description
52/RCP1A BREAKER FOR MO/RCP1A (REACTOR COOLANT PUMP A MOTOR)
BUS11A/08 REACTOR COOLANT PUMP A
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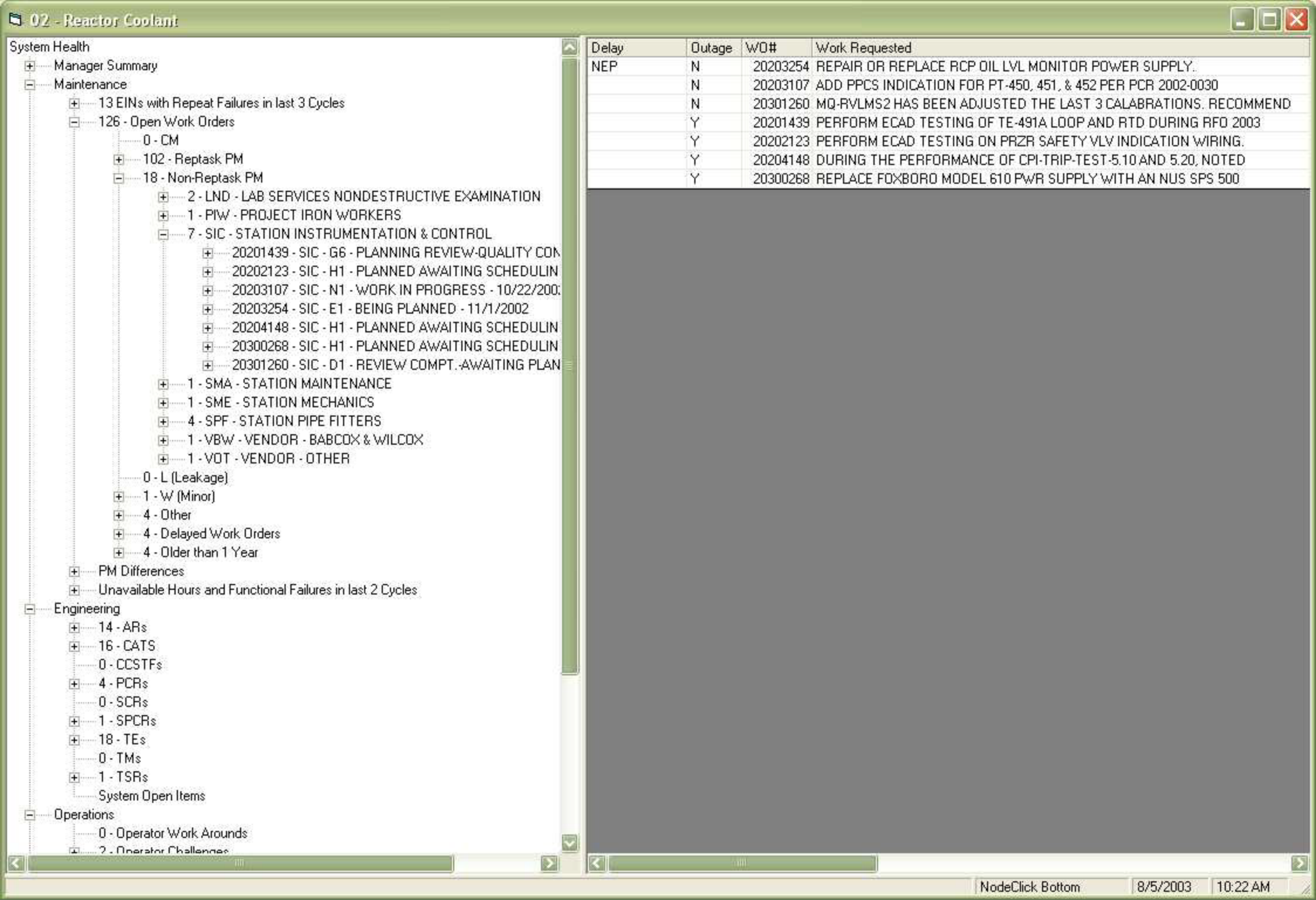
02 - Reactor Coolant
System Health
Manager Summary
Maintenance
13 EINs with Repeat Failures in last 3 Cycles
126 - Open Work Orders
0 - CM
102 - Reptask PM
18 - Non-Reptask PM
2 - LND - LAB SERVICES NONDESTRUCTIVE EXAMINATION
1 - PIW - PROJECT IRON WORKERS
7 - SIC - STATION INSTRUMENTATION & CONTROL
20201439 - SIC - G6 - PLANNING REVIEW-QUALITY CON
20202123 - SIC - H1 - PLANNED AWAITING SCHEDULIN
20203107 - SIC - N1 - WORK IN PROGRESS - 10/22/200
20203254 - SIC - E1 - BEING PLANNED - 11/1/2002
20204148 - SIC - H1 - PLANNED AWAITING SCHEDULIN
20300268 - SIC - H1 - PLANNED AWAITING SCHEDULIN
20301260 - SIC - D1 - REVIEW COMPT.-AWAITING PLAN
1 - SMA - STATION MAINTENANCE
1 - SME - STATION MECHANICS
4 - SPF - STATION PIPE FITTERS
1 - VBW - VENDOR - BABCOX & WILCOX
1 - VOT - VENDOR - OTHER
0 - L (Leakage)
1 - W (Minor)
4 - Other
4 - Delayed Work Orders
4 - Older than 1 Year
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14 - ARs
16 - CATS
0 - CCSTFs
4 - PCRs
0 - SCRs
1 - SPCRs
18 - TEs
0 - TMs
1 - TSRs
System Open Items
Operations
0 - Operator Work Arounds
Delay
Outage
WO#
Work Requested
NEP
N
20203254
REPAIR OR REPLACE RCP OIL LVL MONITOR POWER SUPPLY.
N
20203107
ADD PPCS INDICATION FOR PT-450, 451, & 452 PER PCR 2002-0030
N
20301260
MQ-RVLMS2 HAS BEEN ADJUSTED THE LAST 3 CALABRATIONS. RECOMMEND
Y
20201439
PERFORM ECAD TESTING OF TE-491A LOOP AND RTD DURING RFO 2003
Y
20202123
PERFORM ECAD TESTING ON PRZR SAFETY VLV INDICATION WIRING.
