BEFORE THE FACT FINDING TASK FORCE

OF THE NUCLEAR REGULATORY COMMISSION

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Re: :

Davis-Besse event :

of June 9, 1985 :

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INTERVIEW OF STEVEN FEASEL

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Interview of STEVEN FEASEL by the Nuclear Regulatory Commission Fact Finding Task Force, taken before me, Anne I. McBrayer, a Notary Public in and for the State of Ohio, at the Site Emergency Operations Center, Davis-Besse Nuclear Plant, Oak Harbor, Ohio, on Wednesday, June 12, 1985, at 11:22 o'clock a.m.

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APPEARANCES:

U.S. Nuclear Regulatory Commission
4340 East West Highway
Bethesda, Maryland 20814
By Mr. Steve Burns,

On behalf of the Nuclear Regulatory Commission.

Shaw, Pittman, Potts & Trowbridge
1800 M Street, N.W.
Washington, D.C. 20036
By Mr. Jay E. Silberg,

On behalf of the Davis-Besse Nuclear Plant.

Members of the Team:
Wayne Lanning
Larry Bell
J. T. Beard
Ernie Rossi

Also Present:
William O'Connor

STEVEN FEASEL

being called as a witness, was interviewed as follows:

EXAMINATION

BY MR. ROSSI:

Q. So we're going to be talking with Steve Feasel, and I assume you have the spelling of his name and so forth.

And, Steve, why don't you just tell us what your position is.

A. I'm an assistant shift supervisor at Davis-Besse. Been licensed for -- with the senior license for about five years.

MR. BURNS: And you'll show on the record Mr. Silberg and Mr. O'Connor, Mr. Silberg with a law firm and Mr. O'Connor of the Toledo Edison staff, are here, and Mr. Feasel has asked that they be present.

BY MR. ROSSI:

Q. Okay. Now, could you start again, you're assistant shift supervisor.

A. Assistant shift supervisor at Davis-Besse. I've been licensed for about five years, a senior license. I held a reactor operator's license for

two years previous to that. Okay.

MR. BEARD: Steve, I think it's important that you realize that we're not here on a witch hunt. We're just trying to understand the event. That's all.

BY MR. ROSSI:

Q. I guess what we did, have done, with all of the people that we've talked to, either in groups or individually, is just started out by asking them to tell us where they were, when they came on shift the day of the event, and then describe what you observed from the time you came on shift and then just walk through the event, and we'll ask guess questions as you go along.

MR. LANNING: We're not going to interrupt him. Just let him go ahead and ask questions at the end?

MR. ROSSI: Well, no, we'll ask questions as we go along. That's what we've done in all other cases. So we'll do it at this time too.

BY MR. ROSSI:

Q. Why don't you tell us when you came in on shift?

A. Okay. I came in on midnight at night.

The plant was at about 90 percent power. All the ICS stations were in automatic with exception of the No. 2 main feed pump, which we had in manual.

They had experienced a few instrument problems on the preceding shift. They had a radiation element for the station vent monitor that was giving them spurious trips.

BY MR. BEARD:

Q. Excuse me, what was that?

A. A radiation monitor for the station vent that had been giving them spurious trips. Other than that, majority of the equipment was normal.

Q. So the only thing that was abnormal of a significant nature was this No. 2 main feed pump that was in manual?

A. That's not an abnormality. It's just something new we were trying on a preceding trip. They had both their feed pumps trip in response to the -- what they believed to be the rapid feedwater reduction circuit. And procedures were changed to run with one of the feed pumps in manual so that it would not see the effects of rapid feedwater reduction.

Q. Okay. With that one exception, the plant

was pretty normal. Pretty steady. You came on at midnight. So I guess the next thing of interest was around 1:30 or so?

A. I'd just come back from the lunch room. I'd taken a break. Came back in. I was walking up by a consoles to see if any recent alarms or anything had come in. And I noted that feedwater was running back. Looked down at the lower panel. I noted that No. 1 main feed pump had tripped. Looked up at the enunciator alarms. I saw feedwater run back in effect. And shortly thereafter, reactor power limited by feedwater alarm came in.

Q. Excuse me. Reactor power limited by feedwater, are you talking about an ICS cross limit?

A. Yes, cross limit alarm. The reactor operators both got up. One of them grabbed the No. 2 main feed pump. Started increasing the speed on it in an attempt to offset the decrease from the No. 1. The other reactor operator went over to the primary side panel and opened the spray valve in an attempt to reduce the pressure surge. RCS pressure was increasing due to the heat up.

Q. Manually opened the pressurizer spray valve?

A. Yes.

BY MR. ROSSI:

Q. Would that have happened automatically without the manual action?

A. Yes, it would have.

Q. So he opened it --

A. Just to get a jump on it.

Q. Okay.

BY MR. BELL:

Q. Well an automatic spray valve come fully open or will it only come open partway?

A. It comes open to about 45 percent.

Q. And he opened it manually to 100 percent?

A. To get more.

Q. And that was his reason for taking the spray valve at manual?

A. Yes. The RCS pressure continued to increase. I believe reactor power decreased to about 80 percent when we finally hit the high pressure trips set points. I immediately grabbed the ATOG procedure off the shelves, and the ROs were going through the immediate operator actions. One of them had tripped the reactor. Verified the rods responded to the trip. Another tripped the turbine.

Verified the turbine control and stop valves had shut.

And then the first guy isolated let down. We then started going through the supplementary actions. I was reading them off, and they were acknowledging them. We got to the supplementary action that -- well, during the supplementary action to verify that feedwater had responded correctly to the trip, we noted everything okay at that point. We went on to verify subcooling margin.

And then the next step is to verify that you're not overheating. We got to that point. We saw that the No. 2 main feed pump speed was decreasing, and we weren't -- the steam generator levels were coming down. Looked up at the center console on the very back and saw that both MSIVs were shut. We figured that at that point, that we'd probably gotten a partial SFRCS actuation.

And I directed the reactor operator to trip SFRCS on low water levels. He went around to the back console and inadvertently got the wrong switches. At that point we didn't know that, but he tripped SFRCS on low steam pressure, one steam generator for each channel.

BY MR. BEARD:

Q. Steve, let me interrupt you. Going back to the MSIV closure part, are you saying that you figured that probably what caused them to close was a partial actuation of the rupture control system?

A. Yeah. And we hadn't seen a complete actuation, you know. The other equipment had not responded. We still had feed valves open. The aux. feed hadn't started. So in the past, past practice has been if you've had a partial actuation, you should give yourself a full actuation. You're going to get it eventually anyhow.

Q. Okay. When you say -- I'm trying to understand what you mean by partial actuation. Okay? Are you talking about one instrument channel may have tripped or are you talking about one actuation channel may have tripped or can you help me understand what you're saying?

A. What normally we see there is you get several half trips in a very short period of time. They don't even necessarily have to be the same parameter. It could be any one of the five monitored parameters that would cause that. Well, in that case, it would only be four parameters,

because loss of four pumps doesn't shut the MSIVs.

So we figured, kind of figured at the time, that's what had occurred, that the MSIVs are a lot quicker responding. They have like a five second response time. And we've seen that in the past.

Q. Okay. Will that partial actuation of the reactor control system cause the MSIVs to close? If that occurs, is that an intended proper response for the rupture control system or is that just something that happens from time to time?

A. That's just something that happens.

Q. Okay. I understand.

BY MR. ROSSI:

Q. And it has happened from time to time in the past? I mean, based on your experience, partial actuations of the SFRCS has caused the MSIVs to close?

A. Yes. And they have --

Q. From time to time in the past?

A. They have implemented some FCRs where they've put in some very minute time delays and the two trips have to be present, you know, simultaneously in order to -- for the MSIVs to see the trip, but apparently -- well, we won't know

until they get a chance to go in and troubleshoot and find out what actually did occur.

BY MR. BEARD:

Q. On the information presented in the control room with regard to actuation of the ruptured control system, I assume there's some enunciators or some lights that would tell you if you had a full actuation?

A. Yes.

Q. Are there also lights for partial actuations?

A. No.

Q. Okay.

A. Excuse me. Yes, there are alarm -- enunciator alarms for half trips. But at that time we didn't see any. And I didn't see the full trip enunciator either.

BY MR. ROSSI:

Q. So you actually saw the MSIVs were closed, and you didn't see either a half trip or a full trip from the SFRCS system?

A. No. The response time of the enunciators is a little bit longer than that of the MSIVs.

Q. Did you see alarms on the SFRCS system

before the RO had gone back and manually pushed buttons?

A. No. I understand, after reviewing the computer alarms, you know, in more detail, that there were some alarms come in on the computer. It's just at that point we hadn't seen them.

Q. I think you were at the point where I believe the RO had gone back and manually actuated the SFRCS with -- well, at the time you didn't know was --

A. Low steam pressure.

Q. -- low steam pressure, but later turned out to be low steam pressure. So as far as you knew at the time you just actuated it?

A. Right. Come back around to the front console. We expected to see, you know, the aux. feedwater system start up and start feeding the steam generators to feed them back up to 46 inches. What we did see was the aux. feed pump turbines start. The valves on the front console, they should have started where each aux. feed pump took steam from its own steam generator and fed water to its own steam generator.

In reality, what we saw was they lined

up to feed the opposite steam generator. I went around -- I was headed back around to the other -- to the back console to see how the steam and stuff was lined up and whether we had a proper SFRCS when Brian noted that he had tripped SFRCS on low steam pressure rather than the low water level.

BY MR. BEARD:

Q. Excuse me, Brian is who?

A. The RO that was actuating SFRCS.

Q. What is his name?

A. Brian Young.

Q. Brian Young. Okay.

A. So Ted ran around the back console --

Q. Excuse me again. Ted?

A. Ted Lehman, the man that was in here previously, ran around to the back console, reset the low steam pressure trips and reactuated SFRCS on low water level. In the meantime, I went on around to the back console to see how the steam and the feedwater stop valves were aligned, and noted that the aux. feedwater stop valves were still shut, and that all four steam valves were open.

At about that time, Brian said that the aux. feed pumps had tripped on overspeed, both

trains. In an attempt to -- we think at the time that perhaps we had confused the logic in SFRCS in an attempt to -- well, first, we tried to reopen the feedwater stop valves and realign the valves ourselves, and they were not responding.

In attempt to reset the logic, I got the keys for the SFRCS cabinets, went back, went to initial bypass and block on all four channels. When I came back around to the front, I was told that the crosstie valves had realigned to the proper steam generators, but the feedwater stop valves were still shut.

Q. By crosstie valves, are you talking about the steam side valves or the water side valves?

A. Water side.

Q. The water side had realigned properly?

A. Yes. The steam side would not have. They don't get a reclose signal for the crossties now. That FCR -- we just did an FCR that changed that.

BY MR. ROSSI:

Q. All four of them are now open?

A. Open. The feedwater stop valves could still not be open from the control room. At that

point Ted directed the equipment operator to get a locked valve key and to manually position those valves. At that point we understood that we were into a loss of all feedwater and that we should make some very active attempts to try to reestablish feedwater to both steam generators. I was directed to go place the start-up feed pump in a standby status and then to proceed to the aux. feed pump room.

BY MR. BEARD:

Q. Excuse me, what do you mean by a standby status? Is that different from get it running?

A. That's get it running. Make it available.

Q. All right.

A. We weren't sure whether we were going to have to start it yet or not, but he wanted it ready.

Q. And this involved, I guess, opening some valves?

A. Right.

Q. Okay.

A. Had to get the suction valve, the discharge valve, and two cooling water valves. There's quite a bit of distance between these. I also had to place the close fuses into the breaker.

We run with a -- since there's no suction for the pump, we run with close power fuses pulled. I went ahead and did that --

BY MR. ROSSI:

Q. Where is that done, the fuses for the breaker?

A. That would be on D2 bus. That's on the No. 2 nigh voltage switch gear, 585 elevation of the turbine building.

BY MR. BEARD:

Q. That's a different location where the valves are?

A. Right.

Q. And you said there's some distance between various of these locations?

A. Yes.

Q. If you did this on a casual basis and not during a drill, on a casual basis, do you have any rough idea what amount of time you talk about to do this under normal situation?

A. When we first went to this where we had to run with our start-up feed pump isolated, we did some tests where we walked through the evolution. And they could do it within 15 to 20 minutes.

Q. Okay.

A. On a continuous basis.

Q. And this situation was a little more than casual so you did it quicker, right?

A. Yes. From that point I went to the aux. feed pump room. The start-up feed pump and No. 2 aux. feed pump sit basically side by side. When I arrived there, there were already two equipment operators in the room attempting to reset the overspeed trip devices. They had said -- they told me that they'd had problems resetting the one on the No. 1 aux. feed pump, and they were trying to get the No. 2.

At that point, I paged the control room, the Gai-Tronics. Told them that -- to start the start-up feed pump and align it to feed the No. 1 steam generator. I then went over in an attempt -- and helped the equipment operators reset the -- or they had the overspeed trip device reset.

They were having troubles breaking it off at seat. It had about a 900 pound steam differential across it. Finally got it broke loose, and they were spinning it up. At that point, I saw that I had flow on the start-up feed pump. I knew

that with the aux. feed pump running that we should have flow to both steam generators.

So I went back to the control room and directed them to continue working to get the No. 1 aux. feed pump running. Got back up to the control room. They were reestablishing levels in the -- in both steam generators. They were feeding the No. 1 steam generator with the start-up feed pump and the No. 2 steam generator with the auxiliary feed pump.

I went over and looked at the primary side. I noted that we were cooling down at a very quick rate, and decided at that time we should piggyback HPI -- LPI to HPI.

BY MR. BEARD:

Q. Excuse me. You said you noticed on the primary side that you were cooling down at a quick rate?

A. Yes, in response to --

Q. And you decided that what you ought to do is to align the high pressure injection as a piggyback on the low pressure injection?

A. The LPI as piggyback to the HPI, yes.

Q. Okay. Vice versa. But get the two aligned that way?

A. Right.
Q. Where was pressure in this situation?
A. It was sitting at about 17, 1750 pounds. And it was decreasing fairly quickly in response to the cooldown.
Q. And this cooldown was due to the steam generator?
A. Being refilled, yes.
Q. Okay.
BY MR. LANNING:
Q. At what pressure was safety injection automatically initiated?
A. 1650. And that was why we elected to piggyback in an attempt to not compound the casualty any further by getting unnecessary SFAS actuation.
BY MR. BEARD:
Q. Why would it be unnecessary?
A. We knew that as soon as the level was reestablished in the steam generator, that the cooldown rate would slow down. As you're putting water in, the system goes back to saturation, and with four reactor coolant pumps running, the RCS is going to see it. And, you know, was just going to be a momentary thing until we got everything

repressurized.

Q. Would it have done anything adverse to either safety or plant operations to have allowed the thing to automatically actuate?

A. We had a fairly high pressurizer level at that time anyhow. We had -- we had heated up a considerable amount, and I believe pressurizer level was pushing 300 inches when I came back in, and it was coming down, but I don't think the SFAS would have been desirable. We would have -- it would have confused things even more. It would have made the recovery -- we were already on the road to recovery. It was just a matter of time from that point on.

Q. Let me see if I can get the grasp of the situation. I think you said that the reactor coolant system were slow -- were cooling down fast. The pressure was low in coming down fast. Where were you in terms of --

A. Subcooling margin.

Q. Yes, subcooling.

A. We had in excess of -- I think at that point we had 50 degrees or better.

Q. Okay. Now, is there any trigger point at which the subcooling falls blow a certain level you

do things or --

A. Yes.

Q. Can you talk about that area a little bit?

A. Yes, loss of subcooling margin is when the T sat meters indicate a negative margin or when the manual plot shows that you've got less than 20 degrees margin.

Q. So the meter indicates negative or a manual computation of temperatures and pressures indicates less than 20, is that what you said?

A. Yes.

Q. Okay. Was the saturation meter indicating that you were getting -- going in that direction or was it steady or going up or do you remember?

A. Subcooling was -- subcooling margin was actually increasing as we were cooling down.

BY MR. ROSSI:

Q. Now, what do you do if the T sat meter indicates a negative margin or --

A. Okay. If that be the case, we have specific rules in the ATOG, loss of subcooled margin, you initiate full make-up flow water suction from the BWST. You start both make-up pumps. You verify M32. That is, the make-up valve is fully open and

you shift suction to the BWST. You also actuate full HPI. You start both HPI pumps. You fully open HP2A, 2B, 2C, 2D.

BY MR. BEARD:

Q. The valves you identified, were they the discharge valves or injection valves, what you are calling make-up valves?

A. Yes. At that point you will balance the HPI flows to keep the high flow lines within one and a half times that of the low flow line when you're not allowed to throttle anything other than the high flow line and you're not allowed to throttle it below the limits given on a figure 3 that's in our curve book.

BY MR. LANNING:

Q. What's the shut-off head for your HPI problems?

A. About 1650. Maybe a little bit better than that, 1680 perhaps. At that, you would also have to trip all your reactor coolant pumps, and you would also have to raise steam generator levels in full continuous flow to -- if the SFAS is not actuated to 46 inches or 50 inches, depending on which feed pump is feeding --

BY MR. BEARD:

Q. You said SFAS. That's different from SFRCS?

A. SFRCS.

Q. ESF actuation system?

A. Yes. Okay. SFAS is actuated, you have to raise steam generator levels to 1126 inches or 130, depending on which feed pump's feeding the steam generator.

Q. So you're really saying that the things that you would do in the event you lost subcooling would be basically do everything you could for make-up. Do everything you could for high pressure injection?

A. Right.

Q. Does that procedure on subcooling involve the piggyback arrangement?

A. No.

Q. Okay.

A. Piggyback is up to the operator's discretion. Piggyback is there to assist you in maintaining pressurizer levels or pressure for any condition other than a large break located where you have LPI flow into the core and a suction from the

BWST.

Q. As an operator, what's the advantage of the piggyback arrangement? Why would you want to use it?

A. I get an extra 200 pounds discharge head.

Q. So you can inject earlier in the pressure transit?

A. Right. And at a higher pressure than the low pressure trips at that point.

BY MR. ROSSI:

Q. Let's see. At some point in time you got the start-up feed pump into service and feeding one steam generator.

A. Right.

Q. Did you notice anything about the use of the start-up feed pump for the second steam generator?

A. When we originally set out, we weren't sure which aux. feed waters we'd get back. The ROs were directed to line it up to feed either steam generator, but not to feed. When we got down there and we were having troubles with the No. 1 auxiliary feed pump and it looked like the No. 2 was going to come back to us, that's when they were directed to

feed the No. 1 steam generator.

Q. And they did that from the control room?

A. Right. They can override the SFRCS on the start-up valve and also on the stop valve, the feedwater stop valve. And they did that for both sides. However, I don't believe they opened -- they opened the start-up valve only for the No. 1 side.

Q. Okay. So you weren't aware of an attempt to open it for the No. 2 steam generator?

A. I know that they had reset it for the No. 2, but I didn't -- I don't -- I didn't know that there was any attempt made to open it to the No. 2 side.

BY MR. BEARD:

Q. While we're back to that time frame, can we go back to just prior when you got some feedwater going and talk a little bit about the primary side of the reactor. Can you tell us anything you remember about relating to relief valves?

MR. ROSSI: PORV.

Q. PORVs?

A. Oh, when I came back into the control room, I was told by one of the reactor operators that the PORV had lifted several times, and that at one point

he had seen RCS pressure to decrease, and he had closed the block valve in response to that.

Q. Did he indicate to you any feeling of whether he thought the PORV was operating improperly or abnormally?

A. I know the first several lifts he saw, the RCS pressure was high. He was a little concerned at the time that the PORV may have stuck open, and that's why he closed the block valve in response to that.

Q. Okay.

A. Then we also noted that the quench tank had -- pressure had gone up to 45 pounds, but it was holding pressure, so we were fairly well convinced that we hadn't ruptured.

Q. That's at the time the block valve was closed then?

A. Yes.

Q. That you were at 45 pounds?

A. Yes.

Q. And normal pressure on the relief tank is what?

A. About 25.

Q. And the ruptured disk is about 100 roughly?

A. Yes.

Q. Okay. So you were like halfway there, a quarter of the way there or something?

A. Yes. Later on as we had more time, we unisolated the quench tank pump and went through the procedure to cool down the quench tank. And we cooled it down to 125 degrees. I think when we got around to it, the temperature was up about 145 degrees or thereabouts.

Q. I guess we're at the point where you've gotten feed return?

A. Right. At that point we had feedwater to both steam generators. We had levels greater than 46 inches in both steam generators. Steam pressure was back. T ave was back into the normal post trip response of about 547 degrees. It was just a little low. We had control of the secondary side on the atmospheric vent valves. Went back. At that point we decided we should go back through all our supplementary actions, take our time, make sure that we had everything covered.

We were going through the supplementary actions, got to where it says verify the reactor is tripped and all rods are on the bottom and power is

decreasing on the intermediate range. Noted that already off scale on the intermediate range.

Q. Off scale low?

A. Yes, off scale low. The high volts had come on for the source range, but I didn't have source range indication.

Q. What do you mean by you didn't have it?

A. One channel had been inoperable prior to the trip, NI-1. The other channeling was reading zero.

Q. So it was off scale low?

A. Off scale low. At that point I directed the reactor operator to start emergency boration in ordinance with tech specs. I also called Chem Lab to get a bore on the sample so we could do a shutdown margin.

Q. You had confirmed that all rods were bottomed?

A. Yes. We redid that again as part of our reverifying the supplementaries. We also took the -- all the attachments for SFRCS trip, went through and verified that all the valves were in the correct position. We noted at that point that all four steam valves to the aux. feed pumps were open.

We had noted that earlier, but -- and they -- they remained that way. We elected at that time not to close the two that were supposed to be closed. The systems were working correctly, and we didn't want to take a chance of goofing something up.

We went through the flow charts to see if there was anything more that we should have done in the overheating section. And the only other thing we noted was we could have gone to a two pump -- two reactor coolant pump combination, and decided that since we had good cooling and we didn't feel that we were in any further jeopardy, that we'd leave all four pumps run.

At that point, we felt justified in going to the last step of the supplementary actions that said go to trip recovery, and then that way we could start dealing with some of the conditions on the secondary side, get back in and start taking care of our turbine.

Q. During the course of this, was there any equipment either out of service or misbehaved that you would strongly really like to have around? I'll suggest one answer is maybe the safety parameter display system. Are there things of that nature

that you could tell us about?

A. Yeah. A list was made of things that we would have liked to have had, and --

BY MR. ROSSI:

Q. You mean after this event you made a list of things that you would have liked to have had?

A. Yes.

BY MR. BEARD:

Q. Can you tell us some of those?

A. We had problems -- obviously, we would have liked to have had our aux. feedwater system fully operational. We'd like to had the start-up feed pump available, but that's a problem they'll have to resolve with engineering.

The safety parameter display system would have made it much easier to track the incident, although, you know, we'd been doing it for years before that without it. And it's one of the drills that they run time and time and time again on you. It's a stimulator.

So it's a pretty -- it's a drill that we all are pretty familiar with. I guess it's considered one of the worst transients that a B&W plant can have, and they really drill it into you.

It would have been nice if some of our secondary equipment would have responded.

The main turbine did not go in gear. One of the main feed pumps did not go on gear. Needed manual assistance. During that -- the time frame, the recovery, the equipment operators were working on getting the auxiliary boiler started up and they were having troubles with level trips.

They were also having troubles with maintaining sufficient suction pressure to the aux. boiler feed pump. The pegging steam to its dearator was not controlling properly.

Q. If you'd have gotten -- help me understand. The reason you would want aux. steam is what?

A. At that particular point, we didn't absolutely have to have it, but one of the things that you need to be considering is getting the main condenser back, redrawing a vacuum. You have a limited supply of water in the condensate storage tanks. And the sooner you can get off the atmospheric tanks and get back to your condenser, the better off you are.

Q. So it wasn't an immediate concern?

A. No, it wasn't. Although if we had the

condenser and we had steam available, we could have -- would have been able to bring up the No. 2 main feed pump again and had an additional back up.

I think I have a partial listing of -- of course, we would have liked to have had our source range indications, both of them, available. Also during the -- during the transient, we were plagued by control room ventilation tripping.

Q. Control room ventilation?

A. Tripping again on --

BY MR. ROSSI:

Q. The radiation monitor?

A. The radiation monitor.

BY MR. BEARD:

Q. That happened during the event?

A. Yes.

Q. Did that confuse things or --

A. No. It does confuse things because you have to go back in the back to reset it and you also have to reestablish ventilation. It's just one more thing to do.

BY MR. LANNING:

Q. Let me interrupt a second. I understand we have a concern about concluding this interview at

noon?

MR. ROSSI: What is your choice? Do you want to break now or continue?

MR. O'CONNOR: It's up to him.

MR. ROSSI: There's no problems continuing with him if he wants to.

A. I'm feeling just fine. I got enough adrenaline, I don't think I'll fall asleep on you.

MR. BEARD: We didn't want to violate your requirements here.

MR. BELL: What about your administrative requirements?

MR. O'CONNOR: If we were in mode 1, I wouldn't extend it, but we're in mode 5. He shouldn't be more than twelve hours in one day, but I think we can proceed.

MR. BEARD: I think we're only talking a few minutes. We're not talking about hours.

THE WITNESS: I'd just as soon conclude.

BY MR. ROSSI:

Q. In the SFRCS, can you tell us how long that had been out of service?

A. We had had it on, often, on through the weekend. That had been very erratic. The lines

didn't necessarily always agree with where they should be, and I guess they're getting some sort of noise into the system, and all of a sudden they draw a line instead of a dot.

The system probably could have been activated, and we may have been able to have gotten some use out of it, but since it was already off and we knew where the transient was going, it would have just been one more thing that we would have had to have done. And everybody was really busy.

BY MR. BEARD:

Q. What about the acoustic monitors for the PORV, were they used at all or can you talk about those?

A. They were available. I was outside of the control room at that time, but I understand they worked just fine.

Q. Did they indicate that the PORV was functioning properly or that it was open when it should have been closed or do you remember that?

A. I couldn't say for sure. I was outside at that -- when the PORV was lifting and --

Q. No problem. No problem. Let me ask you one question about the -- you've been through a

transient here. You've recovered. You got good core cooling and steam generator levels and this, that and the other. What was your feeling with regard to the -- what you had been through in terms of severity of it? How would you assess that?

A. There was definitely some adrenaline flowing. We -- you know, we've always been trained that, you know, loss of all feedwater is one of the most severe accidents that can occur to a once-through steam generator. There was a lot of concern. Ted and I discussed, even though we were recovered, we're still a little bit shaky.

We were having a little bit of -- we had eventually got everything to control properly that we were using, but the No. 2 aux. feed pump was still -- excuse me. The No. 1 aux. feed pump was still giving them grief, and they were controlling that locally at the trip throttle valve and just windmilling it.