Y
20204148
DURING THE PERFORMANCE OF CPI-TRIP-TEST-5.10 AND 5.20, NOTED
Y
20300268
REPLACE FOXBORO MODEL 610 PWR SUPPLY WITH AN NUS SPS 500
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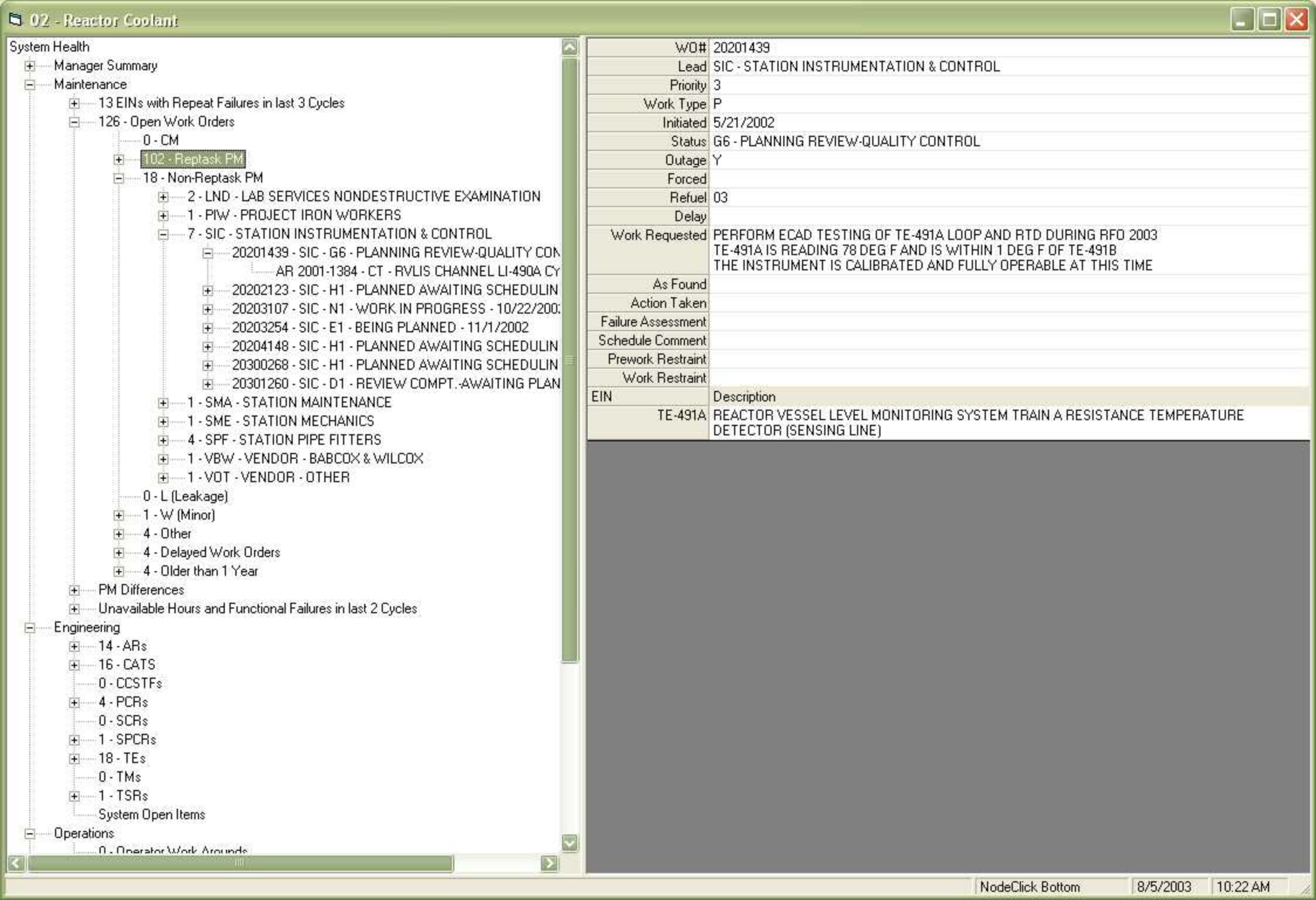
02 - Reactor Coolant
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20201439 - SIC - G6 - PLANNING REVIEW-QUALITY CON
AR 2001-1384 - CT - RVLIS CHANNEL LI-490A CY
20202123 - SIC - H1 - PLANNED AWAITING SCHEDULIN
20203107 - SIC - N1 - WORK IN PROGRESS - 10/22/200
20203254 - SIC - E1 - BEING PLANNED - 11/1/2002
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20300268 - SIC - H1 - PLANNED AWAITING SCHEDULIN
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14 - ARs
16 - CATS
0 - CCSTFs
4 - PCRs
0 - SCRs
1 - SPCRs
18 - TEs
0 - TMs
1 - TSRs
System Open Items
Operations
0 - Operator Work Arounds
WO# 20201439
Lead SIC - STATION INSTRUMENTATION & CONTROL
Priority 3
Work Type P
Initiated 5/21/2002
Status G6 - PLANNING REVIEW-QUALITY CONTROL
Outage Y
Forced
Refuel 03
Delay
Work Requested PERFORM ECAD TESTING OF TE-491A LOOP AND RTD DURING RFO 2003
TE-491A IS READING 78 DEG F AND IS WITHIN 1 DEG F OF TE-491B
THE INSTRUMENT IS CALIBRATED AND FULLY OPERABLE AT THIS TIME
As Found
Action Taken
Failure Assessment
Schedule Comment
Prework Restraint
Work Restraint
EIN Description
TE-491A REACTOR VESSEL LEVEL MONITORING SYSTEM TRAIN A RESISTANCE TEMPERATURE DETECTOR (SENSING LINE)
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8/5/2003
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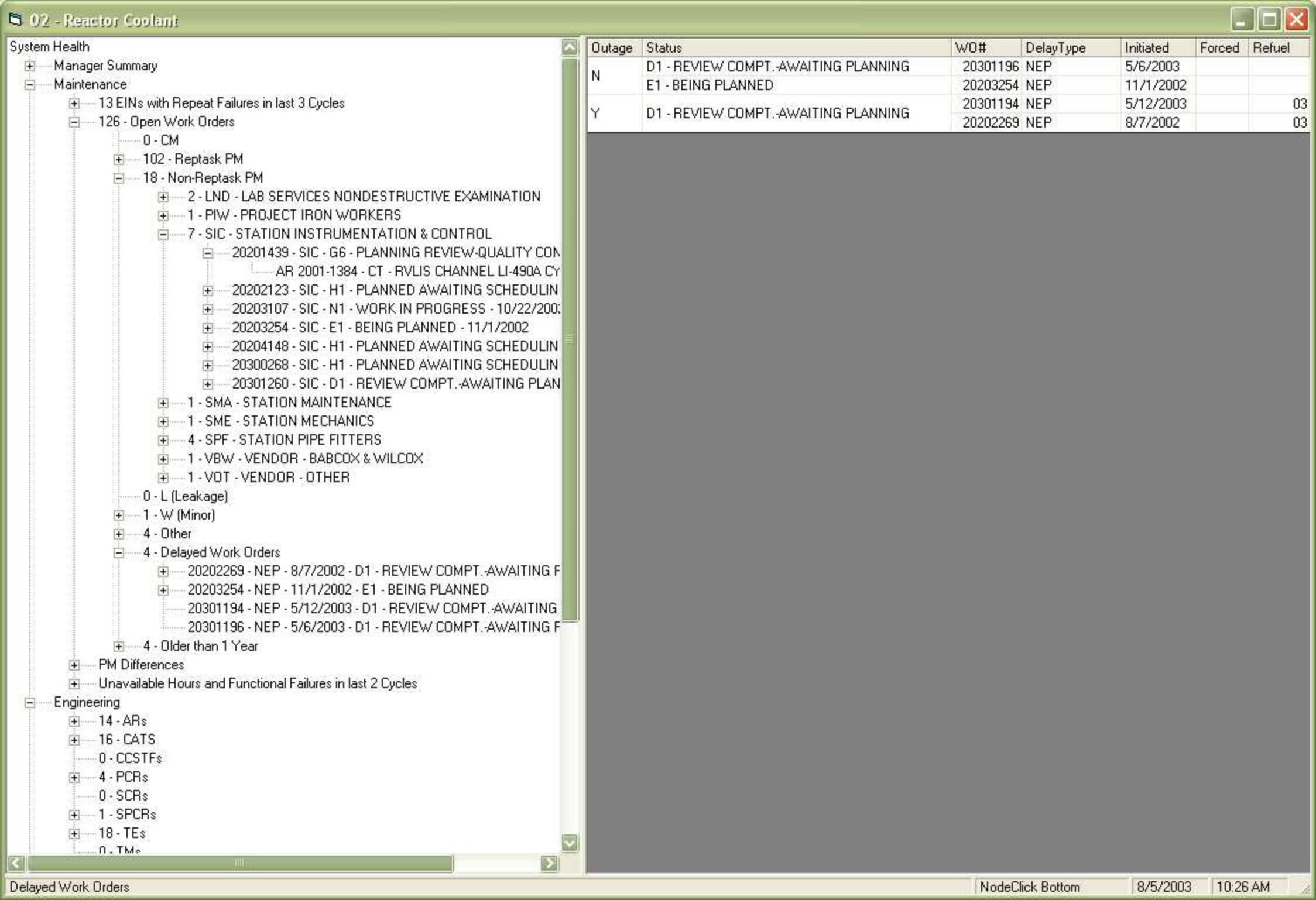
02 - Reactor Coolant

- System Health
  - Manager Summary
  - Maintenance
    - 13 EINs with Repeat Failures in last 3 Cycles
    - 126 - Open Work Orders
      - 0 - CM
      - 102 - Reptask PM
      - 18 - Non-Reptask PM
        - 2 - LND - LAB SERVICES NONDESTRUCTIVE EXAMINATION
        - 1 - PIW - PROJECT IRON WORKERS
        - 7 - SIC - STATION INSTRUMENTATION & CONTROL
          - 20201439 - SIC - G6 - PLANNING REVIEW-QUALITY CON
            - AR 2001-1384 - CT - RVLIS CHANNEL LI-490A CY
          - 20202123 - SIC - H1 - PLANNED AWAITING SCHEDULIN
          - 20203107 - SIC - N1 - WORK IN PROGRESS - 10/22/200
          - 20203254 - SIC - E1 - BEING PLANNED - 11/1/2002
          - 20204148 - SIC - H1 - PLANNED AWAITING SCHEDULIN
          - 20300268 - SIC - H1 - PLANNED AWAITING SCHEDULIN
          - 20301260 - SIC - D1 - REVIEW COMPT.-AWAITING PLAN
        - 1 - SMA - STATION MAINTENANCE
        - 1 - SME - STATION MECHANICS
        - 4 - SPF - STATION PIPE FITTERS
        - 1 - VBW - VENDOR - BABCOX & WILCOX
        - 1 - VOT - VENDOR - OTHER
      - 0 - L (Leakage)
      - 1 - W (Minor)
      - 4 - Other
      - 4 - Delayed Work Orders
      - 4 - Older than 1 Year
    - PM Differences
    - Unavailable Hours and Functional Failures in last 2 Cycles
  - Engineering
    - 14 - ARs
    - 16 - CATS
    - 0 - CCSTFs
    - 4 - PCRs
    - 0 - SCRs
    - 1 - SPCRs
    - 18 - TEs
    - 0 - TMs
    - 1 - TSRs
    - System Open Items
  - Operations
    - 0 - Operator Work Arounds

AR#	2001-1384
Status	CT - CLOSED TRACKING
Subject	RVLIS CHANNEL LI-490A CYCLING
Assigned To	BANKE,J
Discipline	NEP
Event	08/05/2001 00:30
Due	06/30/2002
Priority	3B
Mode Restriction	NA
Outage	
Remarks	AR SENT TO RECORDS 6-13-02
Text	"A" RVLIS ON MCB IS CYCLING FROM 96% TO 98%. CAUSING SAS TO INDICATE A YELLOW PATH TO FR-I.3. IMMEDIATE ACTIONS TAKEN = CHANNEL MAY REQUIRE CALIBRATION CAUSE OF ABNORMAL CONDITION/EVENT: THE CAUSE OF THE LEVEL INDICATOR CYCLING WAS THAT T0491A JUMPED FROM 111.5F TO 473.7F, AND THEN LATER RETURNED TO NORMAL. THE INDICATOR DID THIS TWICE. THE OPERATOR STATED THAT THE NET EFFECT ON RVLMS INDICATION WAS TO DECREASE RVLMS CHANNEL A FROM 98% TO 96% THEN RETURN TO 98%, A NET CHANGE OF 2.0%. THE APPARENT CAUSE OF THE LEVEL INDICATION CHANGE ON L0490A WAS A SHIFT IN THE TEMPERATURE INDICATOR T0491A. 08-05-01 T0491A NORMALLY INDICATES 101F SUDDENLY IT INDICATES 473F FOR OVER 16 HOURS THEN RETURNS TO 101F. 11-14-01 CALIBRATION PROCEDURE CPI-INSTR-15.1, 15.2, AND 15.3 PERFORMED ALL SAT. 02-11-02 T0491A ELECTRICAL CONNECTIONS WERE CHECKED, AND TDR PERFORMED USING WO# 20103041 AND WERE VERIFIED IN SPEC. 03-20-02 WO# 20100939 CALIBRATED CHANNEL LT-490A PER CPI-LT-490A. NO ADJUSTMENTS NEEDED. 03-31-02 WO# 20103037 ELECTRICAL CONNECTIONS WERE CHECKED DURING OUTAGE. A REAL RCS FLUID CHANGE WAS RULED OUT BECAUSE IF RCS FLUID HAD PASSED THE RTD THEN THE OTHER RTDS ON THE LINE WOULD HAVE ALSO CHANGED, I.E. IF TI0491A CHANGED THEN, TI0491B WOULD HAVE HAD TO CHANGE IF RCS FLUID HAD REALLY MOVED IN THE LINE. THE SAS DISPLAY CORRECTLY INDICATED A YELLOW PATH FOR THE CONDITIONS IT WAS SEEING. IT SAW 2 RCPS RUNNING AND RVLMS LEVEL LESS THAN 97%. SAS WORKED CORRECTLY. IT WAS DETERMINED THAT AFTER THE TROUBLESHOOTING WAS COMPLETE NO DEFINITE CAUSE WAS FOUND. THE PROBLEM LASTED A TOTAL OF 16 HOURS AND DID NOT RETURN NOR COULD IT BE REPEATED DURING MAINTENANCE. IN SEPTEMBER 2001, TE-491A (112F) WAS 15F TO 18F HIGHER THAN TE-491B (94F).


02 - Reactor Coolant
System Health
Manager Summary
Maintenance
13 EINs with Repeat Failures in last 3 Cycles
126 - Open Work Orders
0 - CM
102 - Reptask PM
18 - Non-Reptask PM
2 - LND - LAB SERVICES NONDESTRUCTIVE EXAMINATION
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20201439 - SIC - G6 - PLANNING REVIEW-QUALITY CON
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20203107 - SIC - N1 - WORK IN PROGRESS - 10/22/200
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1 - VOT - VENDOR - OTHER
0 - L (Leakage)
1 - W (Minor)
4 - Other
4 - Delayed Work Orders
20202269 - NEP - 8/7/2002 - D1 - REVIEW COMPT.-AWAITING F
20203254 - NEP - 11/1/2002 - E1 - BEING PLANNED
20301194 - NEP - 5/12/2003 - D1 - REVIEW COMPT.-AWAITING
20301196 - NEP - 5/6/2003 - D1 - REVIEW COMPT.-AWAITING F
4 - Older than 1 Year
PM Differences
Unavailable Hours and Functional Failures in last 2 Cycles
Engineering
14 - ARs
16 - CATS
0 - CCSTFs
4 - PCRs
0 - SCRs
1 - SPCRs
18 - TEs
0 - TMs
Outage
Status
WO#
DelayType
Initiated
Forced
Refuel
N
D1 - REVIEW COMPT.-AWAITING PLANNING
20301196
NEP
5/6/2003
E1 - BEING PLANNED
20203254
NEP
11/1/2002
Y
D1 - REVIEW COMPT.-AWAITING PLANNING
20301194
NEP
5/12/2003
03
20202269
NEP
8/7/2002
03
Delayed Work Orders
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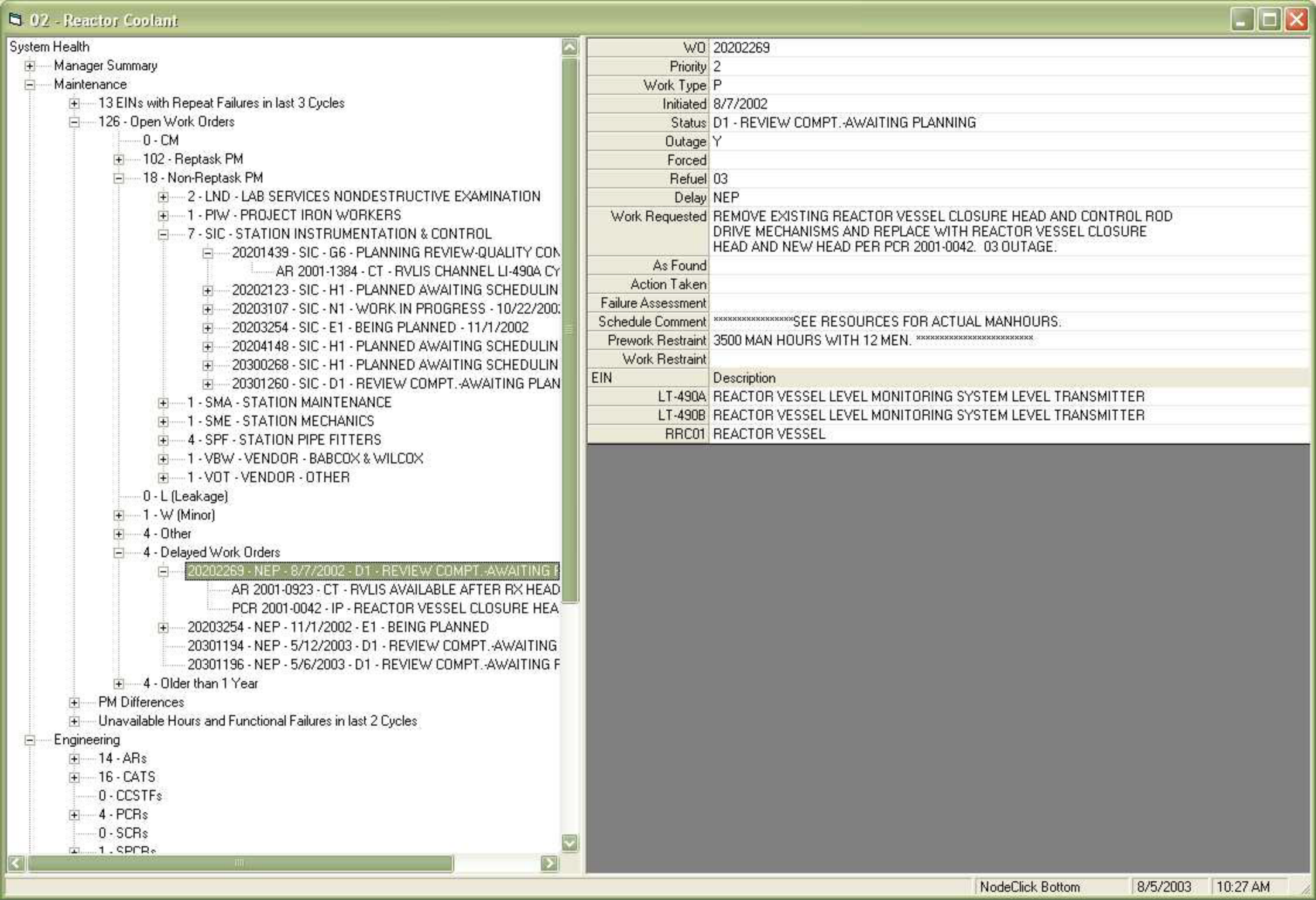
02 - Reactor Coolant
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20201439 - SIC - G6 - PLANNING REVIEW-QUALITY CON
AR 2001-1384 - CT - RVLIS CHANNEL LI-490A CY