At that point, there was some discussion as to, sure, it would be nice to get the ECC manned and the TSC manned so that --

Q. Excuse me, ECC and TSC?

A. The emergency control center and the

technical support center.

Q. You're saying it would have been nice to have those manned. You mean activate those centers to have that support, is that what you mean?

A. Not necessarily to activate them, but to get people out there that could be kind of looking over our shoulders, and if things deteriorated, they'd be there.

Q. So it sounds like what you're saying is you've been through a hard spot. You've gotten over the worst of it you hope, but your concern was primarily from some follow-up thing that it could deteriorate again?

A. Right.

Q. I see.

A. And that's why we -- Ted elected to declare the unusual event, and the response that we got to that was just phenomenal. There were people coming out of the woodwork. Within what seemed like a very few short minutes, the op supervisor showed up, followed by Bill O'Connor, Steve Quennoz, Don Lee. Mr. Crouse showed up in the control room.

Next thing I knew, I had C&HP coverage. I had a lot of I&C people coming in and some mechanics

people. We had real good response to the unusual event. And --

Q. When you had all these people here, who was really -- I don't mean on paper now, but in a functional sense, who's running the show?

A. The shift supervisor and the STA are -- once things get to that point, they're in the background monitoring the whole situation, making sure that nothing goes on. As the assistant shift supervisor, I watch over the ROs and assist on the back panel anyplace that I can where they shouldn't be leaving their controls. With the ops engineer and plant manager in the control room, you know, they're looking over their shoulder and making sure that we've covered everything.

BY MR. ROSSI:

Q. When you declare an unusual event at your plant, do you normally get -- this is the normal response that you have to an unusual event, these people come in, or were there more people that came in?

A. The unusual event classification leaves it up to the shift supervisor what type of response he wants. If he wants a full response, he'll get it.

If he just needs -- if he just needs an electrician, you know, he can put that right on the message and say, you know, I've had an unusual event. I need an electrician.

Q. And that's all he'll get for that. So it can be a wide variety of responses at the plant for the unusual event?

A. That's true.

BY MR. LANNING:

Q. You were discussing a list that had been compiled after the event, and you've been referring to some -- what appears to be some notes. Were those prepared by you for your own personal information or --

A. No. These were prepared by the shift supervisor and the ops engineer, sat down and, you know, as we were going through things, anything that came up that was giving us grief, they put it on their list. And I might also add that they also elected to call out the whole day shift operations department to assist in reestablishing a condenser vacuum.

MR. BEARD: They being?

BY MR. LANNING:

Q. Excuse me a second. So this paper you're referring to is something you did during debriefing after the event with all the operations?

A. No, it was a list that they were making ongoing. As the problems arose, they were trying to get the proper maintenance response to the problems as they occurred.

MR. O'CONNOR: Am I allowed to talk?

MR. BEARD: No.

MR. BURNS: Well, you might.

MR. BEARD: Well, I --

MR. BURNS: Let's go off the record.

MR. LANNING: Let's go off the record.

(Discussion off the record.)

(Record read back as requested.)

MR. ROSSI: Why don't we go back on the record and let me just say that we decided from a procedural standpoint that for these interviews --

MR. BEARD: Let me make a comment about --

MR. ROSSI: Let's go off the record a second again.

(Discussion off the record.)

MR. ROSSI: Let's go back on the record, and I'll explain that for the record.

For the record we've discussed whether others in the room that aren't being interviewed should clarity things at this point. And the team has concluded that we will not do that. That we are intending to interview a large number of people, and that clarifications will come out in those interviews.

BY MR. LANNING:

Q. Back to your list, Steve. Would you be willing to make available a copy of this for the fact finding team?

A. When I leave here you can have this one.

MR. LANNING: Okay.

BY MR. BEARD:

Q. Can I ask a question about -- you're referring to some notes there, several pages there. Can you describe what the other pages are except that last page which appears to be the list?

A. Being a third shift worker, I have troubles with times, and dates so I brought a couple pages out of the unit log in case I needed something to refer to. Just xerox copies.

Q. They're just pages out of the plant log?

A. Yes, sir. And also I brought along a copy

of the sequence of events summary. I'm sure you gentlemen already have one of those.

BY MR. LANNING:

Q. A couple of times you referred to an alarm printout. Is this an alarm printout?

A. Yes, sir, it is.

Q. Similar to what you were referring to?

A. Yes, sir.

Q. I guess I want to include this as part of the record. And this is a xerox copy of the printout from the alarm printer that's located in the control room?

A. Right. Thank you.

MR. BURNS: Wayne, where did you get that from?

MR. SILBERG: Excuse me, may we go off the record a second?

(Discussion off the record.)

- - - - -

Thereupon, Feasel Exhibit Nos. 1 and 2 were marked for purposes of identification.

- - - - -

MR. ROSSI: Exhibit 1 is a list of

equipment problems from the event obtained from Mr. Feasel. And Exhibit 2 is a xerox copy of the alarm printout for the times around the period covering the event. Okay. Now, we can proceed.

BY MR. BURNS:

Q. Mr. Feasel, did you prepare Exhibit 1?

A. No, I didn't.

Q. Do you know who prepared Exhibit 1?

A. It was a list compiled by the ops engineer and station management during the event.

MR. ROSSI: Okay. Who has questions now?

BY MR. BEARD:

Q. I guess I'd like to ask one, Steve. Is there anything about the event that you want to tell us that may be tangible or intangible or your gut reaction related to the people that you had working for you, related to people above you, related to general plant conditions or anything at all about the event you'd like for us to be aware of?

A. I'd just like to say that it was probably one of the hardest problems that we've ever had to deal with here. The people that were involved I think did an outstanding job. They were able to get cooling water into the steam generators in a very

timely fashion considering the number of problems they were dealing with.

I'm pretty proud of the people that I work with. I'd also like to thank the people that came in to assist us. We had a -- even after we recovered the steam generators, we still had a lot of work to do to get vacuum back in the condenser. I really appreciated the shift that came on to help.

BY MR. BELL:

Q. I've got about five short questions that shouldn't take more than five minutes hopefully. The decision to piggyback low pressure injection to high pressure injection was made solely over concern of the pressure reduction on the reactor trip, not as a concern for core cooling?

A. That's trud.

Q. Okay. The next question, are the main steam isolation valves air operated and will they fill closed on a loss of air?

A. They have an air and a nitrogen back up. They have a 2,000 pound nitrogen bottle with a check valve in the line so that the nitrogen wouldn't be affected by a loss of air. And that nitrogen should be sufficient to keep them available for quite

sometime.

BY MR. ROSSI:

Q. The nitrogen is used to hold them open or to close them when they have to close?

A. Depending on the way the solenoids -- there's five solenoid valves. It's a pretty complex arrangement, but depending on how those solenoids are vented determines where the nitrogen goes.

BY MR. BEARD:

Q. If you lose air and nitrogen, where will the valve go?

A. They'll go shut.

MR. ROSSI: That's the question then.

BY MR. BELL:

Q. Okay. How did you determine or who determined it was safe to reopen the power operated relief block valve?

A. I was out of the control room at that time. I don't know.

Q. Other than possibly the rapid feedwater reduction feature of the integrated control system, did the ICS perform correctly during this event?

A. The ICS performed admirably. The runback was going by the numbers, and --

Q. Okay. After you reestablished feedwater flow and the plant had returned almost to normal condition, you were removing decay heat with the atmospheric vents?

A. Yes.

Q. Were they under control of the ICS and did the ICS operate correctly?

A. They were under operating control. They had control of the atmospheric vents.

MR. BELL: That's all I had. Dr. Rossi.

BY MR. BEARD:

Q. I did have one. Prior to the events you said the decision had been made to operate with one main feed pump in automatic and one in manual. Do you remember who made the decision as to which would be which or anything about why it was selected to be the way it was?

A. The best case for us post trip is to since our auxiliary steam header comes off the No. 1 line and our -- to kind of balance this load between the two steam lines, they -- I believe that's what made them decide to use the No. 2.

Q. In manual?

A. In manual in the event that we saw a

recurrence where rapid feedwater reduction were to trip the feed pump, we'd still have the ideal feed pump running, the one that would balance out the steam pumps at best.

Q. I see. I was thinking if it was an attempt to avoid a problem with one of the feed pumps, my understanding at this point in time is the problem had only occurred in automatic, and it had only been experienced on the No. 1 pump. And then the decision was made to leave No. 1 in automatic and No. 2 would be put in manual.

So I was trying to understand if the intent was to avoid a problem, it would have seemed that maybe one would have made the opposite selection. But I guess I hear you saying it was having more to do with balancing steam loads?

A. I think that's where the actual -- it's normal post trip for us if -- when it comes time to shut down one of the feed pumps we always shut down the No. 1 if the No. 2 is available just to balance steam loads. To get a -- I guess I didn't understand the first part of what you were saying there as far as --

BY MR. ROSSI:

Q. Do you want to just -- maybe I can just ask a question. Had they had problems with both main feed pumps in the past or only one of them?

A. There were several feed pump problems. On the trip that we had approximately a week ago, both main feed pumps tripped. And they attributed that to the rapid feedwater reduction circuit increasing the speed fast enough that it could have conceivably picked up a high discharge pressure trip which would trip both main feed pumps.

MR. BEARD: I see.

A. There was another problem with the thrust bearing wear circuit associated with just the No. 1 main feed pump. They had the vendor come in and work on the system. And they had thought -- they were fairly confident they had that problem ironed out.

MR. BELL: One final question. If the main turbine is tripped, are the steam headers cross-connected?

A. No.

MR. BELL: Okay.

MR. BEARD: I have no further questions.

MR. ROSSI: Do you have anything more,

Wayne?

MR. LANNING: No.

MR. ROSSI: I don't have anything more.

MR. BEARD: Certainly want to thank you, Steve.

THE WITNESS: Well, I appreciate your consideration.

MR. ROSSI: Thank you very much.

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Thereupon, the interview was concluded at 12:29 o'clock p.m.

- - - - -

CERTIFICATE

I, Anne I. McBrayer, a Registered Professional Reporter and Notary Public in and for the State of Ohio, do hereby certify that I took the interview of Steven Feasel and that the foregoing transcript of such proceedings is a full, true and correct transcript of my stenotyp notes as so taken.

I do further certify that I was called there in the capacity of a Court Reporter, and am not otherwise interested in this proceeding.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal of office at Columbus, Ohio, on this 14th day of June, 1985.

Anne I. McBrayer

ANNE I. McBRAYER, RPR and
Notary Public in and for the
State of Ohio.

My Commission expires February 3, 1988.

1102.03

EXHIBIT

Fease 1-1

List of problems page 1

MFP 1 trip — post trip review 7253 rpm prior to trip ?
runback
RCS hi press trip

anamalies :

No SPDS
MSIVs closed before SFRCS ? per T. Lehra
PORV lifted on high RC press
AFP didn't initiate, both tripped after ~15 sec
AFP 1-1 controlled only local via TTV ~~pistol grip~~ ineffective
AFW transfer to SW AFP 1-2 - pistol grip manual
2 oil pumps running on 1-1 MFP
→ No NIs
→ CTRM vent (RE4598A spiking) trip, 4th time in 24 hours.
Deerator high level trip
AFG08, 579 handcranked open { AFG08 motor failed on seat-torque switch
All AFPT steam supplies open
→ SG FW vlv 1-2 won't open SP7A
→ Pegging stm
T-G didn't go on gear. Fuses blow
MS 840 stuck open - can't move with bar
OTSG evaluation (T.S.-?)
HPI injection while piggybacked ? No one saw flow
Trip throttle vlvs wouldn't hold reset - kept tripping
Most Aux boiler indication oos.
Safety on SG-1 stuck down to 900 #
Errors in M050 and M-050A

ICS increased FW demand and caused MFP 1-1 to trip
(with 1-2 in manual, MFP 1-1 tried to carry everything)
SP13A2 positioner broken (TPV) — also yoke broken

23:34:38	CONT	X955	TREND RECORDER OUT 06		
23:35:08	CONT	X955	TREND RECORDER OUT 06		
23:35:38	CONT	X955	TREND RECORDER OUT 06		
23:35:43	NORM	T801	RCP 1-2 DISCH CLG WR TEMP,RC4B4	562.32	562.71
23:36: 8	CONT	X955	TREND RECORDER OUT 06		
23:36:13	HIGH	T801	RCP 1-2 DISCH CLG WR TEMP,RC4B4	562.98	562.71
23:36:16	CONT	L651	MFPT 1 DRN LVL		NORM
23:36:26	LOW	T351	CRD VENT FAN IN TEMP ,9185E	49.80	60.00
23:36:43	NORM	T801	RCP 1-2 DISCH CLG WR TEMP,RC4B4	562.65	562.71
23:37:43	HIGH	T801	RCP 1-2 DISCH CLG WR TEMP,RC4B4	562.98	562.71
23:38:13	NORM	T801	RCP 1-2 DISCH CLG WR TEMP,RC4B4	562.68	562.71
23:38:38	CONT	X955	TREND RECORDER OUT 06		
23:38:43	HIGH	T801	RCP 1-2 DISCH CLG WR TEMP,RC4B4	563.23	562.71
23:39:43	CONT	X955	TREND RECORDER OUT 06		
23:40:34	CONT	X955	TREND RECORDER OUT 06		
23:41:01	CONT	L459	HP FW HTR 1-5 LVL		LOW
23:41: 4	CONT	X955	TREND RECORDER OUT 06		
23:41:23	CONT	L459	HP FW HTR 1-5 LVL		NORM
23:41:33	CONT	X955	TREND RECORDER OUT 06		
23:42: 3	CONT	X955	TREND RECORDER OUT 06		
23:45: 3	CONT	X955	TREND RECORDER OUT 06		
23:45:05	CONT	L459	HP FW HTR 1-5 LVL		LOW
23:45:30	CONT	L459	HP FW HTR 1-5 LVL		NORM
23:46:39	CONT	X955	TREND RECORDER OUT 06		
23:47:38	CONT	X955	TREND RECORDER OUT 06		
23:48: 9	CONT	X955	TREND RECORDER OUT 06		
23:49:01	CONT	L459	HP FW HTR 1-5 LVL		LOW
23:49: 9	CONT	X955	TREND RECORDER OUT 06		
23:49:26	CONT	L459	HP FW HTR 1-5 LVL		NORM
23:50:39	CONT	X955	TREND RECORDER OUT 06		
23:52:53	CONT	L459	HP FW HTR 1-5 LVL		LOW
23:53:10	CONT	L459	HP FW HTR 1-5 LVL		NORM
23:53:50	CONT	L651	MFPT 1 DRN LVL		HIGH
23:54:38	CONT	X955	TREND RECORDER OUT 06		
23:55: 3	CONT	X955	TREND RECORDER OUT 06		
23:55:38	CONT	X955	TREND RECORDER OUT 06		
23:57: 8	CONT	X955	TREND RECORDER OUT 06		
23:58:11	CONT	L591	LP FW HTR 2-2 LVL		NORM
23:59: 9	CONT	X955	TREND RECORDER OUT 06		
00:00:15	CONT	L591	LP FW HTR 2-2 LVL		LOW
0: 0:39	CONT	X955	TREND RECORDER OUT 06		
0: 1: 4	CONT	X955	TREND RECORDER OUT 06		

CURRENT DATE IS: JUNE, 9 1985

00:01:36	CONT	L651	MFPT 1 DRN LVL		NORM
0: 2: 9	CONT	X955	TREND RECORDER OUT 06		
00:02:14	NORM	T801	RCP 1-2 DISCH CLG WR TEMP,RC4B4	562.65	562.72
0: 2:34	CONT	X955	TREND RECORDER OUT 06		
0: 3: 4	CONT	X955	TREND RECORDER OUT 06		

* 0: 3:58 6/ 9/1985 - DATE **********************

* 0: 3:59 CHECKPOINT FILE 2 UPDATED

* 0: 3:59 CHECKPOINT FILE 1 UPDATED

0: 3:48	CONT	X955	TREND RECORDER OUT 06		
0: 4: 3	CONT	X955	TREND RECORDER OUT 06		
0: 5: 3	CONT	X955	TREND RECORDER OUT 06		
0: 5:38	CONT	X955	TREND RECORDER OUT 06		
0: 6:38	CONT	X955	TREND RECORDER OUT 06		
0: 7: 3	CONT	X955	TREND RECORDER OUT 06		
00:08:33	CONT	L459	HP FW HTR 1-5 LVL		LOW
0: 8:39	CONT	X955	TREND RECORDER OUT 06		
00:08:51	CONT	L459	HP FW HTR 1-5 LVL		NORM
0:10:39	CONT	X955	TREND RECORDER OUT 06		
0:12: 9	CONT	X955	TREND RECORDER OUT 06		

STARTING 1621 HRS 6-8-85 thru 0900 hrs 6-9-85 AAW

GIVEN TO W. SHAFER 6/12/85

EXHIBIT

Feasel-2

```
 0:13: 3 CONT X955  TREND RECORDER OUT 06
 0:16:40 CONT X955  TREND RECORDER OUT 06
00:17:39 CONT L651  MFPT 1 DRN LVL                                    HIGH
 0:17:39 CONT X955  TREND RECORDER OUT 06
00:20:59 CONT Q975  UNIT INSTR AIR DRYERS                             TRBL
00:21:00 CONT Q975  UNIT INSTR AIR DRYERS                             NORM
00:23:27 NORM T351  CRD VENT FAN IN TEMP ,9185E          138.72         160.00
 0:24:35 CONT X955  TREND RECORDER OUT 06
00:25:03 CONT L459  HP FW HTR 1-5 LVL                                 LOW
00:25:22 CONT L459  HP FW HTR 1-5 LVL                                 NORM
00:25:27 LOW  T351  CRD VENT FAN IN TEMP ,9185E           49.80          60.00
 0:25:35 CONT X955  TREND RECORDER OUT 06
 0:26: 5 CONT X955  TREND RECORDER OUT 06
 0:26:35 CONT X955  TREND RECORDER OUT 06
 0:27: 5 CONT X955  TREND RECORDER OUT 06
 0:27:55 CONT X955  TREND RECORDER OUT 06
 0:29:36 CONT X955  TREND RECORDER OUT 06
00:30:39 CONT L651  MFPT 1 DRN LVL                                    NORM
 0:32: 6 CONT X955  TREND RECORDER OUT 06
00:32:28 NORM T351  CRD VENT FAN IN TEMP ,9185E           84.48         160.00
00:33:06 CONT L459  HP FW HTR 1-5 LVL                                 LOW
00:33:24 CONT L459  HP FW HTR 1-5 LVL                                 NORM
00:33:27 LOW  T351  CRD VENT FAN IN TEMP ,9185E           49.80          60.00
00:36:31 HIGH V396  EXCITER BRG  9 VIB (MILS)              6.54           6.50
 0:36:35 CONT X955  TREND RECORDER OUT 06
00:36:40 CONT L459  HP FW HTR 1-5 LVL                                 LOW
00:37:05 CONT L459  HP FW HTR 1-5 LVL                                 NORM
 0:37: 5 CONT X955  TREND RECORDER OUT 06
 0:37:35 CONT X955  TREND RECORDER OUT 06
00:37:35 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   OPEN
 0:38:10 CONT X955  TREND RECORDER OUT 06
00:38:11 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   NORM
00:38:12 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   OPEN
00:38:28 NORM T351  CRD VENT FAN IN TEMP ,9185E           78.30         160.00
00:38:30 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   NORM
 0:38:35 CONT X955  TREND RECORDER OUT 06
00:38:48 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   OPEN
 0:39:10 CONT X955  TREND RECORDER OUT 06
CURRENT DATE IS: JUNE,  9  1985
00:39:27 LOW  T351  CRD VENT FAN IN TEMP ,9185E           49.95          60.00
00:39:31 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   NORM
00:39:32 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   OPEN
00:39:52 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   NORM
 0:40:36 CONT X955  TREND RECORDER OUT 06
00:40:41 CONT L459  HP FW HTR 1-5 LVL                                 LOW
00:41:01 CONT L459  HP FW HTR 1-5 LVL                                 NORM
 0:41: 6 CONT X955  TREND RECORDER OUT 06
 0:41:36 CONT X955  TREND RECORDER OUT 06
00:42:27 NORM T351  CRD VENT FAN IN TEMP ,9185E           96.63         160.00
 0:42:36 CONT X955  TREND RECORDER OUT 06
00:43:27 LOW  T351  CRD VENT FAN IN TEMP ,9185E           49.95          60.00
00:43:59 CONT Q187  CRD REL/ABS POSITION SELECTED                     REL
00:44:01 CONT Q187  CRD REL/ABS POSITION SELECTED                     ABS
00:44:33 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   OPEN
00:44:43 CONT L459  HP FW HTR 1-5 LVL                                 LOW
00:45:05 CONT L459  HP FW HTR 1-5 LVL                                 NORM
00:45:10 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   NORM
00:45:11 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   OPEN
00:45:28 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   NORM
00:45:40 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   OPEN
00:46:12 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   NORM
00:46:13 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   OPEN
00:46:33 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                   NORM
 0:47:35 CONT X955  TREND RECORDER OUT 06
00:48:25 CONT L459  HP FW HTR 1-5 LVL                                 LOW
```

0:48:33	CONT	X955	TREND RECORDER OUT 06		
0:48:38	CONT	Q961	UNIT FREEZE PROTECT SYS		NORM
0:48:46	CONT	L459	HP FW HTR 1-5 LVL		NORM
0:49: 5	CONT	X955	TREND RECORDER OUT 06		
0:49:28	NORM	T351	CRD VENT FAN IN TEMP ,9185E	152.78	160.00
0:49:35	CONT	X955	TREND RECORDER OUT 06		
0:49:54	CONT	Z840	RPS, SFAS OR SFRCS CABINET DOOR		OPEN
0:50:00	CONT	Z840	RPS, SFAS OR SFRCS CABINET DOOR		NORM
0:50: 6	CONT	X955	TREND RECORDER OUT 06		
0:50:28	LOW	T351	CRD VENT FAN IN TEMP ,9185E	49.95	60.00
0:50:35	CONT	X955	TREND RECORDER OUT 06		
0:51:10	CONT	X955	TREND RECORDER OUT 06		
0:51:40	CONT	Z840	RPS, SFAS OR SFRCS CABINET DOOR		OPEN
0:51:47	CONT	Z840	RPS, SFAS OR SFRCS CABINET DOOR		NORM
0:52:36	CONT	X955	TREND RECORDER OUT 06		
0:53:36	CONT	X955	TREND RECORDER OUT 06		
0:55: 5	CONT	X955	TREND RECORDER OUT 06		
0:55:36	CONT	X955	TREND RECORDER OUT 06		
0:56: 6	CONT	X955	TREND RECORDER OUT 06		
0:58: 6	CONT	X955	TREND RECORDER OUT 06		
0:58:39	CONT	L651	MFPT 1 DRN LVL		NORM
0:59:36	CONT	X955	TREND RECORDER OUT 06		
1: 0: 6	CONT	X955	TREND RECORDER OUT 06		
1: 1:36	CONT	X955	TREND RECORDER OUT 06		
1:02:27	NORM	T351	CRD VENT FAN IN TEMP ,9185E	138.40	160.00
1:03:27	LOW	T351	CRD VENT FAN IN TEMP ,9185E	49.95	60.00
1:04:31	NORM	V396	EXCITER BRG 9 VIB (MILS)	6.31	6.50
1: 6:35	CONT	X955	TREND RECORDER OUT 06		
CURRENT DATE IS: JUNE, 9 1985					
1: 8: 5	CONT	X955	TREND RECORDER OUT 06		
1:08:28	NORM	T351	CRD VENT FAN IN TEMP ,9185E	82.76	160.00
1: 8:35	CONT	X955	TREND RECORDER OUT 06		
1:09:27	LOW	T351	CRD VENT FAN IN TEMP ,9185E	49.95	60.00
1: 9:45	CONT	X955	TREND RECORDER OUT 06		
1:10:27	NORM	T351	CRD VENT FAN IN TEMP ,9185E	155.66	160.00
1:12:27	LOW	T351	CRD VENT FAN IN TEMP ,9185E	49.95	60.00
1:15:55	CONT	X955	TREND RECORDER OUT 06		
1:16:28	NORM	T351	CRD VENT FAN IN TEMP ,9185E	135.65	160.00
1:16:40	CONT	X955	TREND RECORDER OUT 06		
1:17:28	LOW	T351	CRD VENT FAN IN TEMP ,9185E	49.95	60.00
1:17:35	CONT	X955	TREND RECORDER OUT 06		
1:18: 5	CONT	X955	TREND RECORDER OUT 06		
1:18:30	CONT	L651	MFPT 1 DRN LVL		HIGH
1:22:49	CONT	Q626	MFPT 1 MN OIL PMP 1		ON
1:23:36	CONT	X955	TREND RECORDER OUT 06		
1:24:36	CONT	X955	TREND RECORDER OUT 06		
1:24:37	CONT	T030	BA HEAT TRACE		NORM
1:26: 6	CONT	X955	TREND RECORDER OUT 06		
1:26:26	NORM	T351	CRD VENT FAN IN TEMP ,9185E	117.30	160.00
1:26:36	CONT	X955	TREND RECORDER OUT 06		
1:27:10	CONT	X955	TREND RECORDER OUT 06		
1:28:35	CONT	X955	TREND RECORDER OUT 06		
1:30:27	LOW	T351	CRD VENT FAN IN TEMP ,9185E	49.95	60.00
1:31:52	NORM	T402	EXCITER COLL RINGS AIR OUT TEMP	116.98	120.00
1:32:34	CONT	L459	HP FW HTR 1-5 LVL		LOW
1:32:51	CONT	L459	HP FW HTR 1-5 LVL		NORM
1:34: 5	CONT	X955	TREND RECORDER OUT 06		
1:34:09	CONT	L651	MFPT 1 DRN LVL		NORM
1:34:25	CONT	L651	MFPT 1 DRN LVL		HIGH
1:34:28	NORM	T351	CRD VENT FAN IN TEMP ,9185E	114.74	160.00
1:34:30	HIGH	L891	SG 2 OPERATE RANGE LVL, 9A1 (%)	70.70	70.00
1:34:30	HIGH	L892	SG 2 OPERATE RANGE LVL, 9A2 (%)	70.07	70.00
1:34:31	CONT	L651	MFPT 1 DRN LVL		NORM
1:34:36	HIGH	P042	BFP 1 DISCH PRESS	298.12	281.02
1:34:47	HIGH	F044	BFP 1 DISCH FLOW (KPPH)	5078.27	5666.84

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01:34:49 HIGH P674  MN FW 1 CTRL VLV DP,PDT-5B2(PSI)          99.99          70.00
01:34:49 CONT L351  DEAR STRG TK 1 LVL                                     HILO
01:34:50 HIGH P678  MN FW 2 CTRL VLV DP,PDT-5A1(PSI)          99.99          70.00
01:34:51 HIGH P679  MN FW 2 CTRL VLV DP,PDT-5A2(PSI)          99.99          70.00
01:35:01 CONT F050  BFP 2 DISCH FLOW                                       LOW
01:35:01 CONT Q537  ICS MFP LOSS OR LOW DEAR RUNBACK                       ON
 1:35: 0:355   SOE   Q613     MFPT 1                                TRIP
01:35:01 CONT Q546  ICS UNIT MASTER IN TRACKING                            ON
01:35:02 CONT F050  BFP 2 DISCH FLOW                                       NORM
01:35:03 NORM L892  SG 2 OPERATE RANGE LVL, 9A2 (%)           68.02          70.00
01:35:04 NORM L891  SG 2 OPERATE RANGE LVL, 9A1 (%)           67.63          70.00
01:35:06 NORM P042  BFP 1 DISCH PRESS                        270.04         281.02
01:35:06 CONT Q541  ICS REACTOR PWR LIMITED BY FW                          ON
01:35:06 CONT Z610  MFP 1 DISCH NRV                                        CLOS
01:35:11 LOW  P736  RC MU PMP DISCH PRESS                   2375.35        2400.00
01:35:11 CONT Q534  ICS FW LIMITED BY REACTOR PWR                          ON
01:35:12 NORM P936  SG 2 OUT STM PRESS,PT12A1                877.33         925.00
01:35:13 HIGH F630  MFP DIFF FLOW (KPPH)                    6302.40         216.85
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01:35:16 LOW  T801  RCP 1-2 DISCH CLG WR TEMP,RC4B4          557.41         557.52
01:35:16 CONT L351  DEAR STRG TK 1 LVL                                     NORM
01:35:19 HIGH P485  HPT I/E 1ST EXT PRESS                    572.67         565.57
01:35:19 NORM P673  MN FW 1 CTRL VLV DP,PDT-5B1(PSI)          37.02          70.00
01:35:19 HIGH V638  MFP 1 O/B BRG VIB (MILS)                   4.30           4.00
01:35:20 NORM P674  MN FW 1 CTRL VLV DP,PDT-5B2(PSI)          30.12          70.00
01:35:21 LOW  P678  MN FW 2 CTRL VLV DP,PDT-5A1(PSI)          25.77          30.00
01:35:21 NORM P932  SG 1 OUT STM PRESS,PT12B2                888.98         925.00
01:35:21 CONT Z772  RC PRZR SPRAY LINE VLV,RC2                             NC
01:35:22 LOW  P679  MN FW 2 CTRL VLV DP,PDT-5A2(PSI)          21.09          30.00
01:35:22 CONT P675  LOW FEEDWATER FLOW ALARM                               TRBL
01:35:26 CONT P723  RC LOOP 1 HLG PRESS                                    HILO
01:35:26 CONT P731  RC LOOP 2 HLG PRESS                                    HILO
01:35:27 LOW  P936  SG 2 OUT STM PRESS,PT12A1                833.23         850.00
 1:35:29: 95   SOE   P864     RPS CH 2 RC HI PRESS                  TRIP
 1:35:29:100   SOE   Q818     RPS CH 2 CH TRIP                      TRIP
01:35:28 LOW  T351  CRD VENT FAN IN TEMP ,9185E               49.95          60.00
01:35:29 HIGH F720  RC LETDOWN VS MU FLOW (GPM)              42.90          36.22
01:35:30 CONT P916  SFAS CH 2 RC PRESS HI                                  FAIL
01:35:30 CONT Q185  CRD MTR PWR                                            OFF
01:35:30 CONT Q379  EHC ELECTRICAL                                         TRBL
01:35:31 FLAG H176  SOME  S-O-E  FOR X072 TRIPPED                          TRIP
01:35:31 CONT L896  SFRCS SG LVL HALF/FULL TRIP,CH 2                       TRIP
01:35:31 CONT P913  SFAS CH 1 RC PRESS HI                                  FAIL
01:35:31 FLAG Q016  AFPT 1 MN STM 1 IN ISO VLV                             CLOS
01:35:31 FLAG Q020  AFP 1 DISCH VLV TO SG 1                                NO
01:35:31 FLAG Q032  AFP 2 DISCH VLV TO SG 2                                NO
01:35:31 CONT Q179  CRD AUTO MODE                                          OFF
01:35:31 CONT Q184  CRD MANUAL MODE                                        ON
01:35:31 CONT Q186  CRD PROGRAMMER LAMP FAULT                              YES
01:35:31 CONT Q263  CRD SAFETY RODS NOT WITHDRAWN                          YES
01:35:31 CONT Q378  EHC CTRLD BY ICS                                       NO
01:35:31 FLAG Q498  HPT GOV VLV 1                                          NC
01:35:31 FLAG Q499  HPT GOV VLV 2                                          NC
01:35:31 FLAG Q500  HPT GOV VLV 3                                          NC
01:35:31 FLAG Q501  HPT GOV VLV 4                                          NC
01:35:31 FLAG Q506  HPT STOP VLV 1                                         NC
01:35:31 FLAG Q507  HPT STOP VLV 1                                         NORM
01:35:31 FLAG Q508  HPT STOP VLV 2                                         NC
01:35:31 FLAG Q510  HPT STOP VLV 3                                         NC
01:35:31 FLAG Q512  HPT STOP VLV 4                                         NC
01:35:31 CONT Q531  RC DEBORATE ENABLE FROM ICS                            NO
01:35:31 FLAG Q576  LPT 1 RHT STOP VLV 2                                   NC
01:35:31 FLAG Q578  LPT 1 RHT STOP VLV 3                                   NC
01:35:31 FLAG Q579  LPT 1 RIV 2                                            NC
01:35:31 FLAG Q581  LPT 1 RIV 3                                            NC
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01:35:31 FLAG Q591  LPT 2 RHT STOP VLV 1                                NC
01:35:31 FLAG Q593  LPT 2 RHT STOP VLV 4                                NC
01:35:31 FLAG Q594  LPT 2 RIV 1                                         NC
01:35:31 FLAG Q596  LPT 2 RIV 4                                         NC
01:35:31 FLAG Q673  MN FW 1 CTRL VLV                                    NC
01:35:31 FLAG Q674  MN FW 1 STOP VLV                                    NC
01:35:31 FLAG Q678  MN FW 2 CTRL VLV                                    NC
01:35:31 FLAG Q679  MN FW 2 STOP VLV                                    NC
01:35:31 FLAG Q680  MN FW 2 SU CTRL VLV                                 NC
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01:35:31 CONT Q681  MSIV 1 LOW N2 OR SV                                 TRBL
01:35:31 FLAG Q683  MSIV NC WITH TRIP                                   NC
01:35:31 FLAG Q686  MSIV NC WITH TRIP                                   NC
01:35:31 CONT Q688  MSIV 2 LO N2 OR SV                                  TRBL
01:35:31 CONT Q777  ARTS TRIP                                           TRIP
01:35:31 CONT X044  T-G MN STM & FW TURB TRIP                           TRIP
01:35:31 FLAG X072  TURB , GEN OR MFPT                                  TRIP
01:35:31 CONT Z498  HPT GOV VLV 1                                       CLOS
01:35:31 CONT Z499  HPT GOV VLV 2                                       CLOS
01:35:31 CONT Z500  HPT GOV VLV 3                                       CLOS
01:35:31 CONT Z501  HPT GOV VLV 4                                       CLOS
01:35:31 CONT Z506  HPT STOP VLV 1                                      CLOS
01:35:31 CONT Z508  HPT STOP VLV 2                                      CLOS
01:35:31 CONT Z509  HPT STOP VLV 2                                      NO
01:35:31 CONT Z510  HPT STOP VLV 3                                      CLOS
01:35:31 CONT Z511  HPT STOP VLV 3                                      NO
01:35:31 CONT Z512  HPT STOP VLV 4                                      CLOS
01:35:31 CONT Z513  HPT STOP VLV 4                                      NO
01:35:31 CONT Z575  LPT 1 RHT STOP VLV 2                                NO
01:35:31 CONT Z576  LPT 1 RHT STOP VLV 2                                CLOS
01:35:31 CONT Z577  LPT 1 RHT STOP VLV 3                                NO
01:35:31 CONT Z578  LPT 1 RHT STOP VLV 3                                CLOS
01:35:31 CONT Z579  LPT 1 RIV 2                                         CLOS
01:35:31 CONT Z580  LPT 1 RIV 2                                         NO
01:35:31 CONT Z581  LPT 1 RIV 3                                         CLOS
01:35:31 CONT Z582  LPT 1 RIV 3                                         NO
01:35:31 CONT Z590  LPT 2 RHT STOP VLV 1                                NO
01:35:31 CONT Z591  LPT 2 RHT STOP VLV 1                                CLOS
01:35:31 CONT Z592  LPT 2 RHT STOP VLV 4                                NO
01:35:31 CONT Z593  LPT 2 RHT STOP VLV 4                                CLOS
01:35:31 CONT Z594  LPT 2 RIV 1                                         CLOS
01:35:31 CONT Z595  LPT 2 RIV 1                                         NO
01:35:31 CONT Z596  LPT 2 RIV 4                                         CLOS
01:35:31 CONT Z597  LPT 2 RIV 4                                         NO
01:35:32 CONT L583  LP FW HTR 1-2 LVL                                   NORM
01:35:32 CONT P480  HPT MN STM PRESS                                    HILO
01:35:32 CONT Q540  ICS RCP START                                       NORM
01:35:32 CONT Q543  ICS SG 1 LO LVL LIMIT                               ON
01:35:32 CONT Q545  ICS SG 2 LO LVL LIMIT                               ON
01:35:32 CONT Q813  RPS CH 1 ROD WTHDRW INHBT                           NORM
01:35:32 CONT Q821  RPS CH 2 ROD WTHDRW INHBT                           NORM
01:35:32 CONT Q829  RPS CH 3 ROD WTHDRW INHBT                           NORM
01:35:32 CONT Q837  RPS CH 4 ROD WTHDRW INHBT                           NORM
01:35:32 CONT X070  TURB EXT AIR DUMP RELAY VLV                         TRIP
01:35:32 CONT Z695  MSR 1 MOIST SEP DT HI LVL VLV                       NC
9
01:35:33 FLAG A764  RPS CH 2 FLUX-DFLUX-FLOW CH                         TRIP
01:35:33 FLAG A767  RPS CH 3 FLUX-DFLUX-FLOW CH                         TRIP
01:35:33 FLAG A770  RPS CH 4 FLUX-DFLUX-FLOW CH                         TRIP
01:35:33 CONT L896  SFRCS SG LVL HALF/FULL TRIP,CH 2                    NORM
01:35:33 CONT Q388  EHC T-G 500 RPM SUR SELECTED                        OFF
01:35:33 CONT X044  T-G MN STM & FW TURB TRIP                           NORM
01:35:33 CONT Z515  HPT 1ST EXT G/E NRV,FW HTR 2-6                      CLOS
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01:35:33 CONT Z602  LPT 2 4TH EXT NRV ,  DEAR 2                         CLOS
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01:35:34	FLAG	Q016	AFPT 1 MN STM 1 IN ISO VLV		NORM
01:35:34	FLAG	Q020	AFP 1 DISCH VLV TO SG 1		NORM
01:35:34	FLAG	Q032	AFP 2 DISCH VLV TO SG 2		NORM
01:35:34	FLAG	Q164	CNDS FLASH TK VLV TO HTR 1-2&2-2		NC
01:35:34	FLAG	Q498	HPT GOV VLV 1		NORM
01:35:34	FLAG	Q499	HPT GOV VLV 2		NORM
01:35:34	FLAG	Q500	HPT GOV VLV 3		NORM
01:35:34	FLAG	Q501	HPT GOV VLV 4		NORM
01:35:34	FLAG	Q506	HPT STOP VLV 1		NORM
01:35:34	FLAG	Q508	HPT STOP VLV 2		NORM
01:35:34	FLAG	Q510	HPT STOP VLV 3		NORM
01:35:34	FLAG	Q512	HPT STOP VLV 4		NORM
01:35:34	FLAG	Q550	LP FW HTR 1-2 HI LVL DRN CONTROL		NORM
01:35:34	FLAG	Q576	LPT 1 RHT STOP VLV 2		NORM
01:35:34	FLAG	Q578	LPT 1 RHT STOP VLV 3		NORM
01:35:34	FLAG	Q579	LPT 1 RIV 2		NORM
01:35:34	FLAG	Q581	LPT 1 RIV 3		NORM
01:35:34	FLAG	Q591	LPT 2 RHT STOP VLV 1		NORM
01:35:34	FLAG	Q593	LPT 2 RHT STOP VLV 4		NORM
01:35:34	FLAG	Q594	LPT 2 RIV 1		NORM
01:35:34	FLAG	Q596	LPT 2 RIV 4		NORM
01:35:34	FLAG	Q673	MN FW 1 CTRL VLV		NORM
01:35:34	FLAG	Q674	MN FW 1 STOP VLV		NORM
01:35:34	FLAG	Q678	MN FW 2 CTRL VLV		NORM
01:35:34	FLAG	Q679	MN FW 2 STOP VLV		NORM
01:35:34	FLAG	Q680	MN FW 2 SU CTRL VLV		NORM
01:35:34	FLAG	Q683	MSIV NC WITH TRIP		NORM
01:35:34	FLAG	Q686	MSIV NC WITH TRIP		NORM
01:35:34	FLAG	Q815	RPS CH 1 ROD WTHDRW INHBT BYPASS		TRBL
01:35:34	FLAG	Q823	RPS CH 2 ROD WTHDRW INHBT BYPASS		TRBL
01:35:34	FLAG	Q831	RPS CH 3 ROD WTHDRW INHBT BYPASS		TRBL
01:35:34	FLAG	Q839	RPS CH 4 ROD WTHDRW INHBT BYPASS		TRBL
01:35:34	FLAG	Q999	T-G		OFF
01:35:34	CONT	Z708	MSR 2 1ST STG DT HI LVL COND VLV		NC
01:35:36	CONT	P723	RC LOOP 1 HLG PRESS		NORM
01:35:36	CONT	P731	RC LOOP 2 HLG PRESS		NORM
01:35:36	CONT	Q688	MSIV 2 LO N2 OR SV		NORM
01:35:36	CONT	Z686	MN STM LINE 2 ISO VLV		CLOS
01:35:36	CONT	Z711	MSR 2 2ND STG DT HI LVL COND VLV		CLOS
01:35:37	CONT	Q537	ICS MFP LOSS OR LOW DEAR RUNBACK		OFF
01:35:37	CONT	Z517	HPT 1ST EXT T/E NRV,FW HTR 1-6		CLOS
01:35:37	LOW	P492	HPT 1ST STG T/E OUT PRESS	193.87	250.00
01:35:37	CONT	F050	BFP 2 DISCH FLOW		NORM
01:35:37	CONT	Q534	ICS FW LIMITED BY REACTOR PWR		NORM
01:35:37	CONT	Q542	ICS SG 1 BTU LIMIT		ON
01:35:37	CONT	Q681	MSIV 1 LOW N2 OR SV		NORM
01:35:37	FLAG	Q685	MSIV CLOS WITHOUT TRIP		CLOS
01:35:37	FLAG	Q831	RPS CH 3 ROD WTHDRW INHBT BYPASS		NORM
01:35:37	FLAG	Q839	RPS CH 4 ROD WTHDRW INHBT BYPASS		NORM
01:35:37	CONT	Z600	LPT 2 3RD EXT NRV , HTR 2-4		CLOS
01:35:37	CONT	Z683	MN STM LINE 1 ISO VLV		CLOS
01:35:37	CONT	Z961	SG 1 ATM STM VENT VLV		NC
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01:35:39	HIGH	T780	RCP 1-1 DISCH CLG NR TEMP,RC4B1	574.00	562.66
01:35:39	CONT	X031	T-G MANUAL ELEC TURB TRIP		TRIP
01:35:40	HIGH	P049	BFP 2 DISCH PRESS	284.33	281.02
01:35:40	CONT	P723	RC LOOP 1 HLG PRESS		HILO
01:35:41	CONT	P731	RC LOOP 2 HLG PRESS		HILO
01:35:41	FLAG	Q682	MSIV CLOS WITHOUT TRIP		CLOS
01:35:42	NORM	P736	RC MU PMP DISCH PRESS	2587.05	9999.00
01:35:42	HIGH	P931	SG 1 OUT STM PRESS,PT12B1	1063.24	925.00
01:35:42	HIGH	T800	RCP 1-2 DISCH CLG NR TEMP,RC4B3	578.17	562.66
01:35:42	CONT	Q534	ICS FW LIMITED BY REACTOR PWR		ON
01:35:43	HIGH	P936	SG 2 OUT STM PRESS,PT12A1	1005.52	925.00

01:35:43	HIGH	T620	RCP 2-1 DISCH CLG NR TEMP,RC4A1	578.35	562.66
01:35:43	CONT	L583	LP FW HTR 1-2 LVL		HIGH
01:35:43	CONT	Q542	ICS SG 1 BTU LIMIT		OFF
01:35:44	LOW	P637	MFP 1 DISCH PRESS	162.75	900.00
01:35:44	HIGH	T840	RCP 2-2 DISCH CLG NR TEMP,RC4A3	576.21	562.66
01:35:44	CONT	L771	RC PRZR LVL		HILO
01:35:44	FLAG	P860	RPS CH 1 RC LO PRESS		TRIP
01:35:44	FLAG	P865	RPS CH 2 RC LO PRESS		TRIP
01:35:44	FLAG	P870	RPS CH 3 RC LO PRESS		TRIP
01:35:44	FLAG	P871	RPS CH 4 RC LO PRESS		TRIP
01:35:44	FLAG	Q550	LP FW HTR 1-2 HI LVL DRN CONTROL		NTNM
01:35:44	CONT	Z493	HPT EXH G/E NRV,FW HTR 1-5		NC
01:35:45	NORM	F703	MSR 1 2ND STG DRN < STM FLOW (%)	13.40	100.00
01:35:45	CONT	Z772	RC PRZR SPRAY LINE VLV,RC2		CLOS
01:35:45	HIGH	P481	HPT SIDE 1 IN PRESS FROM SG-2	1027.20	925.45
01:35:45	HIGH	P644	MFP 2 DISCH PRESS	1121.17	1105.14
01:35:45	CONT	L351	DEAR STRG TK 1 LVL		HILO
01:35:45	CONT	Q542	ICS SG 1 BTU LIMIT		ON
01:35:45	CONT	Z166	CNDS PMP RECIRC VLV		NC
01:35:46	HIGH	P482	HPT SIDE 2 IN PRESS FROM SG-1	1060.86	925.45
01:35:46	FLAG	Q166	CNDS PMP RECIRC VLV		NC
01:35:46	FLAG	Q493	HPT EXH G/E NRV,FW HTR 1-5		NC
01:35:46	FLAG	Q815	RPS CH 1 ROD WTHDRW INHBT BYPASS		NORM
01:35:47	CONT	L386	ECCS SUMP 1 LVL		HIGH
01:35:48	CONT	Q544	ICS SG 2 BTU LIMIT		ON
01:35:49	NORM	P485	HPT T/E 1ST EXT PRESS	230.31	565.57
01:35:49	HIGH	P673	MN FW 1 CTRL VLV DP,PDT-5B1(PSI)	99.99	70.00
01:35:49	NORM	V638	MFP 1 O/B BRG VIB (MILS)	0.66	4.00
01:35:49	CONT	F741	RC MU FLOW		HIGH
01:35:49	CONT	L583	LP FW HTR 1-2 LVL		NORM
01:35:49	CONT	P480	HPT MN STM PRESS		NORM
01:35:49	FLAG	Q550	LP FW HTR 1-2 HI LVL DRN CONTROL		NORM
01:35:49	FLAG	Q823	RPS CH 2 ROD WTHDRW INHBT BYPASS		NORM
01:35:50	HIGH	P674	MN FW 1 CTRL VLV DP,PDT-5B2(PSI)	99.99	70.00
01:35:50	CONT	Q755	RC MU PMP 1 AUX LUBE OIL PMP		ON
01:35:51	HIGH	P678	MN FW 2 CTRL VLV DP,PDT-5A1(PSI)	99.99	70.00
01:35:51	HIGH	P932	SG 1 OUT STM PRESS,PT12B2	1034.16	925.00
01:35:51	NORM	P447	HP COND PRESS (IN HG ABS)	5.38	5.90
01:35:51	CONT	Q755	RC MU PMP 1 AUX LUBE OIL PMP		OFF
01:35:52	HIGH	P679	MN FW 2 CTRL VLV DP,PDT-5A2(PSI)	99.99	70.00
01:35:52	CONT	L459	HP FW HTR 1-5 LVL		LOW
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01:35:53	HIGH	P937	SG 2 OUT STM PRESS,PT12A2	1034.67	925.00
01:35:53	BAD	V652	MFPT 1 BFP END BRG VIB (MILS)	-0.22	0.00
01:35:53	CONT	P675	LOW FEEDWATER FLOW ALARM		NORM
01:35:53	CONT	Q754	RC MU PMP 1		ON
01:35:54	LOW	J427	GEN GROSS PWR (MW)	0.00	40.00
01:35:54	CONT	Q418	ESSEN BUS C1 CTRL PWR		TRBL
01:35:55	HIGH	L352	DEAR STRG TK 1 LVL (FT)	9.38	9.00
01:35:55	LOW	P769	RC PRZR PRESS	1963.53	2055.00
01:35:55	CONT	Q035	BUS A AUTO-XFER TO XFMR 01		XFER
01:35:55	CONT	Q042	BUS B AUTO-XFER TO XFMR 02		XFER
01:35:55	CONT	Q418	ESSEN BUS C1 CTRL PWR		NORM
01:35:55	CONT	Q456	GEN VOLTAGE REG		TRBL
01:35:55	CONT	Z036	BUS A BRKRS		NTNM
01:35:55	CONT	Z041	BUS B BRKRS		NTNM
01:35:55	CONT	Z455	GEN STATOR CLNT RESERVE PMP		ON
01:35:56	LOW	P610	LPT 1 3RD EXT PRESS,HTR 1-4	0.02	15.00
01:35:57	LOW	P611	LPT 1 4TH EXT PRESS,DEAR 1	0.01	5.00
01:35:57	LOW	F655	MFPT 1 LP STM FLOW (KPPH)	8.20	30.00
01:35:57	CONT	P480	HPT MN STM PRESS		HILO
01:35:58	LOW	F044	BFP 1 DISCH FLOW (KPPH)	527.34	1602.00
01:35:58	CONT	L583	LP FW HTR 1-2 LVL		HIGH
01:35:58	FLAG	Q550	LP FW HTR 1-2 HI LVL DRN CONTROL		NTNM
01:35:59	CONT	L682	MSR 1 MOIS SEP DT LVL		LOW
01:36:00	NORM	F633	MSR 1 1ST STG HTG STM FLOW(KPPH)	143.06	154.85

01:36:00	CONT	L357	DEAR STRG TK 2 LVL		HILO
01:36:01	CONT	L692	MSR 2 MOIS SEP DT LVL		LOW
01:36:02	CONT	Z165	CNDS FLASH TK VLV TO HTR 1-2&2-2		CLOS
01:36:03	HIGH	T878	SG 1 ATM STM VENT VLV OUT TEMP	258.80	250.00
01:36:04	FLAG	Q164	CNDS FLASH TK VLV TO HTR 1-2&2-2		NORM
01:36:05	NORM	F694	MSR 2 MOIS SEP DT DRN FLOW(KPPH)	4.67	268.94
01:36:05	LOW	P622	LPT 2 3RD EXT PRESS,HTR 2-4	0.02	15.00
01:36:05	LOW	P724	RC LOOP 1 HLG WR PRESS,SFAS CH 1	1971.62	2055.00
01:36:05	CONT	L459	HP FW HTR 1-5 LVL		NORM
01:36:05	CONT	L683	MSR 1 1ST STG DT LVL		LOW
01:36:06	LOW	P725	RC LOOP 1 HLG WR PRESS,SFAS CH 3	1937.66	2055.00
01:36:06	CONT	L698	MSR 2 2ND STG DT LVL		LOW
01:36:06	CONT	Q542	ICS SG 1 RTU LIMIT		OFF
01:36:06	CONT	Q544	ICS SG 2 RTU LIMIT		OFF
01:36:07	LOW	I420	GEN CURRENT (KAMPS)	0.01	1.00
01:36:07	LOW	P624	LPT 2 5TH EXT G/E PRES,HTR2-2(A)	1.04	3.00
01:36:07	HIGH	F740	RC MU FLOW, HIGH RANGE (GPM)	159.99	135.00
01:36:07	CONT	L695	MSR 2 1ST STG DT LVL		LOW
01:36:08	LOW	I429	GEN FIELD CURRENT (AMPS)	133.53	1450.00
01:36:08	HIGH	Z673	MN FW 1 CTRL VLV (% OPEN)	102.27	100.00
01:36:08	NORM	P493	HPT 1ST STG G/E OUT PRESS	0.12	704.73
01:36:09	LOW	P732	RC LOOP 2 HLG WR PRESS,SFAS CH 2	1943.77	2055.00
01:36:09	NORM	T706	RC AVG CLG NR TEMP	571.66	610.00
01:36:09	CONT	Q541	ICS REACTOR PWR LIMITED BY FW		NORM
01:36:10	LOW	P733	RC LOOP 2 HLG WR PRESS,SFAS CH 4	1930.41	2055.00
01:36:11	LOW	P736	RC MU PMP DISCH PRESS	2304.48	2400.00
01:36:11	HIGH	T781	RCP 1-1 DISCH CLG WR TEMP,RC4B2	574.33	562.66
1:36:11	CONT	X955	TREND RECORDER OUT 06		
01:36:11	NORM	P931	SG 1 OUT STM PRESS,PT12B1	999.95	1100.00
01:36:12	NORM	P936	SG 2 OUT STM PRESS,PT12A1	992.41	1100.00
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01:36:12	CONT	L688	MSR 1 2ND STG DT LVL		LOW
01:36:13	CONT	V951	T-G BRG VIB TURB TRIP		TRIP
01:36:14	CONT	L463	HP FW HTR 1-6 LVL		LOW
01:36:15	LOW	P481	HPT SIDE 1 IN PRESS FROM SG-2	719.80	909.45
01:36:16	LOW	P482	HPT SIDE 2 IN PRESS FROM SG-1	831.58	909.45
01:36:16	HIGH	T801	RCP 1-2 DISCH CLG WR TEMP,RC4B4	571.62	562.66
01:36:16	CONT	Y076	TURB STM SEAL DIVR VLV,HP COND		NC
01:36:17	CONT	L591	LP FW HTR 2-2 LVL		NORM
01:36:18	HIGH	P484	HPT T/E EXH PRESS	161.00	48.00
01:36:20	CONT	Z166	CNDS PMP RECIRC VLV		CLOS
01:36:21	NORM	P932	SG 1 OUT STM PRESS,PT12B2	1000.54	1100.00
01:36:21	HIGH	T821	RCP 2-1 DISCH CLG WR TEMP,RC4A2	572.17	562.66
01:36:21	CONT	V951	T-G BRG VIB TURB TRIP		NORM
01:36:22	HIGH	P492	HPT 1ST STG T/E OUT PRESS	156.75	114.00
01:36:22	FLAG	Q166	CNDS PMP RECIRC VLV		NORM
01:36:23	HIGH	P604	LPT 1 CIV 2 IN PRESS	156.94	48.00
01:36:23	NORM	P937	SG 2 OUT STM PRESS,PT12A2	994.02	1100.00
01:36:23	CONT	Y077	TURB STM SEAL DIVR VLV,FW HTR1-1		CLOS
01:36:24	HIGH	P605	LPT 1 CIV 3 IN PRESS	153.26	48.00
01:36:24	HIGH	T683	MSR 1 2ND STG HTG STM TEMP	601.21	600.00
01:36:25	HIGH	F684	MSR 1 MOIS SEP DT DRN FLOW(KPPH)	171.44	25.00
01:36:25	CONT	Q171	CNDS PMP 2		OFF
01:36:25	CONT	Q174	CNDS PMP 3		OFF
01:36:26	BAD	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.22	0.00
01:36:26	HIGH	L356	DEAR STRG TK 2 LVL (FT)	9.44	8.50
01:36:26	CONT	L455	HP FW HTR 1-4 LVL		LOW
01:36:26	CONT	P178	CNDS PMP 2 DISCH PRESS		LOW
01:36:26	CONT	Y075	TURB STM SEAL DIVR VLV,FW HTR2-1		CLOS
01:36:27	HIGH	L449	HP COND HOTWELL LVL (FT)	4.92	4.75
01:36:28	HIGH	T688	MSR 2 1ST STG HTG STM TEMP	482.42	380.00
01:36:28	CONT	L566	LP FW HTR DRN TK 2 LVL		NORM
01:36:28	FLAG	P184	CNDS PMP 3 DISCH PRESS		NORM
01:36:30	LOW	E430	GEN 25KV VOLTAGE (KV)	0.34	22.50
01:36:32	NORM	U150	GEN 25000 INT SUB FOR HOUR (KWH)	0.00	9999.00