20202123 - SIC - H1 - PLANNED AWAITING SCHEDULIN
20203107 - SIC - N1 - WORK IN PROGRESS - 10/22/200
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0 - L (Leakage)
1 - W (Minor)
4 - Other
4 - Delayed Work Orders
20202269 - NEP - 8/7/2002 - D1 - REVIEW COMPT.-AWAITING P
AR 2001-0923 - CT - RVLIS AVAILABLE AFTER RX HEAD
PCR 2001-0042 - IP - REACTOR VESSEL CLOSURE HEA
20203254 - NEP - 11/1/2002 - E1 - BEING PLANNED
20301194 - NEP - 5/12/2003 - D1 - REVIEW COMPT.-AWAITING
20301196 - NEP - 5/6/2003 - D1 - REVIEW COMPT.-AWAITING F
4 - Older than 1 Year
PM Differences
Unavailable Hours and Functional Failures in last 2 Cycles
Engineering
14 - ARs
16 - CATS
0 - CCSTFs
4 - PCRs
0 - SCRs
1 - SPCRs
WO 20202269
Priority 2
Work Type P
Initiated 8/7/2002
Status D1 - REVIEW COMPT.-AWAITING PLANNING
Outage Y
Forced
Refuel 03
Delay NEP
Work Requested REMOVE EXISTING REACTOR VESSEL CLOSURE HEAD AND CONTROL ROD DRIVE MECHANISMS AND REPLACE WITH REACTOR VESSEL CLOSURE HEAD AND NEW HEAD PER PCR 2001-0042. 03 OUTAGE.
As Found
Action Taken
Failure Assessment
Schedule Comment **********SEE RESOURCES FOR ACTUAL MANHOURS.
Prework Restraint 3500 MAN HOURS WITH 12 MEN. **********
Work Restraint
EIN Description
LT-490A REACTOR VESSEL LEVEL MONITORING SYSTEM LEVEL TRANSMITTER
LT-490B REACTOR VESSEL LEVEL MONITORING SYSTEM LEVEL TRANSMITTER
RRC01 REACTOR VESSEL
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8/5/2003
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02 - Reactor Coolant
System Health
Manager Summary
Maintenance
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4 - Older than 1 Year
PM Differences
Unavailable Hours and Functional Failures in last 2 Cycles
Engineering
14 - ARs
2001-0644 - IP - RECEIVED MCB ALARM B-12 RCP 1B STANDPIPE LOW
2002-1022 - IP - ENTRY INTO AP-RCP.1 DUE TO LOW SEAL LEAKOFF
2002-1419 - IP - ZT-435 POSITION INDICATION FLUCTUATING CAUSINI
2002-1709 - IP - WESTINGHOUSE TB 91-04 R1, "RCP MAIN FLANGE JO
2002-1901 - IP - INCREASED FREQUENCY OF RCP VIBRATION ALERT /
2002-2756 - IP - PCV - 431B PRZR SPRAY VALVE B
2002-2777 - IP - MCB ALARMS WHILE RESTORING TAVG DEFEAT SWI
2003-0063 - IP - NEW POWER SUPPLY INSTALLATION CAUSES PRT LI
2003-0846 - IP - PCV-435 INDICATION DRIFTING
2003-1086 - IP - REACTOR LEVEL MONITORING SYSTEM NEST POWE
2003-1087 - IP - CALIBRATION PROCEDURE TOLERANCES BETWEEN
2003-1095 - IP - CPI-INSTR-18.1 DID NOT ADDRESS TO410B LCO
2003-1214 - IP - AP-RCP.1 ENTRY FOR RCP B
2003-1297 - IP - PZR SAFETY VLV PCV-435 POSITION INDICATION DRII
16 - CATS
0 - CCSTFs
4 - PCRs
0 - SCRs
1 - SPCRs
18 - TEs
0 - TMs
1 - TSRs
System Open Items
Operations
0 - Operator Work Arounds
2 - Operator Challenges
ID
Status
Scheduled
Subject
2001-0644 IP RECEIVED MCB ALARM B-12 RCP 1B STANDPIPE LOW LEVEL. REFILL INTERVAL OF
2002-1022 IP ENTRY INTO AP-RCP.1 DUE TO LOW SEAL LEAKOFF
2002-1419 IP ZT-435 POSITION INDICATION FLUCTUATING CAUSING MCB ANNUNCIATOR AA-13
2002-1709 IP 20031231 WESTINGHOUSE TB 91-04 R1, "RCP MAIN FLANGE JOINT INTEGRITY", OE
2002-1901 IP 20031230 INCREASED FREQUENCY OF RCP VIBRATION ALERT ALARM
2002-2756 IP PCV - 431B PRZR SPRAY VALVE B
2002-2777 IP MCB ALARMS WHILE RESTORING TAVG DEFEAT SWITCH
2003-0063 IP NEW POWER SUPPLY INSTALLATION CAUSES PRT LEVEL INDICATION TO LOWER.