.00

01:36:34	CONT	Z166	CNDS PMP RECIRC VLV			NC
01:36:35	NORM	P622	LPT 2 3RD EXT PRESS,HTR 2-4	0.02		126.34
01:36:36	LOW	P453	HP FW HTR 1-5 SHELL PRESS	143.41		158.06
01:36:36	CONT	L590	LP FW HTR 2-2 LVL			HIGH
01:36:37	NORM	P624	LPT 2 5TH EXT G/E PRES,HTR2-2(A)	0.90		23.53
01:36:37	HIGH	T044	BFP 1 SUCT TEMP	293.09		220.00
01:36:37	FLAG	Q166	CNDS PMP RECIRC VLV			NC
01:36:37	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL			NORM
01:36:38	NORM	I429	GEN FIELD CURRENT (AMPS)	0.77		9999.00
01:36:38	LOW	P455	HP FW HTR 2-4 SHELL PRESS	64.32		73.28
01:36:38	CONT	P977	T-G MSP			ON
01:36:39	LOW	P457	HP FW HTR 2-5 SHELL PRESS	142.64		158.06
01:36:40	CONT	L578	LP FW HTR 1-1 HI-LVL			TRIP
01:36:42	CONT	L450	HP COND HOTWELL LVL			HIGH
01:36:42	CONT	L590	LP FW HTR 2-2 LVL			NORM
01:36:43	NORM	T653	MFPT 1 HP STOP VLV CHEST TEMP	498.37		9999.00
01:36:43	CONT	L565	LP FW HTR DRN TK 1 LVL			LOW
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01:36:43	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL			NTNM
01:36:49	HIGH	P485	HPT T/E 1ST EXT PRESS	178.39		111.00
01:36:49	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD			NO
01:36:50	HIGH	T483	HPT T/E 1ST EXT TEMP	474.48		380.00
01:36:51	HIGH	F710	MSR 2 2ND STG HTG STM FLOW(KPPH)	237.81		100.00
01:36:51	HIGH	P491	HPT 1ST EXT T/E PRESS,HTR 1-6	127.76		111.00
01:36:51	HIGH	T679	MSR 1 1ST STG RHTR OUT STM TEMP	434.74		370.00
01:36:56	NORM	P610	LPT 1 3RD EXT PRESS,HTR 1-4	0.02		123.79
01:36:56	LOW	T490	HPT 1ST EXT G/E TEMP,HTR 2-6	0.00		60.00
01:36:56	CONT	L586	LP FW HTR 2-1 HI-LVL			TRIP
01:36:56	CONT	L590	LP FW HTR 2-2 LVL			HIGH
01:36:56	CONT	Q520	HTR DRN TK PMP 1 LOW LEVEL			TRIP
01:36:57	NORM	P611	LPT 1 4TH EXT PRESS,DEAR 1	0.01		92.56
01:36:57	NORM	P696	MSR 2 MOIS SEP IN STM PRESS	0.04		48.00
01:36:57	NORM	T820	RCP 2-1 DISCH CLG NR TEMP,RC4A1	562.25		562.66
01:36:58	NORM	T840	RCP 2-2 DISCH CLG NR TEMP,RC4A3	561.93		562.66
01:36:58	CONT	P963	T-G AC TGOP			ON
01:36:58	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL			NORM
01:36:59	HIGH	P698	MSR 2 1ST STG RHTR OUT STM PRESS	129.33		47.00
01:36:59	HIGH	T689	MSR 2 1ST STG RHTR OUT STM TEMP	436.22		370.00
01:37:00	NORM	E430	GEN 25KV VOLTAGE (KV)	0.03		27.50
01:37:01	CONT	P435	GEN H2 GAS PRESS			HILO
01:37:02	CONT	Q520	HTR DRN TK PMP 1 LOW LEVEL			NORM
01:37:05	CONT	Z020	BA PMP 2			ON
01:37:07	NORM	I420	GEN CURRENT (KAMPS)	0.00		9999.00
01:37:08	NORM	T780	RCP 1-1 DISCH CLG NR TEMP,RC4B1	562.05		562.66
01:37:08	CONT	Z746	RC MU BATCH STOP VLV			NC
01:37:10	HIGH	F699	MSR 2 1ST STG HTG STM FLOW(KPPH)	114.17		16.00
01:37:10	CONT	L590	LP FW HTR 2-2 LVL			NORM
01:37:10	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL			NTNM
01:37:10	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD			TRBL
01:37:11	HIGH	P474	HPT G/E EXH PRESS	118.15		48.00
01:37:11	NORM	T800	RCP 1-2 DISCH CLG NR TEMP,RC4B3	561.62		562.66
1:35:29:990	SOE	P868	RPS CH 3 RC HI PRESS		TRIP	
1:35:29:995	SOE	Q826	RPS CH 3 CH TRIP		TRIP	
1:35:30: 60	SOE	Q181	CRD CH B/D ANY TRIP DEVICE		TRIP	
1:35:30: 60	SOE	X038	T-G MASTER TURB TRIP		TRIP	
1:35:30: 65	SOE	Q180	CRD CH A/C ANY TRIP DEVICE		TRIP	
1:35:30: 95	SOE	X030	T-G MASTER TRIP SOLENOIDS		TRIP	
1:35:30:145	SOE	Q266	CRD TRIP CONFIRM		TRIP	
1:35:30:190	SOE	P858	RPS CH 1 RC HI PRESS		TRIP	
1:35:30:195	SOE	Q810	RPS CH 1 CH TRIP		TRIP	
1:35:30:285	SOE	X033	T-G MECH TRIP SOLENOID TURB TRIP		TRIP	
1:35:30:310	SOE	X032	T-G MECH TRIP VLV		TRIP	
1:35:30:370	SOE	P873	RPS CH 4 RC HI PRESS		TRIP	
1:35:30:370	SOE	Q834	RPS CH 4 CH TRIP		TRIP	

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1:35:30:340   SOE   A826      RPS CH 1 FLUX-DFLUX-FLOW BSTBL          TRIP
1:35:30:345   SOE   A869      RPS CH 4 FLUX-DFLUX-FLOW BSTBL          TRIP
1:35:30:550   SOE   A856      RPS CH 2 FLUX-DFLUX-FLOW BSTBL          TRIP
1:35:30:550   SOE   A862      RPS CH 3 FLUX-DFLUX-FLOW BSTBL          TRIP
1:35:30:935   SOE   G963      SFRCS FULL TRIP                         TRIP
1:35:34: 70   SOE   G963      SFRCS FULL TRIP                         NORM
1:35:41:675   SOE   P869      RPS CH 3 RC LO PRESS BSTBL              TRIP
1:35:41:710   SOE   P859      RPS CH 1 RC LO PRESS BSTBL              TRIP
1:35:41:745   SOE   P874      RPS CH 4 RC LO PRESS BSTBL              TRIP
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1:35:42:230   SOE   P863      RPS CH 2 RC LO PRESS BSTBL              TRIP
1:35:54:930   SOE   G428      GEN REVERSE PWR                         TRIP
1:35:54:950   SOE   X026      SWYD ACB 34561                          OPEN
1:35:54:950   SOE   X025      SWYD ACB 34560                          OPEN
1:35:54:955   SOE   I425      GEN GROUND CURRENT                      HIGH
1:35:55: 50   SOE   I425      GEN GROUND CURRENT                      NORM
1:35:55:330   SOE   J428      GEN REVERSE PWR                         NORM

01:37:18 HIGH T675  MSR 1 MOIS SEP DT OUT TEMP          357.90          300.00
01:37:18 CONT Z747  RC MU BATCH STOP VLV                                WO
01:37:19 NORM T441  HP COND CIRC WTR BOX 1 IN TEMP       93.78           98.08
01:37:19 HIGH F708  MSR 2 2ND STG DT DRN FLOW (KPPH)    147.05          100.00
01:37:20 HIGH P490  HPT 1ST EXT G/E PRESS,HTR 2-6       120.82          111.00
01:37:20 NORM V639  MFP 1 T/E BRG VIB (MILS)              3.79            4.00
01:37:21 NORM P491  HPT 1ST EXT T/E PRESS,HTR 1-6       104.69          111.00
01:37:23 HIGH F686  MSR 1 MOIS SEP IN STM PRESS         114.07           48.00
01:37:23 NORM V652  MFPT 1 BFP END BRG VIB (MILS)        -0.23            1.00
01:37:24 NORM T683  MSR 1 2ND STG HTG STM TEMP          561.76          600.00
01:37:25 HIGH F688  MSR 1 1ST STG RHTR OUT STM PRESS    113.88           47.00
01:37:25 CONT L590  LP FW HTR 2-2 LVL                                   HIGH
01:37:25 FLAG Q555  LP FW HTR 2-2 HI LVL DRN CONTROL                    NORM
01:37:26 HIGH T685  MSR 2 MOIS SEP DT OUT TEMP          355.45          330.00
01:37:26 NORM V667  MFPT 2 MFP END BRG VIB (MILS)        -0.16            2.00
01:37:27 HIGH T491  HPT 1ST EXT T/E TEMP,HTR 1-6        585.84          380.00
01:37:28 NORM T351  CRD VENT FAN IN TEMP ,9185E          130.78          160.00
01:37:30 HIGH F689  MSR 1 1ST STG HTG STM FLOW(KPPH)     148.08           16.00
01:37:31 CONT P765  RC MU TK PRESS                                      LOW
01:37:32 NORM V396  EXCITER BRG  9 VIB (MILS)             5.74            6.50
01:37:33 HIGH F692  MSR 1 2ND STG DT DRN FLOW (KPPH)    157.18          100.00
01:37:33 HIGH P617  LPT 2 CIV 4 IN PRESS                101.86           48.00
01:37:36 CONT Z468  HP FW HTR 2-5 HI LVL DRN VLV                        NC
01:37:37 NORM P492  HPT 1ST STG T/E OUT PRESS            100.11          114.00
01:37:37 FLAG Q469  HP FW HTR 2-5 HI LVL CONTROL                        NTNM
01:37:38 CONT F050  BFP 2 DISCH FLOW                                    LOW
01:37:39 HIGH T051  BFP 2 SUCT TEMP                      291.55          220.00
01:37:39 CONT F050  BFP 2 DISCH FLOW                                    NORM
01:37:41 NORM T781  RCP 1-1 DISCH CLG WR TEMP,RC4B2      561.18          562.66
01:37:41 CONT F050  BFP 2 DISCH FLOW                                    LOW
01:37:41 CONT L590  LP FW HTR 2-2 LVL                                   NORM
01:37:42 CONT F050  BFP 2 DISCH FLOW                                    NORM
01:37:43 HIGH T474  HPT G/E EXH TEMP                     404.00          310.00
01:37:43 CONT F050  BFP 2 DISCH FLOW                                    LOW
01:37:43 FLAG Q555  LP FW HTR 2-2 HI LVL DRN CONTROL                    NTNM
01:37:44 HIGH T475  HPT G/E 1ST EXT TEMP                 469.47          380.00
01:37:44 CONT F050  BFP 2 DISCH FLOW                                    NORM
01:37:44 CONT Z468  HP FW HTR 2-5 HI LVL DRN VLV                        CLOS
01:37:46 CONT F050  BFP 2 DISCH FLOW                                    LOW
01:37:46 FLAG Q469  HP FW HTR 2-5 HI LVL CONTROL                        NORM
01:37:47 CONT F050  BFP 2 DISCH FLOW                                    NORM
01:37:50 NORM P490  HPT 1ST EXT G/E PRESS,HTR 2-6        98.28          111.00
01:37:50 HIGH T678  MSR 1 1ST STG HTG STM TEMP           469.06          380.00
01:37:51 NORM T821  RCP 2-1 DISCH CLG WR TEMP,RC4A2      559.79          562.66
01:37:51 CONT L578  LP FW HTR 1-1 HI-LVL                                NORM
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01:37:52 FLAG Q518  HTR DRN TK PMP 1 RECIRC CONTROL                     NTNM
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01:37:55	FLAG	Q166	CNDS PMP RECIRC VLV			NORM
01:37:57	CONT	X955	TREND RECORDER OUT 06			
01:37:58	LOW	T820	RCP 2-1 DISCH CLG NR TEMP,RC4A1	557.27		557.52
01:37:59	LOW	T840	RCP 2-2 DISCH CLG NR TEMP,RC4A3	557.01		557.52
01:37:59	CONT	L760	RC MU TK LVL,MU16-1			HILO
01:37:59	CONT	L762	RC MU TK LVL,MU16-2			HILO
01:38:00	LOW	L769	RC PRZR AVG LVL (IN)	153.01		180.00
01:38:01	NORM	F689	MSR 1 1ST STG HTG STM FLOW(KPPH)	5.04		16.00
01:38:01	NORM	F051	BFP 2 DISCH FLOW (KPPH)	1672.43		5678.19
01:38:01	CONT	L590	LP FW HTR 2-2 LVL			HIGH
01:38:02	CONT	F050	BFP 2 DISCH FLOW			LOW
01:38:02	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL			NORM
01:38:03	CONT	F050	BFP 2 DISCH FLOW			NORM
01:38:04	NORM	F692	MSR 1 2ND STG DT DRN FLOW (KPPH)	3.15		100.00
01:38:05	NORM	F693	MSR 1 2ND STG HTG STM FLOW(KPPH)	0.99		100.00
01:38:05	CONT	F050	BFP 2 DISCH FLOW			LOW
01:38:06	CONT	L595	LPT 1 4TH EXT LINE LVL , DEAR 1			HIGH
01:38:07	CONT	F050	BFP 2 DISCH FLOW			NORM
01:38:08	NORM	F696	MSR 2 1ST STG DT DRN FLOW (KPPH)	8.79		16.00
01:38:08	CONT	T071	CC FROM CTMT OUT TEMP			NORM
01:38:09	NORM	P455	HP FW HTR 2-4 SHELL PRESS	72.15		115.00
01:38:09	LOW	T476	HPT SIDE 1 IN TEMP	572.10		573.57
01:38:11	NORM	F699	MSR 2 1ST STG HTG STM FLOW(KPPH)	5.00		16.00
01:38:12	CONT	F050	BFP 2 DISCH FLOW			LOW
01:38:13	CONT	F050	BFP 2 DISCH FLOW			NORM
01:38:14	LOW	F630	MFP DIFF FLOW (KPPH)	-1977.13		-147.70
01:38:15	CONT	F050	BFP 2 DISCH FLOW			LOW
01:38:15	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD			YES
01:38:16	CONT	F050	BFP 2 DISCH FLOW			NORM
01:38:16	CONT	Z747	RC MU BATCH STOP VLV			NO
01:38:17	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD			NORM
01:38:19	HIGH	P597	LPT 1 CIV 3 STRNR DP (PSI)	181.57		10.00
01:38:20	HIGH	P598	LPT 1 CIV 2 STRNR DP (PSI)	180.11		10.00
01:38:20	NORM	F708	MSR 2 2ND STG DT DRN FLOW (KPPH)	45.78		100.00
01:38:20	NORM	P485	HPT T/E 1ST EXT PRESS	104.36		111.00
01:38:22	HIGH	P600	LPT 2 CIV 4 STRNR DP (PSI)	173.74		10.00
01:38:22	NORM	F710	MSR 2 2ND STG HTG STM FLOW(KPPH)	0.86		100.00
01:38:22	CONT	F050	BFP 2 DISCH FLOW			LOW
01:38:23	CONT	F050	BFP 2 DISCH FLOW			NORM
01:38:24	BAD	V652	MFPT 1 BFP END BRG VIB (MILS)	-0.20		0.00
01:38:26	CONT	F050	BFP 2 DISCH FLOW			LOW
01:38:26	CONT	L590	LP FW HTR 2-2 LVL			NORM
01:38:26	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL			NTNM
01:38:27	BAD	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.14		0.00
01:38:27	LOW	T800	RCP 1-2 DISCH CLG NR TEMP,RC4B3	557.44		557.52
01:38:27	CONT	F050	BFP 2 DISCH FLOW			NORM
01:38:27	CONT	Z746	RC MU BATCH STOP VLV			CLOS
01:38:28	CONT	F050	BFP 2 DISCH FLOW			LOW
01:38:29	LOW	L761	RC MU TK LVL,MU16-1 (IN)	51.53		53.00
01:38:29	CONT	F050	BFP 2 DISCH FLOW			NORM
01:38:30	CONT	Z746	RC MU BATCH STOP VLV			NC
01:38:31	LOW	L763	RC MU TK LVL,MU16-2 (IN)	49.76		53.00
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01:38:38	LOW	T780	RCP 1-1 DISCH CLG NR TEMP,RC4B1	557.10		557.52
01:38:38	CONT	X016	SWYD ABS 34620			OPEN
01:38:39	LOW	T706	RC AVG CLG NR TEMP	556.62		557.52
01:38:39	CONT	F050	BFP 2 DISCH FLOW			LOW
01:38:39	CONT	Z747	RC MU BATCH STOP VLV			WO
01:38:40	HIGH	C417	MSR 2 2ND STG DTEMP/DTIME (DFPM)	7.55		2.08
01:38:40	CONT	Z747	RC MU BATCH STOP VLV			NO
01:38:42	CONT	F050	BFP 2 DISCH FLOW			NORM
01:38:42	CONT	L463	HP FW HTR 1-6 LVL			NORM
01:38:42	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD			NO
01:38:43	CONT	F050	BFP 2 DISCH FLOW			LOW

01:38:43	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD		TRBL
01:38:44	CONT	F050	BFP 2 DISCH FLOW		NORM
01:38:46	LOW	T801	RCP 1-2 DISCH CLG WR TEMP,RC4B4	556.79	557.52
01:38:47	CONT	F050	BFP 2 DISCH FLOW		LOW
01:38:48	NORM	F707	MSR 2 2ND STG DRN < STM FLOW (%)	-6238.43	3.00
01:38:48	CONT	F050	BFP 2 DISCH FLOW		NORM
01:38:48	CONT	L590	LP FW HTR 2-2 LVL		HIGH
01:38:49	CONT	F050	BFP 2 DISCH FLOW		LOW
01:38:49	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL		NORM
01:38:49	FLAG	T681	MSR 1 TEMP < 325 DEG F		LOW
01:38:50	HIGH	T399	EXCITER CLR AIR IN TEMP	124.93	110.65
01:38:51	LOW	T821	RCP 2-1 DISCH CLG WR TEMP,RC4A2	556.35	557.52
01:38:51	CONT	Z746	RC MU BATCH STOP VLV		CLOS
01:38:52	HIGH	V646	MFP 2 T/E BRG VIB (MILS)	5.12	4.00
01:38:52	CONT	F050	BFP 2 DISCH FLOW		NORM
01:38:52	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD		NORM
01:38:53	NORM	F712	RC LOOP 1 HLG FLOW (MPPH)	72.55	73.35
01:38:53	NORM	P604	LPT 1 CIV 2 IN PRESS	46.56	48.00
01:38:53	NORM	V652	MFPT 1 BFP END BRG VIB (MILS)	-0.20	1.00
01:38:55	NORM	F714	RC HLG TOTAL FLOW (MPPH)	147.00	153.76
01:38:55	CONT	F050	BFP 2 DISCH FLOW		LOW
01:38:56	NORM	T685	MSR 2 MOIS SEP DT OUT TEMP	309.87	330.00
01:38:56	NORM	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.14	2.00
01:38:58	CONT	F050	BFP 2 DISCH FLOW		NORM
01:38:58	CONT	Z746	RC MU BATCH STOP VLV		NC
01:39:00	NORM	P698	MSR 2 1ST STG RHTR OUT STM PRESS	43.80	47.00
01:39:00	CONT	F050	BFP 2 DISCH FLOW		LOW
01:39:01	CONT	F050	BFP 2 DISCH FLOW		NORM
01:39:01	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD		TRBL
01:39:02	CONT	F050	BFP 2 DISCH FLOW		LOW
01:39:03	NORM	P617	LPT 2 CIV 4 IN PRESS	42.90	48.00
01:39:05	NORM	P618	LPT 2 CIV 1 IN PRESS	41.43	48.00
01:39:06	CONT	L590	LP FW HTR 2-2 LVL		NORM
01:39:07	NORM	P433	HP FW HTR 1-5 SHELL PRESS	77.18	200.00
01:39:08	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL		NTNM
01:39:09	CONT	P983	TURB STM SEAL HDR PRESS		LOW
01:39:10	NORM	P457	HP FW HTR 2-5 SHELL PRESS	77.29	200.00
01:39:10	CONT	Z747	RC MU BATCH STOP VLV		WO
01:39:11	CONT	Q544	ICS SG 2 BTU LIMIT		ON
01:39:12	NORM	P474	HPT G/E EXH PRESS	39.52	48.00
01:39:12	LOW	T781	RCP 1-1 DISCH CLG WR TEMP,RC4B2	556.49	557.52
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01:39:12	CONT	L566	LP FW HTR DRN TK 2 LVL		HIGH
01:39:14	CONT	Q544	ICS SG 2 BTU LIMIT		OFF
01:39:15	LOW	P641	MFP 1 HEAD RISE (FT)	-3.44	0.00
01:39:17	BAD	R790	RPS AUCTIONEERED AVG PWR (%)	-0.02	0.00
01:39:19	NORM	P484	HPT T/E EXH PRESS	36.36	48.00
01:39:20	HIGH	T441	HP COND CIRC WTR BOX 1 IN TEMP	91.65	88.69
01:39:20	FLAG	T681	MSR 1 TEMP < 325 DEG F		NORM
01:39:24	LOW	F712	RC LOOP 1 HLG FLOW (MPPH)	62.19	69.77
01:39:24	NORM	P686	MSR 1 MOIS SEP IN STM PRESS	37.16	48.00
01:39:25	NORM	P605	LPT 1 CIV 3 IN PRESS	35.30	48.00
01:39:25	LOW	T477	HPT SIDE 2 IN TEMP	573.45	573.57
01:39:26	HIGH	F714	RC HLG TOTAL FLOW (MPPH)	147.00	145.37
01:39:26	NORM	P688	MSR 1 1ST STG RHTR OUT STM PRESS	35.56	47.00
01:39:32	CONT	F050	BFP 2 DISCH FLOW		LOW
01:39:32	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL		NORM
01:39:39	LOW	C416	MSR 1 2ND STG DTEMP/DTIME (DFPM)	-36.43	-2.08
01:39:40	LOW	C417	MSR 2 2ND STG DTEMP/DTIME (DFPM)	-106.29	-2.08
01:39:40	NORM	T607	LPT 2 CIV IN STM TEMP UNBAL	5.05	25.00
01:39:40	NORM	P459	HP FW HTR 2-6 SHELL PRESS	172.30	490.00
01:39:40	CONT	F050	BFP 2 DISCH FLOW		NORM
01:39:41	CONT	F050	BFP 2 DISCH FLOW		LOW
01:39:46	LOW	R790	RPS AUCTIONEERED AVG PWR (%)	-0.02	0.00