2003-0846 IP PCV-435 INDICATION DRIFTING
2003-1086 IP REACTOR LEVEL MONITORING SYSTEM NEST POWER SUPPLY IS OUT OF
2003-1087 IP CALIBRATION PROCEDURE TOLERANCES BETWEEN LIKE EQUIPMENT, DIFFER
2003-1095 IP CPI-INSTR-18.1 DID NOT ADDRESS TO410B LCO
2003-1214 IP AP-RCP.1 ENTRY FOR RCP B
2003-1297 IP PZR SAFETY VLV PCV-435 POSITION INDICATION DRIFTING UP
Status of IP or IC
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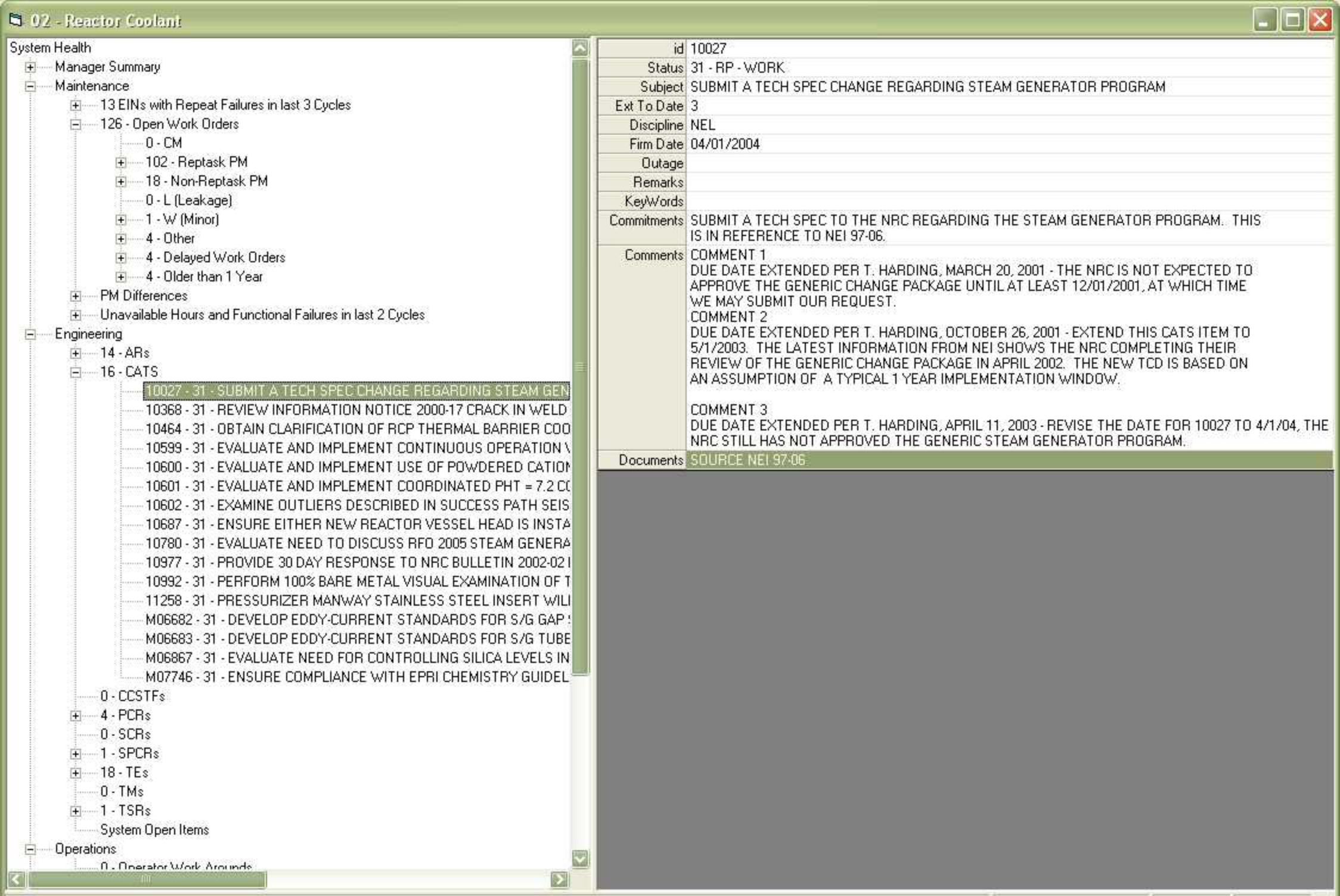
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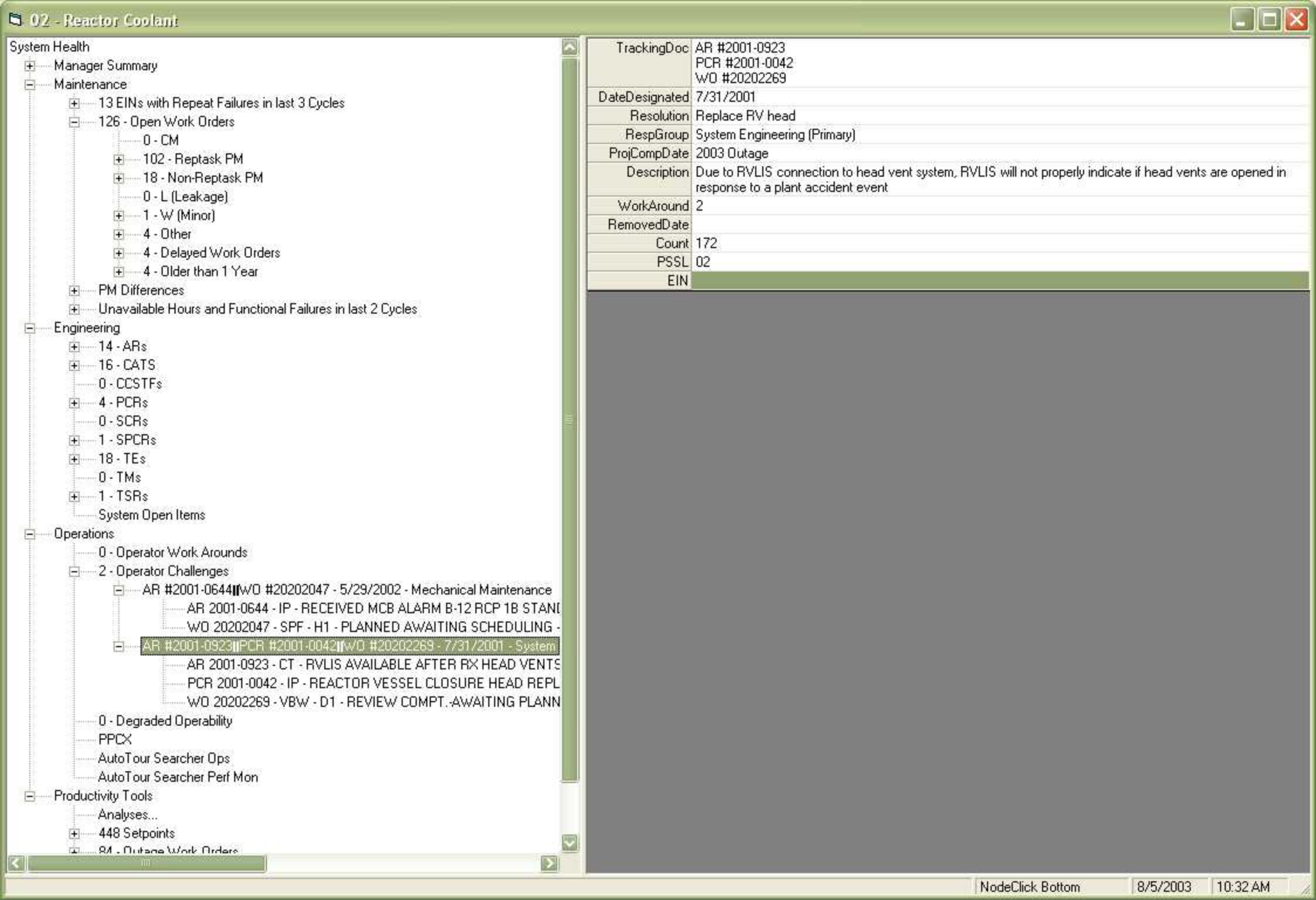
Unavailable Hours and Functional Failures in last 2 Cycles
Engineering
14 - ARs
16 - CATS
10027 - 31 - SUBMIT A TECH SPEC CHANGE REGARDING STEAM GEN
10368 - 31 - REVIEW INFORMATION NOTICE 2000-17 CRACK IN WELD
10464 - 31 - OBTAIN CLARIFICATION OF RCP THERMAL BARRIER COO
10599 - 31 - EVALUATE AND IMPLEMENT CONTINUOUS OPERATION
10600 - 31 - EVALUATE AND IMPLEMENT USE OF POWDERED CATIO
10601 - 31 - EVALUATE AND IMPLEMENT COORDINATED PHT = 7.2 C
10602 - 31 - EXAMINE OUTLIERS DESCRIBED IN SUCCESS PATH SEIS
10687 - 31 - ENSURE EITHER NEW REACTOR VESSEL HEAD IS INSTA
10780 - 31 - EVALUATE NEED TO DISCUSS RFO 2005 STEAM GENERA
10977 - 31 - PROVIDE 30 DAY RESPONSE TO NRC BULLETIN 2002-02
10992 - 31 - PERFORM 100% BARE METAL VISUAL EXAMINATION OF T
11258 - 31 - PRESSURIZER MANWAY STAINLESS STEEL INSERT WILI
M06682 - 31 - DEVELOP EDDY-CURRENT STANDARDS FOR S/G GAP
M06683 - 31 - DEVELOP EDDY-CURRENT STANDARDS FOR S/G TUBE
M06867 - 31 - EVALUATE NEED FOR CONTROLLING SILICA LEVELS IN
M07746 - 31 - ENSURE COMPLIANCE WITH EPRI CHEMISTRY GUIDEL
0 - CCSTFs
4 - PCRs
0 - SCRs
1 - SPCRs
18 - TEs
0 - TMs
1 - TSRs
System Open Items
Operations
0 - Operator Work Arounds
id 10027
Status 31 - RP - WORK
Subject SUBMIT A TECH SPEC CHANGE REGARDING STEAM GENERATOR PROGRAM
Ext To Date 3
Discipline NEL
Firm Date 04/01/2004
Outage
Remarks
KeyWords
Commitments SUBMIT A TECH SPEC TO THE NRC REGARDING THE STEAM GENERATOR PROGRAM. THIS IS IN REFERENCE TO NEI 97-06.