01:39:55	LOW	P932	TURB STM SEAL HDR PRESS	1.28		1.30
01:39:53	FLAG	C964	CRD WITHDRWL IND VS CORE PWR LVL			EXCD
01:39:53	CONT	C969	CORE PWR DISTRIBUTION ALARM LIM			EXCD
01:39:55	FLAG	H346	ROD INDEX LIMIT EXCEEDED			YES
01:40:06	CONT	L591	LP FW HTR 2-2 LVL			LOW
01:40:09	CONT	L591	LP FW HTR 2-2 LVL			NORM
01:40:12	CONT	L591	LP FW HTR 2-2 LVL			LOW
01:40:16	CONT	L591	LP FW HTR 2-2 LVL			NORM
01:40:16	CONT	P983	TURB STM SEAL HDR PRESS			NORM
01:40:18	CONT	Z961	SG 1 ATM STM VENT VLV			CLOS
01:40:19	NORM	P673	MN FW 1 CTRL VLV DP,PDT-5B1(PSI)	8.03		70.00
01:40:19	CONT	L386	ECCS SUMP 1 LVL			NORM
01:40:20	NORM	P674	MN FW 1 CTRL VLV DP,PDT-5B2(PSI)	6.89		70.00
01:40:20	CONT	P675	LOW FEEDWATER FLOW ALARM			TRBL
01:40:21	NORM	P678	MN FW 2 CTRL VLV DP,PDT-5A1(PSI)	0.10		70.00
01:40:22	NORM	P679	MN FW 2 CTRL VLV DP,PDT-5A2(PSI)	0.01		70.00
01:40:23	CONT	Z961	SG 1 ATM STM VENT VLV			NC
01:40:28	LOW	T351	CRD VENT FAN IN TEMP ,9185E	49.95		60.00
01:40:29	CONT	L885	SG 1 SU RANGE LVL			LOW
01:40:30	CONT	L590	LP FW HTR 2-2 LVL			HIGH
01:40:31	CONT	L895	SG 2 SU RANGE LVL			LOW
01:40:31	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL			NORM
01:40:33	CONT	P731	RC LOOP 2 HLG PRESS			NORM
01:40:40	CONT	L590	LP FW HTR 2-2 LVL			NORM
01:40:40	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL			NTNM
01:40:41	CONT	P723	RC LOOP 1 HLG PRESS			NORM
01:40:41	CONT	Z585	LPT 1 3RD EXT NRV , HTR 1-4			CLOS
01:40:45	LOW	P644	MFP 2 DISCH PRESS	822.68		900.00
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01:40:52	NORM	V646	MFP 2 T/E BRG VIB (MILS)	3.85		4.00
01:40:52	CONT	Q544	ICS SG 2 BTU LIMIT			ON
01:40:54	NORM	P687	MSR 1 DP (PSI)	8.39		10.00
01:40:55	NORM	P982	TURB STM SEAL HDR PRESS	6.50		9999.00
01:40:56	HIGH	F857	RC LOOP 1 HLG FLOW (MPPH)	72.01		71.76
1:40:56	CONT	X957	TREND RECORDER OUT 08			
01:40:57	HIGH	T188	CNDS SJAE TEMP RISE	4.19		4.00
01:40:57	CONT	Q975	UNIT INSTR AIR DRYERS			TRBL
01:40:58	CONT	Q544	ICS SG 2 BTU LIMIT			OFF
01:40:58	FLAG	Q612	MFPT 1			OFF
01:40:58	CONT	Q975	UNIT INSTR AIR DRYERS			NORM
01:40:59	LOW	F665	MFPT 2 LP STM FLOW (KPPH)	14.32		30.00
01:41:00	LOW	F051	BFP 2 DISCH FLOW (KPPH)	1250.92		1612.00
01:41:03	CONT	L886	SFRCS SG LVL HALF/FULL TRIP,CH 1			TRIP
1:41: 4:345		SOE	0963 SFRCS FULL TRIP		TRIP	
01:41:04	CONT	Z961	SG 1 ATM STM VENT VLV			CLOS
01:41:05	FLAG	Q016	AFPT 1 MN STM 1 IN ISO VLV			CLOS
01:41:05	FLAG	Q020	AFP 1 DISCH VLV TO SG 1			NO
01:41:05	FLAG	Q032	AFP 2 DISCH VLV TO SG 2			NO
01:41:05	FLAG	Q673	MN FW 1 CTRL VLV			NC
01:41:03	FLAG	Q674	MN FW 1 STOP VLV			NC
01:41:05	FLAG	Q675	MN FW 1 SU CTRL VLV			NC
01:41:05	FLAG	Q678	MN FW 2 CTRL VLV			NC
01:41:06	CONT	Z003	AFPT 1 MN STM 1 IN ISO VLV			NC
01:41:08	CONT	P680	SFRCS MN STM LINE LOW PRESS,CH 2			TRIP
01:41:08	CONT	P681	SFRCS MN STM LINE LOW PRESS,CH 1			TRIP
01:41:08	FLAG	Q016	AFPT 1 MN STM 1 IN ISO VLV			NORM
01:41:08	FLAG	Q680	MN FW 2 SU CTRL VLV			NC
01:41:10	NORM	P049	BFP 2 DISCH PRESS	180.92		220.00
01:41:10	CONT	Z962	SG 1 AFW ISO VLV			NO
01:41:10	CONT	Z970	SG 2 AFW ISO VLV			NO
01:41:13	CONT	L896	SFRCS SG LVL HALF/FULL TRIP,CH 2			TRIP
01:41:13	CONT	S656	MFPT 1 SHAFT			STPD

01:41:14	CONT	P983	TURB STM SEAL HDR PRESS		LOW
01:41:15	CONT	S656	MFPT 1 SHAFT		NORM
01:41:16	FLAG	H177	SOME S-O-E FOR X072 TRIPPED		NORM
01:41:16	FLAG	Q620	MFPT 1 HP OR LP STOP VLV		NORM
01:41:17	CONT	Z674	MN FW 1 STOP VLV		CLOS
01:41:19	FLAG	Q674	MN FW 1 STOP VLV		NORM
01:41:21	CONT	Z679	MN FW 2 STOP VLV		CLOS
01:41:22	FLAG	Q679	MN FW 2 STOP VLV		NORM
01:41:22	CONT	Z003	AFPT 1 MN STM 1 IN ISO VLV		CLOS
01:41:25	NORM	P769	RC PRZR PRESS	2130.63	2255.00
01:41:25	FLAG	Q016	AFPT 1 MN STM 1 IN ISO VLV		CLOS
01:41:27	NORM	F655	MFPT 1 LP STM FLOW (KPPH)	2.83	9999.00
01:41:27	CONT	Z008	AFP 1 DISCH VLV TO SG 1		OPEN
01:41:28	FLAG	Q020	AFP 1 DISCH VLV TO SG 1		NORM
01:41:28	CONT	Z008	AFP 1 DISCH VLV TO SG 1		NO
01:41:31	FLAG	Q020	AFP 1 DISCH VLV TO SG 1		NO
01:41:31	CONT	S007	AFPT 1 OVERSPEED		TRIP
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01:41:31	CONT	Z001	AFPT 1 STOP VLV		NO
01:41:34	CONT	L590	LP FW HTR 2-2 LVL		HIGH
01:41:34	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL		NORM
01:41:34	CONT	Z009	AFP 1 DISCH VLV TO SG 2		OPEN
01:41:35	NORM	P724	RC LOOP 1 HLG WR PRESS,SFAS CH 1	2123.46	2255.00
01:41:35	CONT	Z011	AFP 2 DISCH VLV TO SG 1		OPEN
01:41:39	LOW	T604	LPT 1 CIV IN STM TEMP UNBAL	-1.99	0.00
01:41:39	NORM	P732	RC LOOP 2 HLG WR PRESS,SFAS CH 2	2114.30	2255.00
01:41:39	LOW	Z675	MN FW 1 SU CTRL VLV (% OPEN)	-0.17	2.00
01:41:40	HIGH	C417	MSR 2 2ND STG DTEMP/DTIME (DFPM)	4.57	2.08
01:41:40	FLAG	Q675	MN FW 1 SU CTRL VLV		NORM
01:41:41	LOW	Z680	MN FW 2 SU CTRL VLV (% OPEN)	-1.57	2.00
01:41:43	FLAG	Q680	MN FW 2 SU CTRL VLV		NORM
01:41:43	CONT	V003	AFP & AFPT 2 BRG VIB		HIGH
01:41:44	CONT	S017	AFPT 2 OVERSPEED		TRIP
1:41:46	CONT	X955	TREND RECORDER OUT 06		
01:41:44	CONT	Z002	AFPT 2 STOP VLV		NO
1:41:46	CONT	X957	TREND RECORDER OUT 08		
01:41:49	NORM	T178	CNDS PMP 2 MTR LWR BRG OT	154.28	160.00
01:41:52	CONT	Q544	ICS SG 2 BTU LIMIT		ON
01:41:53	NORM	F712	RC LOOP 1 HLG FLOW (MPPH)	62.19	62.91
01:41:53	BAD	V652	MFPT 1 BFP END BRG VIB (MILS)	-0.22	0.00
01:41:54	CONT	L590	LP FW HTR 2-2 LVL		NORM
01:41:55	LOW	P982	TURB STM SEAL HDR PRESS	0.00	1.30
01:41:55	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL		NTNM
01:41:59	NORM	F044	BFP 1 DISCH FLOW (KPPH)	99.67	2476.05
01:42:00	CONT	P680	SFRCS MN STM LINE LOW PRESS,CH 2		NORM
01:42:00	CONT	P681	SFRCS MN STM LINE LOW PRESS,CH 1		NORM
01:42:00	CONT	Z772	RC PRZR SPRAY LINE VLV,RC2		NC
01:42:01	CONT	Z003	AFPT 1 MN STM 1 IN ISO VLV		NC
01:42:01	CONT	Z006	AFPT 2 MN STM 2 IN ISO VLV		NC
01:42:01	CONT	Z011	AFP 2 DISCH VLV TO SG 1		NO
01:42:02	FLAG	Q016	AFPT 1 MN STM 1 IN ISO VLV		NORM
01:42:02	CONT	Z009	AFP 1 DISCH VLV TO SG 2		NO
01:42:07	NORM	P725	RC LOOP 1 HLG WR PRESS,SFAS CH 3	2152.45	2255.00
1:42: 7	CONT	X955	TREND RECORDER OUT 06		
01:42:11	NORM	P733	RC LOOP 2 HLG WR PRESS,SFAS CH 4	2171.53	2255.00
01:42:11	CONT	R831	SFAS CH 1 CTMT RAD LOW		FAIL
01:42:12	CONT	Q544	ICS SG 2 BTU LIMIT		OFF
01:42:14	NORM	F630	MFP DIFF FLOW (KPPH)	-1151.26	0.00
01:42:14	NORM	P637	MFP 1 DISCH PRESS	62.49	980.00
01:42:15	NORM	P641	MFP 1 HEAD RISE (FT)	-5.25	1903.12
01:42:15	CONT	L590	LP FW HTR 2-2 LVL		HIGH
01:42:17	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL		NORM
01:42:24	NORM	V652	MFPT 1 BFP END BRG VIB (MILS)	-0.22	1.00
01:42:24	CONT	Z008	AFP 1 DISCH VLV TO SG 1		OPEN

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01:42:27 CONT Z010  AFF 2 DISCH VLV TO SG 2                                  OPEN

01:42:40 HIGH C416  MSR 1 2ND STG DTEMP/DTIME (DFPM)          9.53             2.08
01:42:42 CONT Q544  ICS SG 2 BTU LIMIT                                       OFF
01:42:44 CONT L590  LP FW HTR 2-2 LVL                                        NORM
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01:42:44 FLAG Q555  LP FW HTR 2-2 HI LVL DRN CONTROL                         NTNM
01:42:53 NORM T070  CC FEED TO LETDOWN HX TEMP                82.67            85.00
01:43:02 FLAG S970  T-G RPM < 1200,BREAK COND VACM                            OK
 1:43: 7 CONT X955  TREND RECORDER OUT 06
01:43:05 FLAG S970  T-G RPM < 1200,BREAK COND VACM                            NORM
01:43:07 CONT Z468  HP FW HTR 2-5 HI LVL DRN VLV                             NC
01:43:08 CONT L450  HP COND HOTWELL LVL                                      NORM
01:43:08 FLAG Q469  HP FW HTR 2-5 HI LVL CONTROL                             NTNM
01:43:09 CONT L590  LP FW HTR 2-2 LVL                                        HIGH
01:43:10 CONT Z168  CNDS STRG TK OUT VLV TO LP COND                          NC
01:43:11 FLAG Q555  LP FW HTR 2-2 HI LVL DRN CONTROL                         NORM
01:43:18 HIGH V614  LPT 2 BRG 5 VIB (MILS)                    6.88             6.50
01:43:19 NORM P597  LPT 1 CIV 3 STRNR DP          (PSI)       6.05            10.00
01:43:20 NORM P598  LPT 1 CIV 2 STRNR DP          (PSI)       5.46            10.00
01:43:22 NORM P600  LPT 2 CIV 4 STRNR DP          (PSI)       4.77            10.00
 1:43:23:255   SOE  Q841     RPS SU RATE ROD WTHDRWL  INHIBIT        INHB
01:43:24 CONT Q267  CRD WITHDRAW INHIBIT                                     ON
01:43:32 FLAG S970  T-G RPM < 1200,BREAK COND VACM                            OK
01:43:33 BAD  E814  RPS CH 1 SR NI2 HV (VOLTS)             2122.23           300.00
01:43:35 FLAG S970  T-G RPM < 1200,BREAK COND VACM                            NORM
 1:43:37 CONT X955  TREND RECORDER OUT 06
01:43:36 HIGH A859  RPS CH 2 SR SU RATE DNI1 (DPM)            10.00             1.50
01:43:37 CONT Z468  HP FW HTR 2-5 HI LVL DRN VLV                             CLOS
01:43:38 FLAG Q469  HP FW HTR 2-5 HI LVL CONTROL                             NORM
01:43:39 BAD  E820  RPS CH 2 SR NI1 HV (VOLTS)             2084.43           300.00
01:43:43 NORM L449  HP COND HOTWELL LVL (FT)                   4.62             4.75
01:43:46 HIGH V602  LPT 1 BRG 3 VIB (MILS)                     7.29             6.50
01:43:47 LOW  J848  RCP 2-2 MTR PWR (MW)                       5.51             5.52
01:43:47 HIGH V603  LPT 1 BRG 4 VIB (MILS)                     7.28             6.50
 1:43:47 CONT X957  TREND RECORDER OUT 08
01:43:48 CONT L590  LP FW HTR 2-2 LVL                                        NORM
01:43:50 FLAG Q555  LP FW HTR 2-2 HI LVL DRN CONTROL                         NTNM
01:43:54 BAD  V652  MFPT 1 BFP END BRG VIB (MILS)             -0.23             0.00
01:43:55 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                          OPEN
 1:43:58:160   SOE  Q841     RPS SU RATE ROD WTHDRWL  INHIBIT        NORM
01:43:57 BAD  V667  MFPT 2 MFP END BRG VIB (MILS)             -0.16             0.00
01:43:58 NORM T188  CNDS SJAE TEMP RISE                        3.49             4.00
01:43:58 CONT Q267  CRD WITHDRAW INHIBIT                                     OFF
01:44:02 FLAG S970  T-G RPM < 1200,BREAK COND VACM                            OK
01:44:05 FLAG S970  T-G RPM < 1200,BREAK COND VACM                            NORM
01:44:07 NORM A859  RPS CH 2 SR SU RATE DNI1 (DPM)             0.99             1.50
01:44:07 CONT Q009  AUX BLR SYS                                              NORM
 1:44: 8 CONT X955  TREND RECORDER OUT 06
01:44:13 CONT L771  RC PRZR LVL                                              NORM
01:44:13 CONT P731  RC LOOP 2 HLG PRESS                                      HILO
01:44:17 CONT L590  LP FW HTR 2-2 LVL                                        HIGH
01:44:18 FLAG Q555  LP FW HTR 2-2 HI LVL DRN CONTROL                         NORM
01:44:19 CONT P723  RC LOOP 1 HLG PRESS                                      HILO
01:44:19 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                          NORM
01:44:20 HIGH V615  LPT 2 BRG 6 VIB (MILS)                     7.58             6.50
01:44:20 CONT Q544  ICS SG 2 BTU LIMIT                                       ON
01:44:20 CONT Z462  HP FW HTR 1-5 HI LVL DRN VLV                             NC
01:44:21 FLAG Q463  HP FW HTR 1-5 HI LVL CONTROL                             NTNM
01:44:25 NORM V652  MFPT 1 BFP END BRG VIB (MILS)             -0.23             1.00
01:44:27 HIGH P769  RC PRZR PRESS                          2266.14           2255.00
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01:44:28 NORM V667  MFPT 2 MFP END BRG VIB (MILS)             -0.16             1.00
01:44:29 CONT Z840  RPS, SFAS OR SFRCS CABINET DOOR                          OPEN
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01:44:35	NORM	E814	RPS CH 1 SR NI2 HV (VOLTS)	2129.85	9999.00
01:44:35	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM
01:44:36	HIGH	P724	RC LOOP 1 HLG WR PRESS,SFAS CH 1	2261.56	2255.00
01:44:37	HIGH	P447	HP COND PRESS (IN HG ABS)	5.91	5.90
01:44:39	NORM	E820	RPS CH 2 SR NI1 HV (VOLTS)	2087.66	9999.00
01:44:39	HIGH	P730	RC LOOP 2 HLG NR PRESS,RPS CH 4	2255.15	2160.00
01:44:40	HIGH	P520	LP COND PRESS (INHG A)	6.16	5.90
01:44:41	HIGH	P627	LPT 2 6TH EXT T/E PRES,HTR2-1(A)	1.55	1.50
01:44:42	NORM	P736	RC MU PMP DISCH PRESS	2499.15	9999.00
01:44:45	NORM	L769	RC PRZR AVG LVL (IN)	164.71	227.00
01:44:46	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD		YES
01:44:47	HIGH	T894	SG 2 ATM STM VENT VLV OUT TEMP	253.10	250.00
01:44:47	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD		NORM
01:44:47	CONT	Z747	RC MU BATCH STOP VLV		NO
01:44:48	NORM	V614	LPT 2 BRG 5 VIB (MILS)	6.02	6.50
01:44:49	NORM	V615	LPT 2 BRG 6 VIB (MILS)	5.56	6.50
01:44:51	CONT	Z840	RPS, SFAS OR SFRCS CABINET DOOR		NORM
01:44:52	CONT	Z840	RPS, SFAS OR SFRCS CABINET DOOR		OPEN
01:44:57	CONT	Z746	RC MU BATCH STOP VLV		CLOS
01:44:59	CONT	L590	LP FW HTR 2-2 LVL		NORM
01:44:59	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL		NTNM
01:45:03	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		OK
01:45:06	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM
1:45: 8	CONT	X955	TREND RECORDER OUT 06		
01:45:11	HIGH	P732	RC LOOP 2 HLG WR PRESS,SFAS CH 2	2273.39	2255.00
01:45:11	CONT	Z468	HP FW HTR 2-5 HI LVL DRN VLV		NC
01:45:12	HIGH	P733	RC LOOP 2 HLG WR PRESS,SFAS CH 4	2264.61	2255.00
01:45:12	FLAG	Q469	HP FW HTR 2-5 HI LVL CONTROL		NTNM
01:45:17	NORM	V603	LPT 1 BRG 4 VIB (MILS)	5.99	6.50
01:45:21	CONT	P922	SFAS CH 4 RC PRESS HI		FAIL
01:45:24	HIGH	F712	RC LOOP 1 HLG FLOW (MPPH)	85.46	62.99
01:45:25	LOW	F713	RC LOOP 2 HLG FLOW (MPPH)	56.11	61.76
01:45:27	CONT	L590	LP FW HTR 2-2 LVL		HIGH
01:45:27	CONT	L771	RC PRZR LVL		HILO
01:45:29	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL		NORM
01:45:32	LOW	T735	RC MU PMP DISCH TEMP	89.04	95.00
01:45:32	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		OK
01:45:35	HIGH	P722	RC LOOP 1 HLG NR PRESS,RPS CH 3	2307.69	2160.00
01:45:35	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM
01:45:35	CONT	Z168	CNDS STRG TK OUT VLV TO LP COND		CLOS
01:45:37	HIGH	P725	RC LOOP 1 HLG WR PRESS,SFAS CH 3	2281.02	2255.00
01:45:38	HIGH	P729	RC LOOP 2 HLG NR PRESS,RPS CH 2	2317.46	2160.00
01:45:38	CONT	P919	SFAS CH 3 RC PRESS HI		FAIL
01:45:50	CONT	S017	AFPT 2 OVERSPEED		NORM
01:45:56	CONT	Q544	ICS SG 2 BTU LIMIT		ON
01:46:01	CONT	L590	LP FW HTR 2-2 LVL		NORM
01:46:02	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL		NTNM
01:46:02	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		OK
01:46:04	HIGH	P721	RC LOOP 1 HLG NR PRESS,RPS CH 1	2340.41	2160.00
01:46:05	CONT	Q544	ICS SG 2 BTU LIMIT		OFF
01:46:05	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM
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01:46:12	CONT	Z013	AFP 2 AUTO-ESEN LVL CTRL XFER SW		TRBL
01:46:16	LOW	J828	RCP 2-1 MTR PWR (MW)	5.48	5.48
01:46:16	NORM	V602	LPT 1 BRG 3 VIB (MILS)	5.93	6.50
01:46:17	CONT	F741	RC MU FLOW		NORM
01:46:24	BAD	V652	MFPT 1 BFP END BRG VIB (MILS)	-0.20	0.00
01:46:27	BAD	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.12	0.00
01:46:27	CONT	L590	LP FW HTR 2-2 LVL		HIGH
01:46:29	CONT	Z961	SG 1 ATM STM VENT VLV		NC
01:46:30	FLAG	Q555	LP FW HTR 2-2 HI LVL DRN CONTROL		NORM
01:46:31	HIGH	L769	RC PRZR AVG LVL (IN)	228.53	213.00
01:46:31	NORM	T720	RC LOOP 1 HLG NR TEMP,RC3B3	571.65	593.85
01:46:33	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		OK
01:46:36	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM

01:46:37	NORM	F740	RC MU FLOW, HIGH RANGE (GPM)	78.31	145.00
01:46:40	NORM	T476	HPT SIDE 1 IN TEMP	546.06	592.20
01:46:41	NORM	C416	MSR 1 2ND STG DTEMP/DTIME (DFPM)	1.99	2.08
01:46:41	NORM	T604	LPT 1 CIV IN STM TEMP UNBAL	0.09	25.00
01:46:41	NORM	T706	RC AVG CLG NR TEMP	566.77	610.00
01:46:42	NORM	C417	MSR 2 2ND STG DTEMP/DTIME (DFPM)	1.59	2.08
01:46:45	NORM	T719	RC LOOP 1 HLG NR TEMP,RC3B1	565.67	593.85
01:46:47	NORM	P481	HPT SIDE 1 IN PRESS FROM SG-2	600.04	900.88
01:46:47	NORM	T726	RC LOOP 2 HLG NR TEMP,RC3A1	568.77	593.85
01:46:48	NORM	P482	HPT SIDE 2 IN PRESS FROM SG-1	600.04	900.88
01:46:48	HIGH	T801	RCP 1-2 DISCH CLG WR TEMP,RC4B4	565.91	534.00
01:46:48	HIGH	T729	RC LOOP 2 HLG NR TEMP,RC3A3	566.31	534.00
01:46:50	NORM	T718	RC LOOP 1 AVG NR TEMP	566.11	9999.00
01:46:50	CONT	Z012	AFP 1 AUTO-ESEN LVL CTRL XFER SW		TRBL
01:46:51	NORM	T721	RC LOOP 1 HLG NR TEMP,RPS CH 1	567.11	593.85
01:46:53	HIGH	T821	RCP 2-1 DISCH CLG WR TEMP,RC4A2	567.15	534.00
01:46:55	HIGH	T476	HPT SIDE 1 IN TEMP	546.64	540.00
01:46:55	HIGH	T780	RCP 1-1 DISCH CLG NR TEMP,RC4B1	568.62	534.00
01:46:56	NORM	F713	RC LOOP 2 HLG FLOW (MPPH)	56.11	64.93
01:46:56	HIGH	T477	HPT SIDE 2 IN TEMP	546.53	540.00
01:46:58	NORM	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.12	1.00
01:46:58	HIGH	T800	RCP 1-2 DISCH CLG NR TEMP,RC4B3	568.59	534.00
01:46:59	NORM	F686	MSR 1 1ST STG DT DRN FLOW (KPPH)	7.84	16.00
01:46:59	HIGH	T820	RCP 2-1 DISCH CLG NR TEMP,RC4A1	568.97	534.00
01:47:00	HIGH	T719	RC LOOP 1 HLG NR TEMP,RC3B1	566.51	534.00
01:47:00	HIGH	T840	RCP 2-2 DISCH CLG NR TEMP,RC4A3	568.98	534.00
01:47:01	HIGH	T733	RC LOOP 2 CLG TEMP	555.84	534.00
01:47:01	HIGH	T720	RC LOOP 1 HLG NR TEMP,RC3B3	573.23	534.00
01:47:02	HIGH	T728	RC LOOP 2 HLG NR TEMP,RC3A1	569.87	534.00
01:47:02	CONT	Z012	AFP 1 AUTO-ESEN LVL CTRL XFER SW		NORM
01:47:03	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		OK
01:47:06	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM
01:47:06	CONT	Z468	HP FW HTR 2-5 HI LVL DRN VLV		CLOS
01:47:09	FLAG	Q469	HP FW HTR 2-5 HI LVL CONTROL		NORM
01:47:12	NORM	T707	RC AVG HLG NR TEMP	567.96	610.00
01:47:14	HIGH	P793	RCP 1-1 2ND SEAL CAVITY PRESS	1605.73	1600.00
01:47:14	NORM	T710	RC AVG TEMP DIFF	0.00	4.00
01:47:16	NORM	T713	RC AVG TEMP	556.06	9999.00
01:47:21	NORM	T722	RC LOOP 1 HLG NR TEMP,RPS CH 3	569.38	593.85
01:47:22	NORM	T723	RC LOOP 1 TEMP DIFF	0.00	4.00
01:47:23	HIGH	T724	RC LOOP 1 CLG TEMP	556.41	534.00
01:47:24	NORM	V652	MFPT 1 BFP END BRG VIB (MILS)	-0.19	1.00
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01:47:24	CONT	Q754	RC MU PMP 1		OFF
01:47:25	HIGH	F713	RC LOOP 2 HLG FLOW (MPPH)	56.11	-818.37
01:47:26	CONT	F816	RCP 1-2 SEAL RET FLOW		HIGH
01:47:26	CONT	Z012	AFP 1 AUTO-ESEN LVL CTRL XFER SW		TRBL
01:47:27	HIGH	T730	RC LOOP 2 HLG NR TEMP,RPS CH 2	569.66	534.00
01:47:27	HIGH	T841	RCP 2-2 DISCH CLG WR TEMP,RC4A4	567.78	534.00
01:47:32	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		OK
01:47:34	CONT	F816	RCP 1-2 SEAL RET FLOW		NORM
01:47:35	BAD	E814	RPS CH 1 SR NI2 HV (VOLTS)	2131.02	300.00
01:47:35	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM
1:47:37	CONT	X955	TREND RECORDER OUT 06		
01:47:41	HIGH	C417	MSR 2 2ND STG DTEMP/DTIME (DFPM)	2.38	2.08
01:47:42	NORM	T709	RC AVG NR TEMP	570.38	9999.00
01:47:42	HIGH	T781	RCP 1-1 DISCH CLG WR TEMP,RC4B2	569.97	534.00
01:47:46	HIGH	T717	RC LOOP 1 AVG CLG NR TEMP	570.81	534.00
01:47:48	CONT	Z970	SG 2 AFW ISO VLV		OPEN
01:47:50	HIGH	T721	RC LOOP 1 HLG NR TEMP,RPS CH 1	570.91	534.00
01:47:52	HIGH	T722	RC LOOP 1 HLG NR TEMP,RPS CH 3	571.29	534.00
01:47:56	HIGH	T726	RC LOOP 2 AVG CLG NR TEMP	571.61	534.00
01:47:57	NORM	T727	RC LOOP 2 AVG NR TEMP	572.09	9999.00
01:47:59	NORM	F610	MN FW 2 FLOW,FT2A1 (KPPH)	1.21	800.00
01:47:59	HIGH	F686	MSR 1 1ST STG DT DRN FLOW (KPPH)	18.81	16.00