Comments COMMENT 1
DUE DATE EXTENDED PER T. HARDING, MARCH 20, 2001 - THE NRC IS NOT EXPECTED TO APPROVE THE GENERIC CHANGE PACKAGE UNTIL AT LEAST 12/01/2001, AT WHICH TIME WE MAY SUBMIT OUR REQUEST.
COMMENT 2
DUE DATE EXTENDED PER T. HARDING, OCTOBER 26, 2001 - EXTEND THIS CATS ITEM TO 5/1/2003. THE LATEST INFORMATION FROM NEI SHOWS THE NRC COMPLETING THEIR REVIEW OF THE GENERIC CHANGE PACKAGE IN APRIL 2002. THE NEW TCD IS BASED ON AN ASSUMPTION OF A TYPICAL 1 YEAR IMPLEMENTATION WINDOW.
COMMENT 3
DUE DATE EXTENDED PER T. HARDING, APRIL 11, 2003 - REVISE THE DATE FOR 10027 TO 4/1/04, THE NRC STILL HAS NOT APPROVED THE GENERIC STEAM GENERATOR PROGRAM.
Documents SOURCE NEI 97-06
Status of B, A1, 20, 10 or 31
NodeClick Bottom
8/5/2003
10:30 AM


02 - Reactor Coolant
System Health
Manager Summary
Maintenance
13 EINs with Repeat Failures in last 3 Cycles
126 - Open Work Orders
0 - CM
102 - Reptask PM
18 - Non-Reptask PM
0 - L (Leakage)
1 - W (Minor)
4 - Other
4 - Delayed Work Orders
4 - Older than 1 Year
PM Differences
Unavailable Hours and Functional Failures in last 2 Cycles
Engineering
14 - ARs
16 - CATS
0 - CCSTFs
4 - PCRs
0 - SCRs
1 - SPCRs
18 - TEs
0 - TMs
1 - TSRs
System Open Items
Operations
0 - Operator Work Arounds
2 - Operator Challenges
AR #2001-0644||WO #20202047 - 5/29/2002 - Mechanical Maintenance
AR 2001-0644 - IP - RECEIVED MCB ALARM B-12 RCP 1B STAN
WO 20202047 - SPF - H1 - PLANNED AWAITING SCHEDULING -
AR #2001-0923||PCR #2001-0042||WO #20202269 - 7/31/2001 - System
AR 2001-0923 - CT - RVLIS AVAILABLE AFTER RX HEAD VENTS
PCR 2001-0042 - IP - REACTOR VESSEL CLOSURE HEAD REPL
WO 20202269 - VBW - D1 - REVIEW COMPT.-AWAITING PLANN
0 - Degraded Operability
PPCX
AutoTour Searcher Ops
AutoTour Searcher Perf Mon
Productivity Tools
Analyses...
448 Setpoints
84 - Outage Work Orders
TrackingDoc AR #2001-0923 PCR #2001-0042 WO #20202269
DateDesignated 7/31/2001
Resolution Replace RV head
RespGroup System Engineering (Primary)
ProjCompDate 2003 Outage
Description Due to RVLIS connection to head vent system, RVLIS will not properly indicate if head vents are opened in response to a plant accident event
WorkAround 2
RemovedDate
Count 172
PSSL 02
EIN
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8/5/2003
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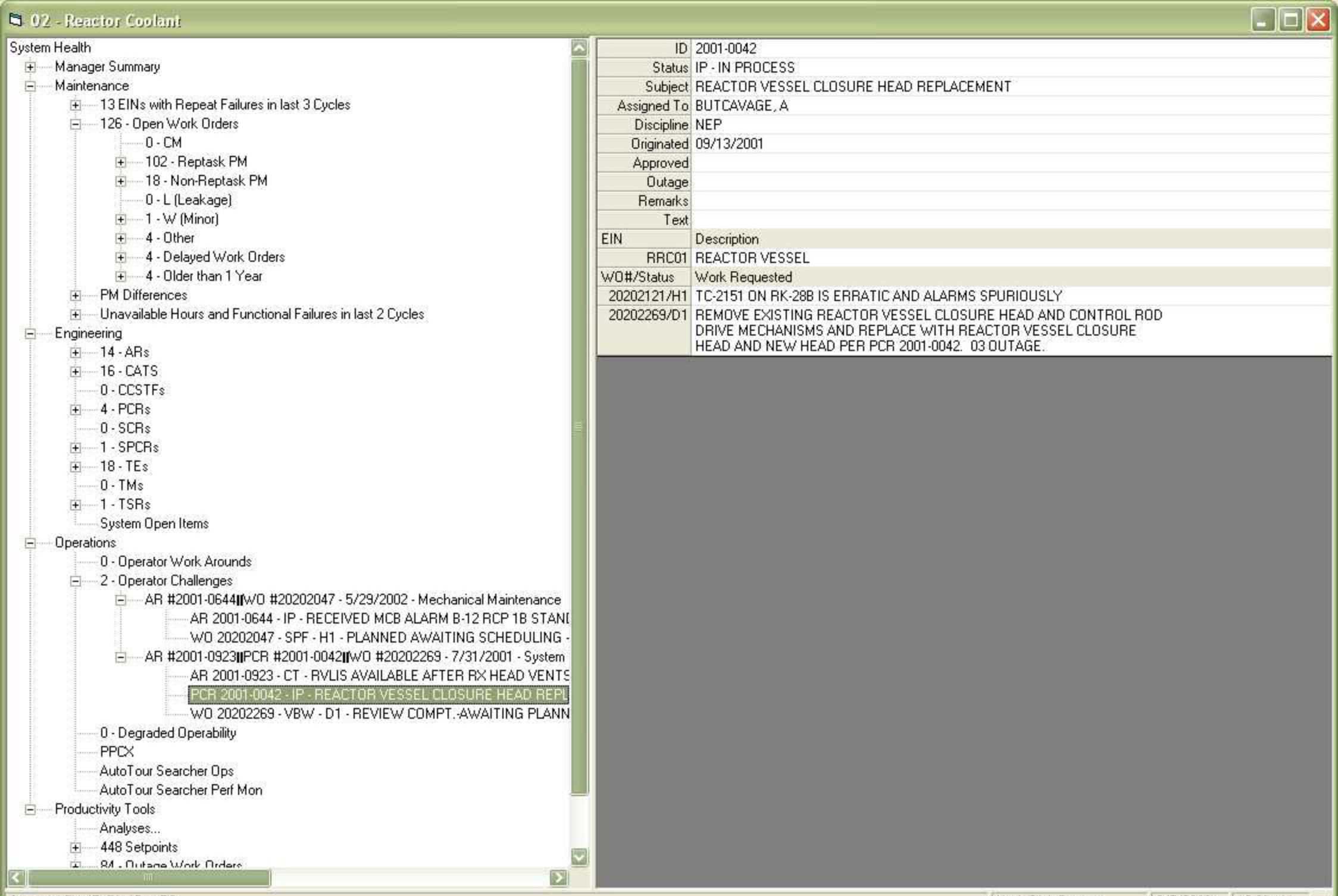
02 - Reactor Coolant
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0 - Degraded Operability
PPCX
AutoTour Searcher Ops
AutoTour Searcher Perf Mon
Productivity Tools
Analyses...