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01:48:00 CONT L583  LP FW HTR 1-2 LVL                                  NORM
01:48:00 FLAG Q550  LP FW HTR 1-2 HI LVL DRN CONTROL                   NORM
01:48:01 NORM F612  MN FW 1 FLOW,FT2B1 (KPPH)            5.01           800.00
01:48:01 CONT Z961  SG 1 ATM STM VENT VLV                              CLOS
01:48:02 CONT P448  HP COND PRESS                                      HIGH
01:48:03 CONT L590  LP FW HTR 2-2 LVL                                  NORM
01:48:03 FLAG Q555  LP FW HTR 2-2 HI LVL DRN CONTROL                   NTNM
01:48:03 FLAG S970  T-G RPM < 1200,BREAK COND VACM                      OK
01:48:06 NORM E814  RPS CH 1 SR NI2 HV (VOLTS)        2131.02          9999.00
01:48:06 CONT L583  LP FW HTR 1-2 LVL                                  HIGH
01:48:06 FLAG Q550  LP FW HTR 1-2 HI LVL DRN CONTROL                   NTNM
01:48:06 FLAG S970  T-G RPM < 1200,BREAK COND VACM                      NORM
01:48:07 LOW  P024  AUX STM 235# HDR PRESS            181.84           190.00
 1:48: 8 CONT X955  TREND RECORDER OUT 06
01:48:15 CONT L908  T-G SPE DT LVL                                     LOW
01:48:19 CONT L590  LP FW HTR 2-2 LVL                                  HIGH
01:48:21 FLAG Q555  LP FW HTR 2-2 HI LVL DRN CONTROL                   NORM
01:48:26 CONT Q389  EHC 420 HZ                                         TRBL
01:48:28 BAD  V667  MFPT 2 MFP END BRG VIB (MILS)       -0.11            0.00
01:48:29 HIGH T731  RC LOOP 2 HLG NR TEMP,RPS CH 4      573.77           534.00
01:48:30 NORM T351  CRD VENT FAN IN TEMP ,9185E         102.42           160.00
01:48:30 NORM F611  MN FW 2 FLOW,FT2A2 (KPPH)             7.85           800.00
01:48:31 NORM F720  RC LETDOWN VS MU FLOW (GPM)         -32.74           160.00
01:48:32 NORM F613  MN FW 1 FLOW,FT2B2 (KPPH)           125.04           800.00
01:48:32 HIGH P614  LPT 1 6TH EXT G/E PRES,HTR1-1(A)      2.63             2.50
01:48:33 NORM T735  RC MU PMP DISCH TEMP                 98.63           220.00
01:48:33 FLAG S970  T-G RPM < 1200,BREAK COND VACM                      OK
01:48:36 FLAG S970  T-G RPM < 1200,BREAK COND VACM                      NORM
01:48:42 NORM C417  MSR 2 2ND STG DTEMP/DTIME (DFPM)      1.19             2.08
01:48:49 CONT Z768  RC PRZR RLF VLV/S                                  NC
01:48:52 CONT Q267  CRD WITHDRAW INHIBIT                               ON
 1:48:51:420   SOE   Q841     RPS SU RATE ROD WTHDRWL INHIBIT          INHB
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 1:48:51:745   SOE   Q841     RPS SU RATE ROD WTHDRWL INHIBIT          NORM
01:48:52 CONT Z768  RC PRZR RLF VLV/S                                  CLOS
01:48:53 CONT Q267  CRD WITHDRAW INHIBIT                               OFF
01:48:58 NORM V667  MFPT 2 MFP END BRG VIB (MILS)       -0.11            1.00
01:49:03 HIGH P615  LPT 1 6TH EXT T/E PRES,HTR1-1(A)      2.62             2.50
01:49:03 FLAG S970  T-G RPM < 1200,BREAK COND VACM                      OK
01:49:03 CONT Z319  DEAR HTR 2 PEG STM HDR VLV                         CLOS
01:49:06 CONT P522  LP COND PRESS                                      HIGH
01:49:06 FLAG S970  T-G RPM < 1200,BREAK COND VACM                      NORM
01:49:16 LOW  J808  RCP 1-2 MTR PWR (MW)                  5.41             5.43
01:49:28 CONT Z962  SG 1 AFW ISO VLV                                   OPEN
01:49:30 LOW  T351  CRD VENT FAN IN TEMP ,9185E          49.95            60.00
01:49:33 LOW  T027  AUX STM 235# HDR TEMP               376.54           380.00
01:49:33 FLAG S970  T-G RPM < 1200,BREAK COND VACM                      OK
01:49:36 FLAG S970  T-G RPM < 1200,BREAK COND VACM                      NORM
 1:49:38 CONT X955  TREND RECORDER OUT 06
01:50:03 FLAG S970  T-G RPM < 1200,BREAK COND VACM                      OK
01:50:06 FLAG S970  T-G RPM < 1200,BREAK COND VACM                      NORM
01:50:09 CONT Z768  RC PRZR RLF VLV/S                                  NC
 1:50:10:320   SOE   Q841     RPS SU RATE ROD WTHDRWL INHIBIT          INHB
 1:50:10:650   SOE   Q841     RPS SU RATE ROD WTHDRWL INHIBIT          NORM
01:50:10 CONT Q009  AUX BLR SYS                                        TRBL
01:50:12 CONT Z768  RC PRZR RLF VLV/S                                  CLOS
01:50:13 CONT Q009  AUX BLR SYS                                        NORM
01:50:13 CONT Z961  SG 1 ATM STM VENT VLV                              NC
01:50:15 LOW  J788  RCP 1-1 MTR PWR (MW)                  5.40             5.41
01:50:20 CONT Q009  AUX BLR SYS                                        TRBL
01:50:24 HIGH T070  CC FEED TO LETDOWN HX TEMP           85.59            85.00
01:50:30 NORM T351  CRD VENT FAN IN TEMP ,9185E         144.44           160.00
01:50:33 FLAG S970  T-G RPM < 1200,BREAK COND VACM                      OK
01:50:34 CONT T071  CC FROM CTMT OUT TEMP                              HIGH
01:50:36 NORM T622  LPT 2 3RD EXT TEMP,HTR 2-4           414.04           425.00
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01:50:37 NORM P454  HP FW HTR 1-6 SHELL PRESS              110.35                115.00
01:50:47 CONT Z012  AFP 1 AUTO-ESEN LVL CTRL XFER SW                             NORM
01:50:50 CONT L878  SG 1 FULL RANGE LVL                                          HILO
01:50:51 CONT Z012  AFP 1 AUTO-ESEN LVL CTRL XFER SW                             TRBL
01:51:03 FLAG S970  T-G RPM < 1200,BREAK COND VACM                                OK
01:51:06 FLAG S970  T-G RPM < 1200,BREAK COND VACM                                NORM
01:51:10 BAD  E820  RPS CH 2 SR NI1 HV (VOLTS)            2088.83                300.00
01:51:13 LOW  P931  SG 1 OUT STM PRESS,PT12B1              823.93                850.00
 1:51:20:535   SOE   Q841     RPS SU RATE ROD WTHDRWL INHIBIT          INHB
 1:51:21: 45   SOE   Q841     RPS SU RATE ROD WTHDRWL INHIBIT          NORM
 1:51:21: 85   SOE   P701     SFRCS DP HALF/FULL TRIP ,SG 1            TRIP
01:51:18 CONT Z768  RC PRZR RLF VLV/S                                            NC
 1:51:21:910   SOE   P702     SFRCS DP HALF/FULL TRIP ,SG 2            TRIP
01:51:21 CONT Z674  MN FW 1 STOP VLV                                             NC
01:51:22 LOW  P932  SG 1 OUT STM PRESS,PT12B2              828.40                850.00
01:51:22 CONT P671  SFRCS DP HALF/FULL TRIP ,CH 1                                TRIP
01:51:22 CONT P672  SFRCS DP HALF/FULL TRIP ,CH 2                                TRIP
01:51:22 CONT Z679  MN FW 2 STOP VLV                                             NC
01:51:23 FLAG Q674  MN FW 1 STOP VLV                                             NC
01:51:23 FLAG Q679  MN FW 2 STOP VLV                                             NC
01:51:23 CONT Q986  SUPP MTR                                                     ON
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01:51:24 BAD  V652  MFPT 1 BFP END BRG VIB (MILS)           -0.17                  0.00
01:51:30 CONT P723  RC LOOP 1 HLG PRESS                                          NORM
01:51:30 CONT P731  RC LOOP 2 HLG PRESS                                          NORM
01:51:32 FLAG S970  T-G RPM < 1200,BREAK COND VACM                                OK
01:51:35 FLAG S970  T-G RPM < 1200,BREAK COND VACM                                NORM
 1:51:38:895   SOE   P702     SFRCS DP HALF/FULL TRIP ,SG 2            NORM
 1:51:40:265   SOE   P701     SFRCS DP HALF/FULL TRIP ,SG 1            NORM
01:51:39 NORM E820  RPS CH 2 SR NI1 HV (VOLTS)            2088.83               9999.00
01:51:40 HIGH Z675  MN FW 1 SU CTRL VLV (% OPEN)            15.12                  0.00
01:51:40 CONT P671  SFRCS DP HALF/FULL TRIP ,CH 1                                NORM
01:51:40 CONT P672  SFRCS DP HALF/FULL TRIP ,CH 2                                NORM
01:51:41 NORM P769  RC PRZR PRESS                         2139.33               2255.00
01:51:41 FLAG Q675  MN FW 1 SU CTRL VLV                                          NC
01:51:42 HIGH Z680  MN FW 2 SU CTRL VLV (% OPEN)            10.71                  0.00
01:51:42 CONT Z769  RC PRZR PWR RLF SHUTOFF VLV                                  NO
01:51:43 NORM P793  RCP 1-1 2ND SEAL CAVITY PRESS         1546.67               1600.00
01:51:43 CONT Z772  RC PRZR SPRAY LINE VLV,RC2                                   CLOS
01:51:44 FLAG Q680  MN FW 2 SU CTRL VLV                                          NC
01:51:49 CONT Z462  HP FW HTR 1-5 HI LVL DRN VLV                                 CLOS
01:51:49 CONT Z768  RC PRZR RLF VLV/S                                            CLOS
01:51:50 HIGH P673  MN FW 1 CTRL VLV DP,PDT-5B1(PSI)        99.99                 70.00
01:51:50 FLAG Q463  HP FW HTR 1-5 HI LVL CONTROL                                 NORM
01:51:51 HIGH P674  MN FW 1 CTRL VLV DP,PDT-5B2(PSI)        99.99                 70.00
01:51:53 CONT P718  RC LETDOWN PREFLT DP                                         HIGH
01:51:54 NORM V652  MFPT 1 BFP END BRG VIB (MILS)           -0.17                  1.00
01:51:55 LOW  P942  SUPP DISCH PRESS                        803.22                935.00
01:52:02 FLAG S970  T-G RPM < 1200,BREAK COND VACM                                OK
01:52:04 NORM P721  RC LOOP 1 HLG NR PRESS,RPS CH 1       2095.85               2340.00
01:52:05 NORM P722  RC LOOP 1 HLG NR PRESS,RPS CH 3       2096.92               2160.00
01:52:05 FLAG S970  T-G RPM < 1200,BREAK COND VACM                                NORM
01:52:06 NORM P724  RC LOOP 1 HLG WR PRESS,SFAS CH 1      2106.67               2255.00
01:52:07 NORM P725  RC LOOP 1 HLG WR PRESS,SFAS CH 3      2075.39               2255.00
01:52:09 NORM P730  RC LOOP 2 HLG NR PRESS,RPS CH 4       2104.35               2340.00
01:52:10 NORM P732  RC LOOP 2 HLG WR PRESS,SFAS CH 2      2100.18               2255.00
01:52:11 NORM P733  RC LOOP 2 HLG WR PRESS,SFAS CH 4      2091.41               2255.00
01:52:12 LOW  P054  BFP 2 HEAD RISE (FT)                    -0.14                  0.00
01:52:24 CONT P595  LPT EXH VACM TRIP BFLLOWS                                    TRBL
01:52:24 CONT P675  LOW FEEDWATER FLOW ALARM                                     NORM
01:52:25 NORM P942  SUPP DISCH PRESS                        975.35               9999.00
01:52:29 LOW  T351  CRD VENT FAN IN TEMP ,9185E             49.95                 60.00
01:52:33 FLAG S970  T-G RPM < 1200,BREAK COND VACM                                OK
01:52:33 CONT Z772  RC PRZR SPRAY LINE VLV,RC2                                   NC
01:52:36 HIGH P722  RC LOOP 1 HLG NR PRESS,RPS CH 3       2165.03               2160.00
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01:52:38	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM
1:52:38	CONT	X955	TREND RECORDER OUT 06		
01:52:53	CONT	P675	LOW FEEDWATER FLOW ALARM		TRBL
01:52:53	CONT	Z002	AFPT 2 STOP VLV		OPEN
01:53:02	HIGH	T101	CC RET FROM LETDOWN HX 1 TEMP	153.98	150.00
01:53:03	HIGH	T102	CC RET FROM LETDOWN HX 2 TEMP	154.60	150.00
01:53:03	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		OK
01:53:06	NORM	P722	RC LOOP 1 HLG NR PRESS,RPS CH 3	2181.41	2340.00
01:53:06	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM
01:53:07	HIGH	T770	RC PRZR PRESS RLF OUT TMP,RC12-2	250.00	250.00
1:53: 8	CONT	X955	TREND RECORDER OUT 06		
01:53:09	NORM	P729	RC LOOP 2 HLG NR PRESS,RPS CH 2	2185.51	2340.00
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01:53:12	FLAG	Q166	CNDS PMP RECIRC VLV		NC
01:53:19	CONT	P718	RC LETDOWN PREFLT DP		NORM
01:53:33	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		OK
01:53:35	CONT	P595	LPT EXH VACM TRIP BELLOWS		NORM
01:53:35	CONT	P596	LPT EXH VACM TURB TRIP		TRIP
01:53:36	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM
01:53:36	CONT	Z772	RC PRZR SPRAY LINE VLV,RC2		CLOS
01:53:41	CONT	P718	RC LETDOWN PREFLT DP		HIGH
01:53:43	NORM	P931	SG 1 OUT STM PRESS,PT12B1	871.91	1100.00
01:53:46	HIGH	T662	MFPT 2 EXH TEMP	150.74	150.00
1:53:48	CONT	X957	TREND RECORDER OUT 08		
01:53:51	CONT	Z002	AFPT 2 STOP VLV		NO
01:53:54	CONT	P723	RC LOOP 1 HLG PRESS		HILO
01:53:56	LOW	P769	RC PRZR PRESS	2054.17	2055.00
01:53:56	CONT	P731	RC LOOP 2 HLG PRESS		HILO
01:53:56	CONT	Z769	RC PRZR PWR RLF SHUTOFF VLV		OPEN
01:53:58	CONT	Z969	SG 2 ATM STM VENT VLV		NC
01:53:59	CONT	L878	SG 1 FULL RANGE LVL		NORM
01:54:02	NORM	T101	CC RET FROM LETDOWN HX 1 TEMP	132.56	150.00
01:54:03	NORM	T102	CC RET FROM LETDOWN HX 2 TEMP	134.58	150.00
01:54:03	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		OK
01:54:05	CONT	T712	RC CLG LOOP 1 VS 2 TEMP DIFF		HILO
01:54:06	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM
01:54:08	LOW	P725	RC LOOP 1 HLG WR PRESS,SFAS CH 3	2041.05	2055.00
01:54:11	LOW	P732	RC LOOP 2 HLG WR PRESS,SFAS CH 2	2048.68	2055.00
01:54:12	LOW	P733	RC LOOP 2 HLG WR PRESS,SFAS CH 4	2034.18	2055.00
01:54:13	LOW	Z680	MN FW 2 SU CTRL VLV (% OPEN)	-1.54	2.00
01:54:15	FLAG	Q680	MN FW 2 SU CTRL VLV		NORM
01:54:17	CONT	Q754	RC MU PMP 1		ON
01:54:18	CONT	Q418	ESSEN BUS C1 CTRL PWR		TRBL
01:54:19	CONT	Q416	ESSEN BUS C1 CTRL PWR		NORM
01:54:23	NORM	P932	SG 1 OUT STM PRESS,PT12B2	899.82	1100.00
01:54:27	HIGH	S018	AFPT 2 SPD (RPM)	3710.52	3600.00
01:54:31	CONT	P718	RC LETDOWN PREFLT DP		NORM
01:54:33	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		OK
01:54:35	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM
01:54:36	LOW	P724	RC LOOP 1 HLG WR PRESS,SFAS CH 1	1986.11	2055.00
1:54:38	CONT	X955	TREND RECORDER OUT 06		
01:54:45	LOW	T711	RC CLG LOOP 1 VS 2 TEMP DIFF	-7.47	-5.20
01:54:51	NORM	P673	MN FW 1 CTRL VLV DP,PDT-5B1(PSI)	29.94	70.00
01:54:52	NORM	P674	MN FW 1 CTRL VLV DP,PDT-5B2(PSI)	32.06	70.00
01:54:57	NORM	S018	AFPT 2 SPD (RPM)	3399.21	3600.00
01:55:02	HIGH	T101	CC RET FROM LETDOWN HX 1 TEMP	154.75	150.00
01:55:03	HIGH	P001	AFP 1 DISCH PRESS	1019.08	973.45
01:55:03	HIGH	T102	CC RET FROM LETDOWN HX 2 TEMP	150.59	150.00
01:55:03	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		OK
01:55:05	CONT	T712	RC CLG LOOP 1 VS 2 TEMP DIFF		NORM
01:55:06	FLAG	S970	T-G RPM < 1200,BREAK COND VACM		NORM
01:55:12	CONT	F781	RCP SEAL IN TOTAL FLOW		HILO
01:55:13	CONT	F781	RCP SEAL IN TOTAL FLOW		NORM
01:55:18	CONT	F781	RCP SEAL IN TOTAL FLOW		HILO
01:55:18	CONT	Q544	ICS SG 2 RTU LIMIT		ON

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01:55:20 CONT F781  RCP SEAL IN TOTAL FLOW                                  HILO
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01:55:23 HIGH P678  MN FW 2 CTRL VLV DP,PDT-5A1(PSI)          70.77          70.00
01:55:23 HIGH T723  RC LOOP 1 TEMP DIFF                        5.33           4.00
01:55:24 HIGH P679  MN FW 2 CTRL VLV DP,PDT-5A2(PSI)          82.22          70.00
01:55:26 CONT P675  LOW FEEDWATER FLOW ALARM                                NORM
01:55:27 CONT F781  RCP SEAL IN TOTAL FLOW                                  NORM
01:55:29 CONT F741  RC MU FLOW                                              HIGH
01:55:32 NORM T101  CC RET FROM LETDOWN HX 1 TEMP              110.84         150.00
01:55:33 NORM P001  AFP 1 DISCH PRESS                         1035.56        1093.95
01:55:33 NORM T102  CC RET FROM LETDOWN HX 2 TEMP              110.42         150.00
01:55:33 LOW  T735  RC MU PMP DISCH TEMP                       94.60          95.00
01:55:33 FLAG S970  T-G RPM < 1200,BREAK COND VACM                           OK
01:55:36 FLAG S970  T-G RPM < 1200,BREAK COND VACM                           NORM
 1:55:38 CONT X955  TREND RECORDER OUT 06
01:55:41 LOW  Z675  MN FW 1 SU CTRL VLV (% OPEN)               0.06           2.00
01:55:42 FLAG Q675  MN FW 1 SU CTRL VLV                                     NORM
01:55:44 HIGH T710  RC AVG TEMP DIFF                           5.24           4.00
01:55:45 NORM J788  RCP 1-1 MTR PWR (MW)                       5.45           6.34
01:55:45 NORM T711  RC CLG LOOP 1 VS 2 TEMP DIFF              -2.15           4.80
 1:55:48 CONT X957  TREND RECORDER OUT 08
01:55:51 HIGH P673  MN FW 1 CTRL VLV DP,PDT-5B1(PSI)           99.97          70.00
01:55:52 HIGH P674  MN FW 1 CTRL VLV DP,PDT-5B2(PSI)           99.99          70.00
01:55:54 HIGH F740  RC MU FLOW, HIGH RANGE (GPM)              159.99         145.00
01:55:55 BAD  V652  MFPT 1 BFP END BRG VIB (MILS)              -0.18           0.00
01:55:55 CONT P002  AFP 1 IN STRNR DP                                       HIGH
01:55:56 CONT P002  AFP 1 IN STRNR DP                                       NORM
01:56:03 FLAG S970  T-G RPM < 1200,BREAK COND VACM                           OK
 1:56: 8 CONT X955  TREND RECORDER OUT 06
01:56:06 FLAG S970  T-G RPM < 1200,BREAK COND VACM                           NORM
01:56:08 CONT Z001  AFPT 1 STOP VLV                                         OPEN
01:56:12 FLAG Q166  CNDS PMP RECIRC VLV                                     NORM
01:56:13 LOW  P736  RC MU PMP DISCH PRESS                     2275.36        2400.00
01:56:16 NORM J808  RCP 1-2 MTR PWR (MW)                       5.48           6.38
01:56:18 LOW  P648  MFP 2 HEAD RISE (FT)                      -0.14           0.00
01:56:19 LOW  P834  RCP 2-1 3RD SEAL CAVITY PRESS              569.38         570.00
01:56:22 NORM T442  HP COND CIRC WTR BOX 1 OUT TEMP            89.63          91.93
01:56:23 NORM T187  CNDS SJAE OUT TEMP                         106.24         109.00
01:56:33 FLAG S970  T-G RPM < 1200,BREAK COND VACM                           OK
01:56:36 FLAG S970  T-G RPM < 1200 BREAK COND VACM                           NORM
 1:56:38 CONT X955  TREND RECORDER OUT 06
01:56:47 LOW  P814  RCP 1-2 3RD SEAL CAVITY PRESS              561.29         570.00
01:56:51 LOW  P854  RCP 2-2 3RD SEAL CAVITY PRESS              560.68         570.00
01:56:55 NORM V652  MFPT 1 BFP END BRG VIB (MILS)              -0.17           1.00
01:56:56 HIGH S006  AFPT 1 SPD (RPM)                          3602.17        3600.00
01:56:58 NORM T925  SW PMP 2 MTR STATOR TEMP                   238.85         245.00
01:56:58 CONT P885  SFAS CH 2 RC < 1800# BLK PERMIT                         OK
01:57:03 FLAG S970  T-G RPM < 1200,BREAK COND VACM                           OK
01:57:06 FLAG S970  T-G RPM < 1200,BREAK COND VACM                           NORM
 1:57: 8 CONT X955  TREND RECORDER OUT 06
01:57:12 CONT P887  SFAS CH 3 RC < 1800# BLK PERMIT                         OK
01:57:17 NORM J848  RCP 2-2 MTR PWR (MW)                       5.55           6.41
01:57:22 CONT L685  SG 1 SU RANGE LVL                                       NORM
01:57:26 LOW  F713  RC LOOP 2 HLG FLOW (MPPH)                 31.40          37.81
01:57:26 CONT P889  SFAS CH 4 RC < 1800# BLK PERMIT                         OK
01:57:27 CONT L771  RC PRZR LVL                                             NORM
01:57:30 CONT L760  RC MU TK LVL,MU16-1                                     NORM
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01:57:33 CONT L762  RC MU TK LVL,MU16-2                                     NORM
01:57:33 FLAG S970  T-G RPM < 1200,BREAK COND VACM                           OK
01:57:36 FLAG S970  T-G RPM < 1200,BREAK COND VACM                           NORM
01:57:37 CONT L895  SG 2 SU RANGE LVL                                       NORM
01:57:44 CONT P883  SFAS CH 1 RC < 1800# BLK PERMIT                         OK
01:57:53 CONT P006  AFP 1 SUCT PRESS                                        LOW
01:57:57 NORM T434  CNDS PMP 3 MTR UPR BRG OT                 155.72         160.00
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01:58:02 FLAG S970  T-G RPM < 1200,BREAK COND VACM                          OK
01:58:04 CONT Z480  HP INJ 1-1 VLV                                         NC
01:58:05 FLAG Q480  HP INJ 1-1 VLV                                         NC
01:58:05 FLAG S970  T-G RPM < 1200,BREAK COND VACM                          NORM
01:58:07 HIGH T771  RC PRZR PRESS RLF OUT TMP,RC12-3          251.51       250.00
 1:58: 7 CONT X955  TREND RECORDER OUT 06
01:58:14 NORM L761  RC MU TK LVL,MU16-1 (IN)                   55.99        88.00
01:58:15 NORM L769  RC PRZR AVG LVL (IN)                      203.39       227.00
01:58:21 CONT F463  HP INJ 1-1 FLOW                                        LOW
01:58:21 CONT F466  HP INJ 1-2 FLOW                                        LOW
01:58:21 CONT Q472  HP INJ PMP 1 DC LUBE OIL PMP                           ON
01:58:21 CONT Z474  HP INJ PMP 1                                           ON
01:58:22 CONT P465  HP INJ VLV IN PRESS                                    HIGH
01:58:22 CONT Q472  HP INJ PMP 1 DC LUBE OIL PMP                           OFF
01:58:23 CONT F466  HP INJ 1-2 FLOW                                        NORM
01:58:24 CONT F466  HP INJ 1-2 FLOW                                        LOW
01:58:27 BAD  V667  MFPT 2 MFP END BRG VIB (MILS)              -0.10        0.00
01:58:27 CONT P006  AFP 1 SUCT PRESS                                       NORM
01:58:28 NORM T610  LPT 1 3RD EXT TEMP,HTR 1-4                 414.27       425.00
01:58:28 CONT Z961  SG 1 ATM STM VENT VLV                                  CLOS
01:58:30 CONT F596  LP INJ 1 FLOW                                          LOW
01:58:30 CONT Z339  DH PMP 1                                               ON
01:58:31 NORM L763  RC MU TK LVL,MU16-2 (IN)                   57.20        88.00
01:58:31 CONT P548  LP INJ VLV IN PRESS                                    HIGH
01:58:32 FLAG Q548  LP INJ VLV LEAKING                                     TRBL
01:58:32 FLAG S970  T-G RPM < 1200,BREAK COND VACM                          OK
01:58:35 CONT Q488  HP INJ PMP 1 RECIRC VLV                                NC
01:58:35 FLAG S970  T-G RPM < 1200,BREAK COND VACM                          NORM
01:58:37 CONT F463  HP INJ 1-1 FLOW                                        NORM
 1:58:37 CONT X955  TREND RECORDER OUT 06
01:58:39 CONT Z001  AFPT 1 STOP VLV                                        NO
01:58:40 CONT P008  AFP 1 SUCT XFER TO SW OR PSL                           TRBL
01:58:48 CONT F463  HP INJ 1-1 FLOW                                        LOW
01:58:55 NORM S008  AFPT 1 SPD (RPM)                          3258.05      3600.00
01:58:57 LOW  F857  RC LOOP 1 HLG FLOW (MPPH)                  72.65       103.00
01:58:57 NORM V667  MFPT 2 MFP END BRG VIB (MILS)              -0.10         1.00
01:58:57 CONT S007  AFPT 1 OVERSPEED                                       NORM
01:59:02 FLAG S970  T-G RPM < 1200,BREAK COND VACM                          OK
01:59:04 CONT P883  SFAS CH 1 RC < 1800# BLK PERMIT                        NORM
01:59:05 FLAG S970  T-G RPM < 1200,BREAK COND VACM                          NORM
01:59:09 LOW  F490  HP INJ 1-2 FLOW (GPM)                      15.63        80.00
01:59:10 CONT P885  SFAS CH 2 RC < 1800# BLK PERMIT                        NORM
01:59:13 NORM T710  RC AVG TEMP DIFF                            2.59         4.00
01:59:18 CONT P887  SFAS CH 3 RC < 1800# BLK PERMIT                        NORM
01:59:20 CONT F781  RCP SEAL IN TOTAL FLOW                                 HILO
01:59:22 CONT F741  RC MU FLOW                                             NORM
01:59:23 NORM T723  RC LOOP 1 TEMP DIFF                         3.17         4.00
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01:59:23 CONT F781  RCP SEAL IN TOTAL FLOW                                 NORM
01:59:25 CONT F741  RC MU FLOW                                             HIGH
01:59:27 CONT P889  SFAS CH 4 RC < 1800# BLK PERMIT                        NORM
01:59:29 CONT F781  RCP SEAL IN TOTAL FLOW                                 HILO
01:59:30 CONT F741  RC MU FLOW                                             NORM
01:59:32 CONT F781  RCP SEAL IN TOTAL FLOW                                 NORM
01:59:33 FLAG S970  T-G RPM < 1200,BREAK COND VACM                          OK
01:59:33 CONT T071  CC FROM CTMT OUT TEMP                                  NORM
01:59:35 CONT Z969  SG 2 ATM STM VENT VLV                                  CLOS
01:59:36 FLAG S970  T-G RPM < 1200,BREAK COND VACM                          NORM
01:59:37 CONT F781  RCP SEAL IN TOTAL FLOW                                 HILO
01:59:41 HIGH P626  LPT 2 6TH EXT G/E PRES,HTR2-1(A)            1.54         1.50
01:59:42 CONT P765  RC MU TK PRESS                                         NORM
01:59:43 NORM P736  RC MU PMP DISCH PRESS                    2543.10      9999.00
01:59:43 CONT F781  RCP SEAL IN TOTAL FLOW                                 NORM
01:59:54 NORM F740  RC MU FLOW, HIGH RANGE (GPM)               23.72       135.00
01:59:58 LOW  F587  LP INJ 1 FLOW (GPM)                        87.60      2850.00
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02:00:01	CONT	F781	RCP SEAL IN TOTAL FLOW			HILO
02:00:03	CONT	F781	RCP SEAL IN TOTAL FLOW			NORM
02:00:03	FLAG	S970	T-G RPM < 1200,BREAK COND VACM			OK
02:00:04	CONT	F781	RCP SEAL IN TOTAL FLOW			HILO
02:00:05	CONT	F781	RCP SEAL IN TOTAL FLOW			NORM
02:00:06	CONT	F781	RCP SEAL IN TOTAL FLOW			HILO
02:00:06	FLAG	S970	T-G RPM < 1200,BREAK COND VACM			NORM
02:00:07	CONT	F781	RCP SEAL IN TOTAL FLOW			NORM
02:00:12	CONT	F781	RCP SEAL IN TOTAL FLOW			HILO
02:00:13	CONT	F781	RCP SEAL IN TOTAL FLOW			NORM
02:00:14	CONT	F781	RCP SEAL IN TOTAL FLOW			HILO
02:00:15	CONT	F781	RCP SEAL IN TOTAL FLOW			NORM
02:00:16	CONT	F781	RCP SEAL IN TOTAL FLOW			HILO
02:00:17	CONT	F781	RCP SEAL IN TOTAL FLOW			NORM
02:00:17	CONT	F781	RCP SEAL IN TOTAL FLOW			HILO
02:00:19	CONT	F781	RCP SEAL IN TOTAL FLOW			NORM
02:00:21	CONT	F781	RCP SEAL IN TOTAL FLOW			HILO
02:00:23	CONT	F781	RCP SEAL IN TOTAL FLOW			NORM
02:00:31	LOW	F720	RC LETDOWN VS MU FLOW (GPM)	22.48		23.29
02:00:31	CONT	P008	AFP 1 SUCT XFER TO SW OR PSL			NORM
02:00:33	FLAG	S970	T-G RPM < 1200,BREAK COND VACM			OK
02:00:36	BAD	E814	RPS CH 1 SR NI2 HV (VOLTS)	2132.19		300.00
02:00:36	FLAG	S970	T-G RPM < 1200,BREAK COND VACM			NORM
2: 0:48	CONT	X957	TREND RECORDER OUT 08			
02:01:03	FLAG	S970	T-G RPM < 1200,BREAK COND VACM			OK
02:01:06	NORM	E814	RPS CH 1 SR NI2 HV (VOLTS)	2132.19		9999.00
02:01:06	FLAG	S970	T-G RPM < 1200,BREAK COND VACM			NORM
2: 1: 8	CONT	X955	TREND RECORDER OUT 06			
02:01:11	CONT	Z013	AFP 2 AUTO-ESEN LVL CTRL XFER SW			NORM
02:01:24	CONT	Z013	AFP 2 AUTO-ESEN LVL CTRL XFER SW			TRBL
02:01:31	HIGH	P613	LPT 1 5TH EXT T/E PRES,HTR1-2(A)	5.57		5.50
02:01:33	FLAG	S970	T-G RPM < 1200,BREAK COND VACM			OK
02:01:35	CONT	Q545	ICS SG 2 LO LVL LIMIT			OFF
02:01:36	FLAG	S970	T-G RPM < 1200,BREAK COND VACM			NORM
02:01:39	HIGH	P624	LPT 2 5TH EXT G/E PRES,HTR2-2(A)	5.54		5.50
02:01:40	HIGH	P625	LPT 2 5TH EXT T/E PRES,HTR2-2(A)	5.52		5.50
02:01:47	NORM	P814	RCP 1-2 3RD SEAL CAVITY PRESS	592.88		970.00
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02:01:48	LOW	J848	RCP 2-2 MTR PWR (MW)	5.61		5.62
02:01:48	CONT	L771	RC PRZR LVL			HILO
02:01:49	NORM	P834	RCP 2-1 3RD SEAL CAVITY PRESS	590.89		970.00
02:01:50	NORM	P854	RCP 2-2 3RD SEAL CAVITY PRESS	594.25		970.00
02:01:56	CONT	Q754	RC MU PMP 1			OFF
02:01:58	CONT	Z002	AFPT 2 STOP VLV			OPEN
02:02:00	HIGH	P612	LPT 1 5TH EXT G/E PRES,HTR1-2(A)	5.59		5.50
02:02:03	FLAG	S970	T-G RPM < 1200,BREAK COND VACM			OK
02:02:06	FLAG	S970	T-G RPM < 1200,BREAK COND VACM			NORM
02:02:22	CONT	Q545	ICS SG 2 LO LVL LIMIT			ON
02:02:31	HIGH	L769	RC PRZR AVG LVL (IN)	214.04		213.00
02:02:33	FLAG	S970	T-G RPM < 1200,BREAK COND [illegible]			OK
2: 2:46:990	SOE	Q634	MFPT 2		TRIP	
02:02:36	FLAG	S970	T-G RPM < 1200,BREAK [illegible]			NORM
02:02:48	CONT	F050	BFP 2 DISCH FLOW			NORM
02:02:48	CONT	Q001	ARTS IN FROM MFPT			TRIP
02:02:48	CONT	Q543	ICS SG 1 LO LVL LIMIT			OFF
02:02:48	CONT	Q545	ICS SG 2 LO LVL LIMIT			OFF
02:02:52	CONT	Z611	MFP 2 DISCH NRV			CLOS
02:02:57	BAD	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.11		0.00
02:03:03	NORM	T735	RC MU PMP DISCH TEMP	100.32		220.00
02:03:03	FLAG	S970	T-G RPM < 1200,BREAK COND VACM			OK
02:03:06	FLAG	S970	T-G RPM < 1200,BREAK COND VACM			NORM
02:03:06	CONT	Z969	SG 2 ATM STM VENT VLV			NC
02:03:15	CONT	Z961	SG 1 ATM STM VENT VLV			NC
02:03:23	NORM	T070	CC FEED TO LETDOWN HX TEMP	82.46		85.00
[illegible]	CONT	P771	RC LOOP 2 HLG PRESS			NORM

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02:03:23 CONT Z961  SG 1 ATM STM VENT VLV                                CLOS
02:03:23 CONT Z969  SG 2 ATM STM VENT VLV                                CLOS
02:03:24 LOW  F712  RC LOOP 1 HLG FLOW (MPPH)          98.35             102.78
02:03:24 CONT P731  RC LOOP 2 HLG PRESS                                  HILO
02:03:24 CONT Q543  ICS SG 1 LO LVL LIMIT                                ON
02:03:25 CONT P731  RC LOOP 2 HLG PRESS                                  NORM
02:03:26 NORM F714  RC HLG TOTAL FLOW (MPPH)           147.00            230.11
02:03:26 CONT P731  RC LOOP 2 HLG PRESS                                  HILO
02:03:27 CONT P731  RC LOOP 2 HLG PRESS                                  NORM
02:03:28 CONT P731  RC LOOP 2 HLG PRESS                                  HILO
02:03:29 NORM T351  CRD VENT FAN IN TEMP ,9185E        64.56             160.00
02:03:29 CONT P731  RC LOOP 2 HLG PRESS                                  NORM
02:03:31 CONT Z961  SG 1 ATM STM VENT VLV                                NC
02:03:31 CONT Z969  SG 2 ATM STM VENT VLV                                NC
02:03:32 FLAG S970  T-G RPM < 1200,BREAK COND VACM                        OK
02:03:35 FLAG S970  T-G RPM < 1200,BREAK COND VACM                        NORM
02:03:46 NORM T663  MFPT 2 HP STOP VLV CHEST TEMP      468.63            9999.00
02:03:56 CONT Z468  HP FW HTR 2-5 HI LVL DRN VLV                         NC
02:03:57 NORM V667  MFPT 2 MFP END BRG VIB (MILS)      -0.10               1.00
02:03:59 FLAG Q469  HP FW HTR 2-5 HI LVL CONTROL                         NTNM
02:04:00 CONT P731  RC LOOP 2 HLG PRESS                                  HILO
02:04:02 FLAG S970  T-G RPM < 1200,BREAK COND VACM                        OK
02:04:06 FLAG S970  T-G RPM < 1200,BREAK COND VACM                        NORM
02:04:26 LOW  F714  RC HLG TOTAL FLOW (MPPH)           147.00            219.63
02:04:29 LOW  T351  CRD VENT FAN IN TEMP ,9185E        49.95              60.00
02:04:32 FLAG S970  T-G RPM < 1200,BREAK COND VACM                        OK
02:04:32 CONT Z466  HP FW HTR 2-4 HI LVL DRN VLV                         NC
02:04:35 FLAG Q467  HP FW HTR 2-4 HI LVL CONTROL                         NTNM
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02:04:35 FLAG S970  T-G RPM < 1200,BREAK COND VACM                        NORM
02:04:36 NORM T950  TURB BYPASS VLV 2-1 OUT TEMP       7.78              250.00
 2: 4:37 CONT X955  TREND RECORDER OUT 06
02:04:42 LOW  T607  LPT 2 CIV IN STM TEMP UNBAL        -0.20               0.00
02:05:02 FLAG S970  T-G RPM < 1200,BREAK COND VACM                        OK
02:05:05 FLAG S970  T-G RPM < 1200,BREAK COND VACM                        NORM
02:05:06 CONT L595  LPT 1 4TH EXT LINE LVL , DEAR 1                      NORM
 2: 5: 7 CONT X955  TREND RECORDER OUT 06
02:05:30 NORM F720  RC LETDOWN VS MU FLOW (GPM)        -28.73             41.25
02:05:32 FLAG S970  T-G RPM < 1200,BREAK COND VACM                        OK
02:05:35 FLAG S970  T-G RPM < 1200,BREAK COND VACM                        NORM
02:05:59 FLAG Q633  MFPT 2                                               OFF
02:06:02 FLAG S970  T-G RPM < 1200,BREAK COND VACM                        OK
02:06:05 FLAG S970  T-G RPM < 1200,BREAK COND VACM                        NORM
02:06:16 NORM F665  MFPT 2 LP STM FLOW (KPPH)          2.83              9999.00
02:06:17 HIGH F051  BFP 2 DISCH FLOW (KPPH)          899.19               800.00
02:06:18 NORM P648  MFP 2 HEAD RISE (FT)              -2.20              1899.86
02:06:20 HIGH P151  CNDS DEMIN SYSTEM IN PRESS        300.86               300.00
02:06:36 CONT L620  MFP SEAL WATER DT LVL                                NORM
 2: 6:37 CONT X955  TREND RECORDER OUT 06
02:06:42 NORM P054  BFP 2 HEAD RISE (FT)              -1.00               574.96
02:06:46 NORM P644  MFP 2 DISCH PRESS                 64.78               980.00
02:06:57 BAD  V667  MFPT 2 MFP END BRG VIB (MILS)     -0.11                 0.00
02:06:59 CONT Z468  HP FW HTR 2-5 HI LVL DRN VLV                         CLOS
02:07:01 CONT L161  CNDS PMP SEAL WTR DT LVL                             HILO
02:07:02 FLAG Q469  HP FW HTR 2-5 HI LVL CONTROL                         NORM
02:07:10 CONT F741  RC MU FLOW                                           HIGH
02:07:21 HIGH P160  CNDS PMP DISCH HDR PRESS          335.54               335.00
02:07:22 CONT F741  RC MU FLOW                                           NORM
02:07:24 HIGH F740  RC MU FLOW, HIGH RANGE (GPM)      154.82               145.00
02:07:28 NORM V667  MFPT 2 MFP END BRG VIB (MILS)     -0.11                 1.00
 2: 7:37 CONT X955  TREND RECORDER OUT 06
02:07:38 NORM F740  RC MU FLOW, HIGH RANGE (GPM)      133.96               145.00
02:07:43 LOW  P736  RC MU PMP DISCH PRESS            2359.42              2400.00
02:07:59 CONT P731  RC LOOP 2 HLG PRESS                                  NORM
02:08:11 CONT P723  RC LOOP 1 HLG PRESS                                  NORM
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02:08:30	NORM	T351	CRD VENT FAN IN TEMP ,9185E	80.16	150.00
02:08:42	NORM	P736	RC MU PMP DISCH PRESS	2654.80	9999.00
02:08:44	CONT	P161	CNDS PMP DISCH HDR PRESS		HILO
02:08:50	NORM	T675	MSR 1 MOIS SEP DT OUT TEMP	291.77	300.00
02:08:54	HIGH	T070	CC FEED TO LETDOWN HX TEMP	85.22	85.00
02:08:58	NORM	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.10	1.00
2: 9: 7	CONT	X955	TREND RECORDER OUT 06		
02:09:13	CONT	Z468	HP FW HTR 2-5 HI LVL DRN VLV		NC
02:09:14	FLAG	Q469	HP FW HTR 2-5 HI LVL CONTROL		NTNM
02:09:20	NORM	T441	HP COND CIRC WTR BOX 1 IN TEMP	86.85	89.15
02:09:21	CONT	F463	HP INJ 1-1 FLOW		NORM
02:09:21	CONT	F466	HP INJ 1-2 FLOW		NORM
02:09:21	CONT	Z474	HP INJ PMP 1		OFF
02:09:22	LOW	P600	LPT 2 CIV 4 STRNR DP (PSI)	-0.30	0.00
02:09:22	CONT	Z570	LPT EXH HOOD SPRAY VLV		NC
02:09:23	FLAG	Q479	HP INJ VLV LEAKING		TRBL
02:09:24	HIGH	F712	RC LOOP 1 HLG FLOW (MPPH)	862.47	154.62
02:09:24	CONT	F596	LP INJ 1 FLOW		NORM
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02:09:24	CONT	Z339	DH PMP 1		OFF
02:09:27	CONT	P548	LP INJ VLV IN PRESS		NORM
02:09:29	LOW	T351	CRD VENT FAN IN TEMP ,9185E	49.95	60.00
02:09:29	FLAG	Q548	LP INJ VLV LEAKING		NORM
02:09:41	CONT	Q488	HP INJ PMP 1 RECIRC VLV		NORM
02:09:45	CONT	Z480	HP INJ 1-1 VLV		CLOS
02:09:46	FLAG	Q480	HP INJ 1-1 VLV		NORM
02:09:52	CONT	P723	RC LOOP 1 HLG PRESS		HILO
2: 9:52	CONT	X955	TREND RECORDER OUT 06		
02:09:59	CONT	P723	RC LOOP 1 HLG PRESS		NORM
02:10:00	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:10:03	CONT	P723	RC LOOP 1 HLG PRESS		NORM
02:10:04	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:10:06	CONT	P723	RC LOOP 1 HLG PRESS		NORM
02:10:07	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:10:08	CONT	P723	RC LOOP 1 HLG PRESS		NORM
2:10: 8	CONT	X955	TREND RECORDER OUT 06		
02:10:11	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:10:12	CONT	P723	RC LOOP 1 HLG PRESS		NORM
02:10:13	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:10:14	CONT	P723	RC LOOP 1 HLG PRESS		NORM
02:10:14	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:10:21	CONT	P723	RC LOOP 1 HLG PRESS		NORM
02:10:23	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:10:26	HIGH	F714	RC HLG TOTAL FLOW (MPPH)	147.00	-173.84
02:10:26	CONT	P723	RC LOOP 1 HLG PRESS		NORM
02:10:27	NORM	F593	LP INJ 1 FLOW (GPM)	71.42	3850.00
02:10:28	NORM	F460	HP INJ 1-1 FLOW (GPM)	35.59	460.00
02:10:32	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:10:34	CONT	P723	RC LOOP 1 HLG PRESS		NORM
02:10:35	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:10:36	CONT	P723	RC LOOP 1 HLG PRESS		NORM
02:10:42	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:10:43	CONT	P723	RC LOOP 1 HLG PRESS		NORM
02:10:54	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:10:57	HIGH	F857	RC LOOP 1 HLG FLOW (MPPH)	74.88	-2915.53
02:10:57	CONT	P723	RC LOOP 1 HLG PRESS		NORM
02:10:57	CONT	Q975	UNIT INSTR AIR DRYERS		TRBL
02:10:58	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:10:58	CONT	Q975	UNIT INSTR AIR DRYERS		NORM
02:10:58	CONT	Z468	HP FW HTR 2-5 HI LVL DRN VLV		CLOS
02:10:59	CONT	P723	RC LOOP 1 HLG PRESS		NORM
02:10:59	FLAG	Q469	HP FW HTR 2-5 HI LVL CONTROL		NORM
02:11:07	CONT	P723	RC LOOP 1 HLG PRESS		HILO
02:11:08	CONT	P723	RC LOOP 1 HLG PRESS		NORM
2:11: 8	CONT	X955	TREND RECORDER OUT 06		

02:11:10	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:11	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:11:11	CONT	Q009	AUX BLR SYS			TRBL
02:11:12	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:13	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:11:14	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:15	CONT	P723	RC LOOP 1 HLG PRESS			HILO
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02:11:15	CONT	Q009	AUX BLR SYS			NORM
02:11:16	CONT	Q009	AUX BLR SYS			TRBL
02:11:17	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:17	CONT	Q009	AUX BLR SYS			NORM
02:11:18	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:11:21	LOW	P598	LPT 1 CIV 2 STRNR DP	(PSI)	-0.07	0.00
02:11:23	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:25	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:11:27	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:30	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:11:31	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:32	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:11:33	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:34	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:11:37	NORM	P024	AUX STM 235# HDR PRESS		196.08	280.00
02:11:42	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:43	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:11:44	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:50	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:11:51	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:54	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:11:55	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:57	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:11:58	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:11:59	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:12:00	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:12:01	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:12:01	CONT	Q545	ICS SG 2 LO LVL LIMIT			ON
02:12:02	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:12:03	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:12:04	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:12:05	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:12:06	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:12:07	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:12:08	CONT	P723	RC LOOP 1 HLG PRESS			NORM
2:12: 8	CONT	X955	TREND RECORDER OUT 06			
02:12:09	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:12:10	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:12:11	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:12:12	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:12:13	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:12:14	CONT	P723	RC LOOP 1 HLG PRESS			NORM
02:12:18	CONT	T071	CC FROM CTMT OUT TEMP			HIGH
02:12:19	NORM	T439	HP COND CIRC WTR BOX 2 IN TEMP		86.87	89.15
02:12:23	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:12:24	CONT	P723	RC LOOP 1 HLG PRESS			NORM
2:12:47	CONT	X957	TREND RECORDER OUT 08			
02:12:50	HIGH	T675	MSR 1 MOIS SEP DT OUT TEMP		302.24	300.00
02:12:50	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:12:51	CONT	Z969	SG 2 ATM STM VENT VLV			CLOS
02:13:01	CONT	P731	RC LOOP 2 HLG PRESS			HILO
2:13: 8	CONT	X955	TREND RECORDER OUT 06			
02:13:33	CONT	Q545	ICS SG 2 LO LVL LIMIT			OFF
02:14:24	CONT	Z969	SG 2 ATM STM VENT VLV			NC
02:14:34	NORM	T143	CLNG TWR BASIN TEMP		82.83	85.00
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02:14:40	HIGH	Z675	MN FW 1 SU CTRL VLV (% OPEN)		12.11	0.00

02:15:06	HIGH	T950	TURB BYPASS VLV 2-1 OUT TEMP	(J1)	251.56	250.00
2:15: 7	CONT	X955	TREND RECORDER OUT 06			
02:15:10	LOW	Z675	MN FW 1 SU CTRL VLV (% OPEN)		1.21	2.00
02:15:26	NORM	F714	RC HLG TOTAL FLOW (MPPH)		147.00	2793.37
02:15:36	BAD	E814	RPS CH 1 SR NI2 HV (VOLTS)		2131.02	300.00
02:15:41	FLAG	Q675	MN FW 1 SU CTRL VLV			NORM
2:15:52	CONT	X955	TREND RECORDER OUT 06			
02:16:00	NORM	E814	RPS CH 1 SR NI2 HV (VOLTS)		2131.02	9999.00
02:16:25	LOW	F712	RC LOOP 1 HLG FLOW (MPPH)		43.97	741.17
02:16:27	LOW	F714	RC HLG TOTAL FLOW (MPPH)		147.00	2657.08
02:16:36	CONT	P731	RC LOOP 2 HLG PRESS			NORM
2:16:38	CONT	X955	TREND RECORDER OUT 06			
02:16:43	CONT	Z468	HP FW HTR 2-5 HI LVL DRN VLV			NC
02:16:44	FLAG	Q469	HP FW HTR 2-5 HI LVL CONTROL			NTNM
02:16:58	LOW	F857	RC LOOP 1 HLG FLOW (MPPH)		74.69	741.17
02:17:01	CONT	P723	RC LOOP 1 HLG PRESS			NORM
2:17:38	CONT	X955	TREND RECORDER OUT 06			
02:17:44	CONT	P594	LPT EXH HOOD SPRAY			ON
02:17:46	CONT	P594	LPT EXH HOOD SPRAY			OFF
02:17:49	CONT	P594	LPT EXH HOOD SPRAY			ON
02:17:56	CONT	P594	LPT EXH HOOD SPRAY			OFF
02:17:59	CONT	P594	LPT EXH HOOD SPRAY			ON
02:18:09	FLAG	Q166	CNDS PMP RECIRC VLV			NC
02:18:25	CONT	P161	CNDS PMP DISCH HDR PRESS			NORM
2:18:38	CONT	X955	TREND RECORDER OUT 06			
02:18:46	CONT	Q545	ICS SG 2 LO LVL LIMIT			ON
02:18:58	BAD	V667	MFPT 2 MFP END BRG VIB (MILS)		-0.11	0.00
02:19:15	NORM	T662	MFPT 2 EXH TEMP		145.98	150.00
2:19:38	CONT	X955	TREND RECORDER OUT 06			
2:19:47	CONT	X957	TREND RECORDER OUT 08			
02:20:07	CONT	Z969	SG 2 ATM STM VENT VLV			CLOS
2:20: 7	CONT	X955	TREND RECORDER OUT 06			
02:20:17	BAD	R790	RPS AUCTIONEERED AVG PWR (%)		-0.08	0.00
02:20:25	NORM	V667	MFPT 2 MFP END BRG VIB (MILS)		-0.12	1.00
02:20:40	CONT	P723	RC LOOP 1 HLG PRESS			HILO
02:20:41	CONT	Q545	ICS SG 2 LO LVL LIMIT			OFF
02:20:47	LOW	R790	RPS AUCTIONEERED AVG PWR (%)		-0.08	0.00
02:21:02	CONT	P731	RC LOOP 2 HLG PRESS			HILO
02:21:03	CONT	Z969	SG 2 ATM STM VENT VLV			NC
2:21: 8	CONT	X955	TREND RECORDER OUT 06			
02:21:12	FLAG	Q675	MN FW 1 SU CTRL VLV			NC
02:21:32	CONT	A159	CNDS PMP OR FW HTR 2 OUT CONDUCT			HIGH
02:21:33	CONT	P161	CNDS PMP DISCH HDR PRESS			HILO
02:21:35	NORM	T571	LP COND CIRC WTR BOX 1 IN TEMP		84.48	86.58
02:21:40	HIGH	Z675	MN FW 1 SU CTRL VLV (% OPEN)		9.57	0.00
2:21:52	CONT	X955	TREND RECORDER OUT 06			
02:22:05	CONT	P731	RC LOOP 2 HLG PRESS			NORM
02:22:06	CONT	P731	RC LOOP 2 HLG PRESS			HILO
02:22:07	CONT	P731	RC LOOP 2 HLG PRESS			NORM
02:22:07	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD			NO
02:22:08	CONT	P731	RC LOOP 2 HLG PRESS			HILO
02:22:09	CONT	P731	RC LOOP 2 HLG PRESS			NORM
02:22:11	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD			YES
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02:22:13	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD			NO
02:22:14	FLAG	Q166	CNDS PMP RECIRC VLV			NORM
02:22:16	CONT	Z746	RC MU BATCH STOP VLV			NC
02:22:17	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD			TRBL
02:22:26	HIGH	F714	RC HLG TOTAL FLOW (MPPH)		147.00	-4123.67
02:22:27	CONT	Z747	RC MU BATCH STOP VLV			WO
02:22:35	NORM	T570	LP COND CIRC WTR BOX 2 IN TEMP		84.61	86.63
02:22:36	FLAG	Q166	CNDS PMP RECIRC VLV			NC
02:22:44	CONT	P731	RC LOOP 2 HLG PRESS			HILO
02:22:45	CONT	P731	RC LOOP 2 HLG PRESS			NORM
02:22:55	HIGH	F713	RC LOOP 2 HLG FLOW (MPPH)		177.14	-4935.47