448 Setpoints
84 - Outage Work Orders
ID 2001-0042
Status IP - IN PROCESS
Subject REACTOR VESSEL CLOSURE HEAD REPLACEMENT
Assigned To BUTCAVAGE, A
Discipline NEP
Originated 09/13/2001
Approved
Outage
Remarks
Text
EIN Description
RRC01 REACTOR VESSEL
WO#/Status Work Requested
20202121/H1 TC-2151 ON RK-28B IS ERRATIC AND ALARMS SPURIOUSLY
20202269/D1 REMOVE EXISTING REACTOR VESSEL CLOSURE HEAD AND CONTROL ROD DRIVE MECHANISMS AND REPLACE WITH REACTOR VESSEL CLOSURE HEAD AND NEW HEAD PER PCR 2001-0042. 03 OUTAGE.
Status of CN, IP, BL, IC or EC
NodeClick Bottom
8/5/2003
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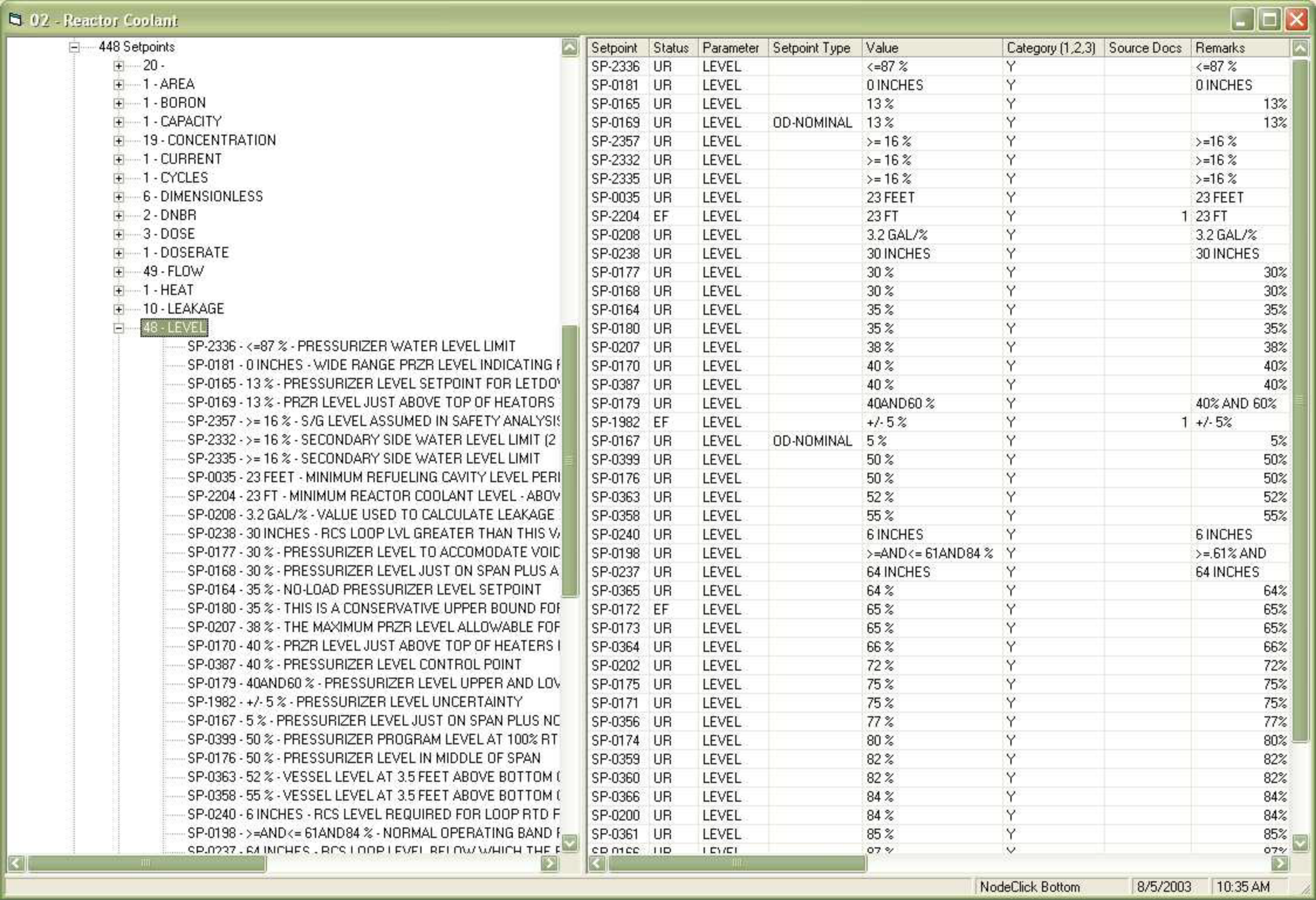
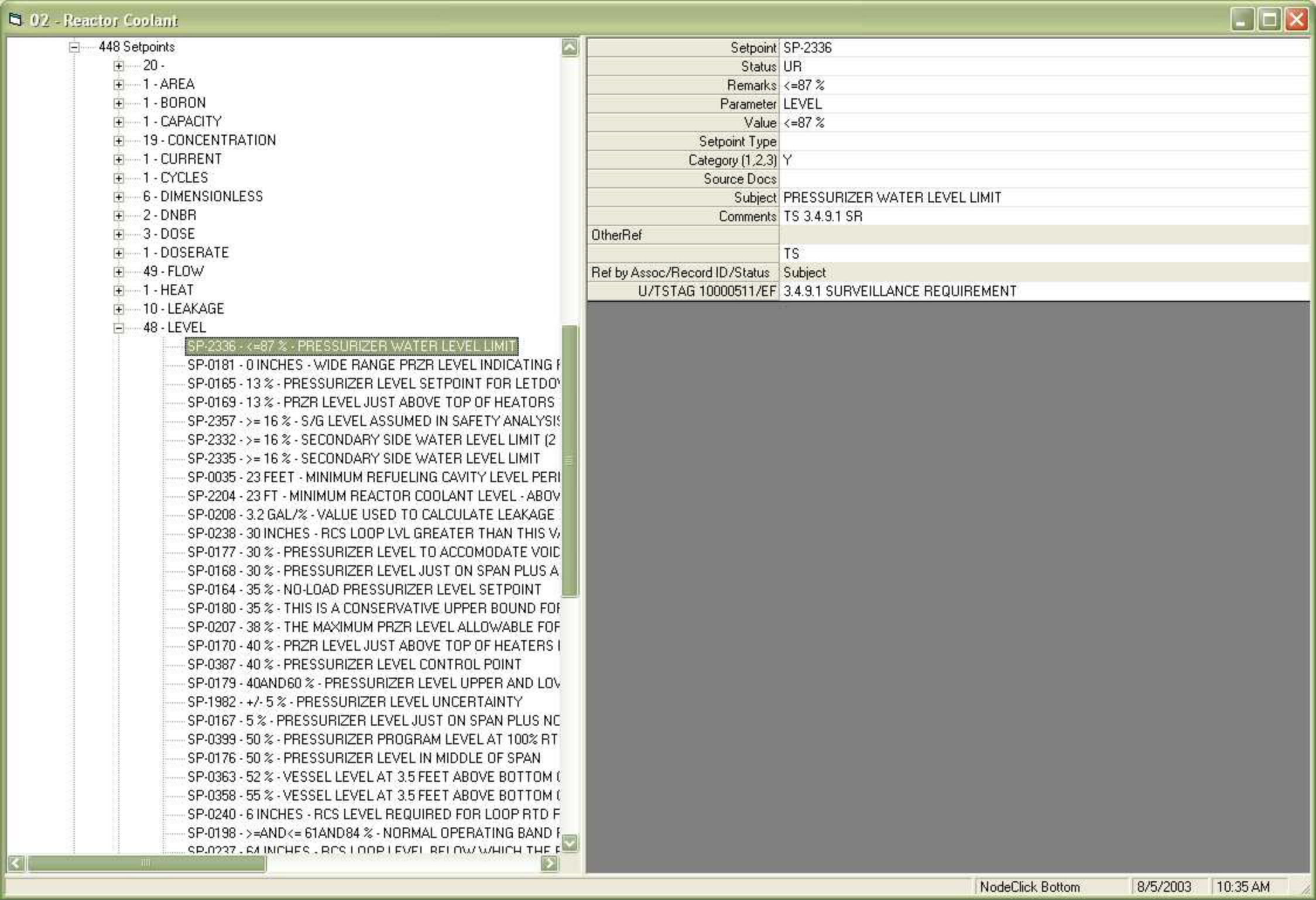


Setpoint	Status	Parameter	Setpoint Type	Value	Category (1,2,3)	Source Docs	Remarks
SP-2336	UR	LEVEL		<=87 %	Y		<=87 %
SP-0181	UR	LEVEL		0 INCHES	Y		0 INCHES
SP-0165	UR	LEVEL		13 %	Y		13%
SP-0169	UR	LEVEL	OD-NOMINAL	13 %	Y		13%
SP-2357	UR	LEVEL		>= 16 %	Y		>=16 %
SP-2332	UR	LEVEL		>= 16 %	Y		>=16 %
SP-2335	UR	LEVEL		>= 16 %	Y		>=16 %
SP-0035	UR	LEVEL		23 FEET	Y		23 FEET
SP-2204	EF	LEVEL		23 FT	Y	1	23 FT
SP-0208	UR	LEVEL		3.2 GAL/%	Y		3.2 GAL/%
SP-0238	UR	LEVEL		30 INCHES	Y		30 INCHES
SP-0177	UR	LEVEL		30 %	Y		30%
SP-0168	UR	LEVEL		30 %	Y		30%
SP-0164	UR	LEVEL		35 %	Y		35%
SP-0180	UR	LEVEL		35 %	Y		35%
SP-0207	UR	LEVEL		38 %	Y		38%
SP-0170	UR	LEVEL		40 %	Y		40%
SP-0387	UR	LEVEL		40 %	Y		40%
SP-0179	UR	LEVEL		40AND60 %	Y		40% AND 60%
SP-1982	EF	LEVEL		+/- 5 %	Y	1	+/- 5%
SP-0167	UR	LEVEL	OD-NOMINAL	5 %	Y		5%
SP-0399	UR	LEVEL		50 %	Y		50%
SP-0176	UR	LEVEL		50 %	Y		50%
SP-0363	UR	LEVEL		52 %	Y		52%
SP-0358	UR	LEVEL		55 %	Y		55%
SP-0240	UR	LEVEL		6 INCHES	Y		6 INCHES
SP-0198	UR	LEVEL		>=AND<= 61AND84 %	Y		>=.61% AND
SP-0237	UR	LEVEL		64 INCHES	Y		64 INCHES
SP-0365	UR	LEVEL		64 %	Y		64%
SP-0172	EF	LEVEL		65 %	Y		65%
SP-0173	UR	LEVEL		65 %	Y		65%
SP-0364	UR	LEVEL		66 %	Y		66%
SP-0202	UR	LEVEL		72 %	Y		72%
SP-0175	UR	LEVEL		75 %	Y		75%
SP-0171	UR	LEVEL		75 %	Y		75%
SP-0356	UR	LEVEL		77 %	Y		77%
SP-0174	UR	LEVEL		80 %	Y		80%
SP-0359	UR	LEVEL		82 %	Y		82%
SP-0360	UR	LEVEL		82 %	Y		82%
SP-0366	UR	LEVEL		84 %	Y		84%
SP-0200	UR	LEVEL		84 %	Y		84%
SP-0361	UR	LEVEL		85 %	Y		85%
SP-0166	UR	LEVEL		87 %	Y		87%


02 - Reactor Coolant
448 Setpoints
20 -
1 - AREA
1 - BORON
1 - CAPACITY
19 - CONCENTRATION
1 - CURRENT
1 - CYCLES
6 - DIMENSIONLESS
2 - DNBR
3 - DOSE
1 - DOSERATE
49 - FLOW
1 - HEAT
10 - LEAKAGE
48 - LEVEL
SP-2336 - <=87 % - PRESSURIZER WATER LEVEL LIMIT
SP-0181 - 0 INCHES - WIDE RANGE PRZR LEVEL INDICATING F
SP-0165 - 13 % - PRESSURIZER LEVEL SETPOINT FOR LETDO
SP-0169 - 13 % - PRZR LEVEL JUST ABOVE TOP OF HEATORS
SP-2357 - >= 16 % - S/G LEVEL ASSUMED IN SAFETY ANALYSI
SP-2332 - >= 16 % - SECONDARY SIDE WATER LEVEL LIMIT (2
SP-2335 - >= 16 % - SECONDARY SIDE WATER LEVEL LIMIT
SP-0035 - 23 FEET - MINIMUM REFUELING CAVITY LEVEL PERI
SP-2204 - 23 FT - MINIMUM REACTOR COOLANT LEVEL - ABOV
SP-0208 - 3.2 GAL/% - VALUE USED TO CALCULATE LEAKAGE
SP-0238 - 30 INCHES - RCS LOOP LVL GREATER THAN THIS V
SP-0177 - 30 % - PRESSURIZER LEVEL TO ACCOMODATE VOID
SP-0168 - 30 % - PRESSURIZER LEVEL JUST ON SPAN PLUS A
SP-0164 - 35 % - NO-LOAD PRESSURIZER LEVEL SETPOINT
SP-0180 - 35 % - THIS IS A CONSERVATIVE UPPER BOUND FOR
SP-0207 - 38 % - THE MAXIMUM PRZR LEVEL ALLOWABLE FOR
SP-0170 - 40 % - PRZR LEVEL JUST ABOVE TOP OF HEATERS
SP-0387 - 40 % - PRESSURIZER LEVEL CONTROL POINT
SP-0179 - 40AND60 % - PRESSURIZER LEVEL UPPER AND LOW
SP-1982 - +/- 5 % - PRESSURIZER LEVEL UNCERTAINTY
SP-0167 - 5 % - PRESSURIZER LEVEL JUST ON SPAN PLUS NO
SP-0399 - 50 % - PRESSURIZER PROGRAM LEVEL AT 100% RT
SP-0176 - 50 % - PRESSURIZER LEVEL IN MIDDLE OF SPAN
SP-0363 - 52 % - VESSEL LEVEL AT 3.5 FEET ABOVE BOTTOM
SP-0358 - 55 % - VESSEL LEVEL AT 3.5 FEET ABOVE BOTTOM
SP-0240 - 6 INCHES - RCS LEVEL REQUIRED FOR LOOP RTD F
SP-0198 - >=AND<= 61AND84 % - NORMAL OPERATING BAND F
Setpoint SP-2336
Status UR
Remarks <=87 %
Parameter LEVEL
Value <=87 %
Setpoint Type
Category (1,2,3) Y
Source Docs
Subject PRESSURIZER WATER LEVEL LIMIT
Comments TS 3.4.9.1 SR
OtherRef
TS
Ref by Assoc/Record ID/Status Subject
U/TSTAG 10000511/EF 3.4.9.1 SURVEILLANCE REQUIREMENT
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8/5/2003
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