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02:22:07 FLAG V166  CNDS PMP RECIRC VLV                                  NORM
02:23:27 BAD  T991  CTMT ELEV 714 FT AIR TEMP ,  87        -0.06            0.0
02:23:27 NORM T991  CTMT ELEV 714 FT AIR TEMP ,  87        -0.06            0.0
02:23:27 BAD  V667  MFPT 2 MFP END BRG VIB (MILS)          -0.10            0.0
02:24:03 CONT F723  RC LOOP 1 HLG PRESS                                  NORM
02:24:27 NORM V667  MFPT 2 MFP END BRG VIB (MILS)          -0.10            1.0
02:24:36 LOW  P024  AUX STM 235# HDR PRESS                 188.66         190.0
02:24:37 CONT X955  TREND RECORDER OUT 06
02:25:23 NORM P678  MN FW 2 CTRL VLV DP,PDT-3A1(PSI)       60.40            70.0
02:25:24 NORM P679  MN FW 2 CTRL VLV DP,PDT-3A2(PSI)       60.12            70.0
02:25:33 CONT P956  T-G LIFT PMP DISCH PRESS                             LOW
02:25:33 CONT S962  T-G ROTOR                                            STPD
02:25:36 CONT P966  T-G LIFT PMP 2 DISCH PRESS                           NORM
02:25:36 CONT X040  T-G TURN GEAR NOT ENGAGE/OPERABL                     TRBL
02:25:37 CONT P963  T-G LIFT PMP 1 DISCH PRESS                           NORM
02:25:03 HIGH P678  MN FW 2 CTRL VLV DP,PDT-3A1(PSI)       80.52            70.0
02:25:03 HIGH P679  MN FW 2 CTRL VLV DP,PDT-3A2(PSI)       80.29            70.0
02:25:04 BAD  V602  MFPT 1 MFP END BRG VIB (MILS)          -0.16            0.0
02:25:58 BAD  V667  MFPT 2 MFP END BRG VIB (MILS)          -0.09            0.0
02:26: 7 CONT X955  TREND RECORDER OUT 06
02:26:25 NORM V602  MFPT 1 MFP END BRG VIB (MILS)          -0.16            1.0
02:26:27 NORM V667  MFPT 2 MFP END BRG VIB (MILS)          -0.09            1.0
02:27:06 NORM P024  AUX STM 235# HDR PRESS                 203.49         200.0
02:27:06 NORM P724  RC LOOP 1 HLG WR PRESS,SFAS CH 1       2087.80        2255.0
02:27: 7 CONT X955  TREND RECORDER OUT 06
02:27:11 LOW  P459  HP FW HTR 2-6 SHELL PRESS              21.47            22.0
02:27:11 NORM P769  RC PRZR PRESS                          2090.80        2255.0
02:28: 7 CONT X955  TREND RECORDER OUT 06
02:28:27 CONT X955  TREND RECORDER OUT 06
02:28:40 NORM P732  RC LOOP 2 HLG WR PRESS,SFAS CH 2       2089.88        2255.0
02:29:02 NORM T027  AUX STM 235# HDR TEMP                  392.57         405.0
02:29:28 HIGH T609  LPT 1 G/E EXH HOOD TEMP                150.68         150.0
02:29:37 CONT X955  TREND RECORDER OUT 06
02:29:43 CONT C848  ICS SG 2 LO LVL LIMIT                                ON
02:29:43 CONT Z470  HP FW HTR 2-6 HI LVL DRN VLV                         CLOS
02:30:11 NORM P733  RC LOOP 2 HLG WR PRESS,SFAS CH 4       2087.09        2255.0
02:30:37 CONT X955  TREND RECORDER OUT 06
02:30:52 NORM P678  MN FW 2 CTRL VLV DP,PDT-3A1(PSI)       67.21            70.0
02:30:03 NORM P679  MN FW 2 CTRL VLV DP,PDT-3A2(PSI)       67.48            70.0
02:30:07 BAD  V667  MFPT 2 MFP END BRG VIB (MILS)          -0.10            0.0
02:31: 7 CONT X955  TREND RECORDER OUT 06
02:31:38 FLAG Z166  CNDS PMP RECIRC VLV                                  NO
02:31:[illegible] [illegible] T959  TURB BYPASS VLV 2-1 OUT TEMP          211.98         250.0
02:31:[illegible] [illegible] Z741  RC MU BATCH FLO CMPLTD OR TRMNTD                    YES
02:31:[illegible] [illegible] Z747  RC MU BATCH STOP VLV                              NO
02:31:37 FLAG Z741  RC MU BATCH FLO CMPLTD OR TRMNTD                     NOT
02:31:52 NORM V667  MFPT 2 MFP END BRG VIB (MILS)          -0.09            1.0
02:32:02 CONT Z746  RC MU BATCH STOP VLV                                 CLOS
02:32:[illegible] CONT G742  RC MU BATCH FLO CMPLTD OR TRMNTD                         NO
02:32:09 NORM P725  RC LOOP 1 HLG WR PRESS,SFAS CH 3       2087.29        2255.0
02:32:09 CONT Z746  RC MU BATCH STOP VLV                                 NO
02:32:12 FLAG Z166  CNDS PMP RECIRC VLV                                  NORM
02:32:12 FLAG Z741  RC MU BATCH FLO CMPLTD OR TRMNTD                     TRBL
02:32:20 CONT Z747  RC MU BATCH STOP VLV                                 NO
02:32:38 CONT X955  TREND RECORDER OUT 06
02:32:40 CONT C848  ICS SG 2 LO LVL LIMIT                                OFF
02:32:01 NORM P673  MN FW 1 CTRL VLV DP,PDT-3A1(PSI)       67.72            70.0
02:33:19 CONT Z166  CNDS STRG TK OUT VLV TO LP COND                      NO
02:33:27 NORM F714  RC HLG TOTAL FLOW (MPPH)               147.00         1025.0
02:33:[illegible] CONT Z103  DWST OUT VLV , DH7A                         NO
02:34:07 LOW  P024  AUX STM 235# HDR PRESS                 188.02         190.0
02:34:[illegible] HIGH T959  TURB BYPASS VLV 2-1 OUT TEMP  263.69         250.0
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02:34:54	HIGH	P679	MN FW 2 CTRL VLV DP,PDT-5A2(PSI)	70.17	(28)	70.00
02:35:09	FLAG	Q166	CNDS PMP RECIRC VLV			NC
02:35:11	CONT	Q009	AUX BLR SYS			TRBL
02:35:16	CONT	Q009	AUX BLR SYS			NORM
02:35:35	CONT	L908	T-G SPE DT LVL			NORM
2:35:38	CONT	X955	TREND RECORDER OUT 06			
2:36: 8	CONT	X953	TREND RECORDER OUT 06			
02:36:36	FLAG	Q166	CNDS PMP RECIRC VLV			NORM
02:36:38	NORM	T771	RC PRZR PRESS RLF OUT TMP,RC12-3	243.69		250.00
2:36:38	CONT	X955	TREND RECORDER OUT 06			
02:37:36	LOW	T571	LP COND CIRC WTR BOX 1 IN TEMP	82.59		82.79
2:37:38	CONT	X955	TREND RECORDER OUT 06			
2:37:48	CONT	X957	TREND RECORDER OUT 08			
02:38:03	LOW	T027	AUX STM 235# HDR TEMP	379.07		380.00
2:38: 8	CONT	X955	TREND RECORDER OUT 06			
02:38:21	LOW	T441	HP COND CIRC WTR BOX 1 IN TEMP	82.78		82.79
02:38:35	LOW	T570	LP COND CIRC WTR BOX 2 IN TEMP	82.70		82.79
02:38:36	FLAG	Q166	CNDS PMP RECIRC VLV			NC
2:38:38	CONT	X955	TREND RECORDER OUT 06			
02:38:44	CONT	Q626	MFPT 1 MN OIL PMP 1			OFF
02:38:58	BAD	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.10		0.00
2:39: 8	CONT	X955	TREND RECORDER OUT 06			
02:39:21	FLAG	Q166	CNDS PMP RECIRC VLV			NORM
02:39:57	NORM	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.09		1.00
02:40:00	CONT	Q009	AUX BLR SYS			TRBL
02:40:02	CONT	Q009	AUX BLR SYS			NORM
2:40: 8	CONT	X955	TREND RECORDER OUT 06			
2:40:38	CONT	X955	TREND RECORDER OUT 06			
02:40:57	CONT	Q975	UNIT INSTR AIR DRYERS			TRBL
02:40:58	CONT	Q975	UNIT INSTR AIR DRYERS			NORM
02:41:06	CONT	Z319	DEAR HTR 2 PEG STM HDR VLV			NC
02:41:07	NORM	P024	AUX STM 235# HDR PRESS	198.46		280.00
02:41:20	LOW	T440	HP COND CIRC WTR BOX 2 OUT TEMP	82.68		82.75
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2:41:38	CONT	X955	TREND RECORDER OUT 06			
02:42:04	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD			YES
02:42:05	CONT	Z747	RC MU BATCH STOP VLV			NO
02:42:06	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD			NORM
02:42:15	CONT	Z746	RC MU BATCH STOP VLV			CLOS
02:42:17	CONT	Z732	RC DIVERTING VLV OPEN TO MU TK			NO
02:42:18	CONT	Z020	BA PMP 2			OFF
02:42:22	CONT	Z969	SG 2 ATM STM VENT VLV			CLOS
02:42:27	CONT	Z733	RC DIVERTING VLV OPEN TO WD SYS			CLOS
2:42:38	CONT	X955	TREND RECORDER OUT 06			
2:43: 8	CONT	X955	TREND RECORDER OUT 06			
02:43:32	CONT	P718	RC LETDOWN PREFLT DP			HIGH
02:43:36	CONT	P718	RC LETDOWN PREFLT DP			NORM
02:43:37	LOW	P024	AUX STM 235# HDR PRESS	189.67		190.00
02:43:41	CONT	Z969	SG 2 ATM STM VENT VLV			NC
02:43:54	CONT	P718	RC LETDOWN PREFLT DP			HIGH
02:43:58	CONT	P718	RC LETDOWN PREFLT DP			NORM
02:43:58	CONT	P720	RC LETDOWN PRESS			HIGH
02:43:59	CONT	P720	RC LETDOWN PRESS			NORM
02:44:01	CONT	P161	CNDS PMP DISCH HDR PRESS			NORM
02:44:12	FLAG	Q166	CNDS PMP RECIRC VLV			NC
02:44:22	LOW	T442	HP COND CIRC WTR BOX 1 OUT TEMP	82.74		82.75
2:44:38	CONT	X955	TREND RECORDER OUT 06			
02:44:44	CONT	P718	RC LETDOWN PREFLT DP			HIGH
02:44:53	CONT	P718	RC LETDOWN PREFLT DP			NORM
2:45: 8	CONT	X955	TREND RECORDER OUT 06			
02:45:19	LOW	T439	HP COND CIRC WTR BOX.2 IN TEMP	82.61		82.71
02:45:22	CONT	P161	CNDS PMP DISCH HDR PRESS			HILO
02:45:43	CONT	P978	T-G LIFT PMP SUCT PRESS			LOW
02:45:44	FLAG	P979	T-G LIFT PMP SUCT PRESS			LOW
02:45:44	FLAG	Q166	CNDS PMP RECIRC VLV			NORM

02:45:55	NORM	T477	HPT SIDE 2 IN TEMP	526.43	540.00
2:46:38	CONT	X955	TREND RECORDER OUT 06		
02:46:47	CONT	Z733	RC DIVERTING VLV OPEN TO WD SYS		NC
02:46:54	CONT	Z020	BA PMP 2		ON
02:46:57	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD		NO
02:46:57	CONT	Z732	RC DIVERTING VLV OPEN TO MU TK		WO
02:46:58	BAD	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.10	0.00
02:46:59	CONT	Z746	RC MU BATCH STOP VLV		NC
02:47:00	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD		TRBL
2:47: 8	CONT	X955	TREND RECORDER OUT 06		
02:47:09	CONT	Z747	RC MU BATCH STOP VLV		WO
02:47:38	CONT	L163	CNDS STRG TK LVL		HILO
02:47:44	CONT	Q009	AUX BLR SYS		TRBL
02:47:48	CONT	Z168	CNDS STRG TK OUT VLV TO LP COND		CLOS
02:47:58	NORM	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.09	1.00
02:48:03	CONT	Q009	AUX BLR SYS		NORM
02:49:16	CONT	Q544	ICS SG 2 BTU LIMIT		OFF
2:49:38	CONT	X955	TREND RECORDER OUT 06		
2:50: 8	CONT	X955	TREND RECORDER OUT 06		
02:50:24	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD		YES
02:50:24	CONT	Z747	RC MU BATCH STOP VLV		NO
02:50:27	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD		NORM
02:50:35	CONT	Z746	RC MU BATCH STOP VLV		CLOS
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2:51: 8	CONT	X955	TREND RECORDER OUT 06		
02:51:12	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD		NO
02:51:16	CONT	Z746	RC MU BATCH STOP VLV		NC
02:51:18	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD		TRBL
02:51:23	CONT	Q009	AUX BLR SYS		TRBL
02:51:27	CONT	Z747	RC MU BATCH STOP VLV		WO
02:51:31	CONT	Z466	HP FW HTR 2-4 HI LVL DRN VLV		CLOS
02:51:32	FLAG	Q467	HP FW HTR 2-4 HI LVL CONTROL		NORM
02:51:44	CONT	Q009	AUX BLR SYS		NORM
2:51:47	CONT	X955	TREND RECORDER OUT 06		
02:52:05	CONT	Z969	SG 2 ATM STM VENT VLV		CLOS
02:52:07	NORM	P024	AUX STM 235# HDR PRESS	200.11	280.00
2:52: 8	CONT	X955	TREND RECORDER OUT 06		
02:52:27	CONT	T595	LPT EXH HOOD TEMP		HIGH
2:52:48	CONT	X957	TREND RECORDER OUT 08		
02:52:58	CONT	Z969	SG 2 ATM STM VENT VLV		NC
02:53:03	NORM	T027	AUX STM 235# HDR TEMP	390.55	405.00
02:53:06	CONT	Z969	SG 2 ATM STM VENT VLV		CLOS
2:53: 8	CONT	X955	TREND RECORDER OUT 06		
02:53:25	CONT	Z969	SG 2 ATM STM VENT VLV		NC
2:54: 8	CONT	X955	TREND RECORDER OUT 06		
2:54:38	CONT	X955	TREND RECORDER OUT 06		
02:54:58	BAD	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.10	0.00
02:55:26	CONT	Q544	ICS SG 2 BTU LIMIT		ON
02:55:28	NORM	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.10	1.00
02:55:37	LOW	P024	AUX STM 235# HDR PRESS	188.62	190.00
02:55:43	CONT	Z319	DEAR HTR 2 PEG STM HDR VLV		CLOS
02:55:44	NORM	T635	MFP 1 (LWR CASING-FW) TEMP DIFF	0.24	25.00
02:55:54	CONT	Z969	SG 2 ATM STM VENT VLV		CLOS
02:55:58	BAD	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.09	0.00
02:56:12	FLAG	Q166	CNDS PMP RECIRC VLV		NC
02:56:14	HIGH	L449	HP COND HOTWELL LVL (FT)	4.75	4.75
02:56:28	NORM	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.09	1.00
02:56:37	NORM	P024	AUX STM 235# HDR PRESS	199.37	280.00
02:57:01	CONT	Q009	AUX BLR SYS		TRBL
02:57:02	CONT	Q009	AUX BLR SYS		NORM
02:57:18	FLAG	Q166	CNDS PMP RECIRC VLV		NORM
2:57:47	CONT	X955	TREND RECORDER OUT 06		
2:58: 7	CONT	X955	TREND RECORDER OUT 06		
02:58:36	LOW	P024	AUX STM 235# HDR PRESS	185.32	190.00
2:58:37	CONT	X955	TREND RECORDER OUT 06		

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02:58:53 CONT Q009  AUX BLR SYS                                          NORM
02:58:58 BAD  V667  MFPT 2 MFP END BRG VIB (MILS)          -0.10            0.00
 2:59:48 CONT X957  TREND RECORDER OUT 08
02:59:58 NORM V667  MFPT 2 MFP END BRG VIB (MILS)          -0.09            1.00
03:00:16 CONT Q009  AUX BLR SYS                                          TRBL
03:00:57 CONT Q975  UNIT INSTR AIR DRYERS                                TRBL
03:00:58 CONT Q975  UNIT INSTR AIR DRYERS                                NORM
 3: 1: 8 CONT X955  TREND RECORDER OUT 06
03:01:25 BAD  V652  MFPT 1 BFP END BRG VIB (MILS)          -0.17            0.00
03:01:42 CONT Q545  ICS SG 2 LO LVL LIMIT                                ON
03:01:43 CONT L450  HF COND HOTWELL LVL                                  HIGH
03:02:25 NORM V652  MFPT 1 BFP END BRG VIB (MILS)          -0.16            1.00
 3: 2:38 CONT X955  TREND RECORDER OUT 06
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03:03:32 CONT L351  DEAR STRG TK 1 LVL                                   NORM
 3: 4:38 CONT X955  TREND RECORDER OUT 06
03:04:55 CONT Q545  ICS SG 2 LO LVL LIMIT                                OFF
03:05:02 CONT L357  DEAR STRG TK 2 LVL                                   NORM
03:05:03 LOW  T027  AUX STM 235# HDR TEMP                  379.29          380.00
03:05:25 BAD  V652  MFPT 1 BFP END BRG VIB (MILS)          -0.17            0.00
 3: 5:38 CONT X955  TREND RECORDER OUT 06
 3: 6: 8 CONT X955  TREND RECORDER OUT 06
03:06:25 NORM V652  MFPT 1 BFP END BRG VIB (MILS)          -0.16            1.00
03:06:30 CONT Z969  SG 2 ATM STM VENT VLV                                NC
03:07:27 CONT Z969  SG 2 ATM STM VENT VLV                                CLOS
 3: 7:48 CONT X957  TREND RECORDER OUT 08
03:07:54 CONT Z969  SG 2 ATM STM VENT VLV                                NC
03:08:00 CONT Z747  RC MU BATCH STOP VLV                                 NO
03:08:07 CONT Z020  BA PMP 2                                             OFF
03:08:10 CONT Z746  RC MU BATCH STOP VLV                                 CLOS
03:08:12 FLAG Q741  RC MU BATCH FLO CMPLTD OR TRMNTD                     NORM
03:08:15 CONT Q742  RC MU BATCH FLO CMPLTD OR TRMNTD                     YES
03:08:16 CONT Z732  RC DIVERTING VLV OPEN TO MU TK                       NO
03:08:25 CONT Z733  RC DIVERTING VLV OPEN TO WD SYS                      CLOS
 3: 8:38 CONT X955  TREND RECORDER OUT 06
 3: 9: 8 CONT X955  TREND RECORDER OUT 06
03:11:03 CONT Q545  ICS SG 2 LO LVL LIMIT                                ON
03:11:09 FLAG Q166  CNDS PMP RECIRC VLV                                  NC
03:11:12 CONT Q534  ICS FW LIMITED BY REACTOR PWR                        NORM
03:11:41 CONT Q541  ICS REACTOR PWR LIMITED BY FW                        ON
03:12:00 CONT Z733  RC DIVERTING VLV OPEN TO WD SYS                      NC
03:12:06 FLAG Q166  CNDS PMP RECIRC VLV                                  NORM
 3:12: 8 CONT X955  TREND RECORDER OUT 06
03:12:10 CONT Q742  RC MU BATCH FLO CMPLTD OR TRMNTD                     NO
03:12:10 CONT Z020  BA PMP 2                                             ON
03:12:10 CONT Z732  RC DIVERTING VLV OPEN TO MU TK                       WO
03:12:12 CONT Z746  RC MU BATCH STOP VLV                                 NC
03:12:15 FLAG Q741  RC MU BATCH FLO CMPLTD OR TRMNTD                     TRBL
03:12:16 CONT Z969  SG 2 ATM STM VENT VLV                                CLOS
03:12:22 CONT Z747  RC MU BATCH STOP VLV                                 WO
03:12:36 FLAG Q166  CNDS PMP RECIRC VLV                                  NC
03:12:42 NORM L352  DEAR STRG TK 1 LVL (FT)'               8.77             9.00
03:13:17 CONT P977  T-G MSP                                              OFF
03:13:29 CONT Q545  ICS SG 2 LO LVL LIMIT                                OFF
03:13:37 FLAG Q166  CNDS PMP RECIRC VLV                                  NORM
 3:13:44 CONT X955  TREND RECORDER OUT 06
03:14:10 FLAG Q166  CNDS PMP RECIRC VLV                                  NC
 3:14:14 CONT X955  TREND RECORDER OUT 06
 3:14:44 CONT X955  TREND RECORDER OUT 06
03:15:29 NORM L356  DEAR STRG TK 2 LVL (FT)                8.77             9.00
03:16:06 FLAG Q166  CNDS PMP RECIRC VLV                                  NORM
 3:16:44 CONT X955  TREND RECORDER OUT 08
 3:17:44 CONT X955  TREND RECORDER OUT 06
03:17:48 CONT Q545  ICS SG 2 LO LVL LIMIT                                ON
 3:18:14 CONT X955  TREND RECORDER OUT 06
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3:18:44	CONT	X955	TREND RECORDER OUT 06		
03:18:45	LOW	T635	MFP 1 (LWR CASING-FW) TEMP DIFF	-0.02	0.00
03:18:59	BAD	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.10	0.00
3:19:14	CONT	X955	TREND RECORDER OUT 06		
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3:19:49	CONT	X957	TREND RECORDER OUT 08		
03:19:59	NORM	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.09	1.00
3:20:14	CONT	X955	TREND RECORDER OUT 06		
3:20:44	CONT	X955	TREND RECORDER OUT 06		
3:21:14	CONT	X955	TREND RECORDER OUT 06		
03:22:26	HIGH	F712	RC LOOP 1 HLG FLOW (KPPH)	137.80	-12397.18
03:22:28	HIGH	F714	RC HLG TOTAL FLOW (MPPH)	147.00	-12921.72
03:22:37	FLAG	Q166	CNDS PMP RECIRC VLV		NC
3:22:44	CONT	X955	TREND RECORDER OUT 06		
03:22:45	NORM	T635	MFP 1 (LWR CASING-FW) TEMP DIFF	0.07	25.00
03:22:59	HIGH	F857	RC LOOP 1 HLG FLOW (MPPH)	74.95	-12397.85
03:22:59	BAD	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.10	0.00
3:23:44	CONT	X955	TREND RECORDER OUT 06		
03:23:45	LOW	T635	MFP 1 (LWR CASING-FW) TEMP DIFF	-0.56	0.00
03:23:45	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD		YES
03:23:46	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD		NORM
03:23:46	CONT	Z020	BA PMP 2		OFF
03:23:46	CONT	Z747	RC MU BATCH STOP VLV		NO
03:23:57	CONT	Z746	RC MU BATCH STOP VLV		CLOS
03:23:58	CONT	Z732	RC DIVERTING VLV OPEN TO MU TK		NO
03:23:59	NORM	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.09	1.00
03:24:08	CONT	Z733	RC DIVERTING VLV OPEN TO WD SYS		CLOS
3:24:14	CONT	X955	TREND RECORDER OUT 06		
03:24:31	NORM	T351	CRD VENT FAN IN TEMP ,9185E	106.72	160.00
03:24:45	NORM	T635	MFP 1 (LWR CASING-FW) TEMP DIFF	0.02	25.00
03:24:48	CONT	Z969	SG 2 ATM STM VENT VLV		NC
03:25:13	CONT	Z969	SG 2 ATM STM VENT VLV		CLOS
03:25:27	BAD	V652	MFPT 1 BFP END BRG VIB (MILS)	-0.17	0.00
03:25:39	CONT	Z969	SG 2 ATM STM VENT VLV		NC
03:25:41	HIGH	F696	MSR 2 1ST STG DT DRN FLOW (KPPH)	17.75	16.00
03:25:46	LOW	T635	MFP 1 (LWR CASING-FW) TEMP DIFF	-0.33	0.00
03:25:47	CONT	Z969	SG 2 ATM STM VENT VLV		CLOS
03:26:11	CONT	Z969	SG 2 ATM STM VENT VLV		NC
03:26:20	CONT	Z969	SG 2 ATM STM VENT VLV		CLOS
03:26:27	NORM	V652	MFPT 1 BFP END BRG VIB (MILS)	-0.16	1.00
03:26:32	LOW	T351	CRD VENT FAN IN TEMP ,9185E	50.10	60.00
03:26:38	LOW	P023	AUX STM 50# HDR PRESS	39.94	40.00
03:26:44	LOW	C417	MSR 2 2ND STG DTEMP/DTIME (DFPM)	-2.10	-2.08
03:26:46	NORM	T635	MFP 1 (LWR CASING-FW) TEMP DIFF	0.15	25.00
03:26:50	CONT	Z020	BA PMP 2		ON
03:27:01	BAD	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.10	0.00
03:27:10	CONT	Z733	RC DIVERTING VLV OPEN TO WD SYS		NC
03:27:20	CONT	Q742	RC MU BATCH FLO CMPLTD OR TRMNTD		NO
03:27:20	CONT	Z732	RC DIVERTING VLV OPEN TO MU TK		WO
03:27:22	CONT	Z746	RC MU BATCH STOP VLV		NC
03:27:24	FLAG	Q741	RC MU BATCH FLO CMPLTD OR TRMNTD		TRBL
03:27:32	CONT	Z747	RC MU BATCH STOP VLV		WO
03:27:33	NORM	T351	CRD VENT FAN IN TEMP ,9185E	108.82	160.00
03:27:44	NORM	C417	MSR 2 2ND STG DTEMP/DTIME (DFPM)	-0.28	2.08
03:27:46	LOW	T635	MFP 1 (LWR CASING-FW) TEMP DIFF	-0.11	0.00
3:27:55	CONT	X955	TREND RECORDER OUT 06		
03:28:01	NORM	V667	MFPT 2 MFP END BRG VIB (MILS)	-0.09	1.00
3:28:11	CONT	X955	TREND RECORDER OUT 06		
3:28:41	CONT	X955	TREND RECORDER OUT 06		
03:28:47	NORM	T635	MFP 1 (LWR CASING-FW) TEMP DIFF	0.23	25.00
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3:29:12	CONT	X955	TREND RECORDER OUT 06		
03:29:34	LOW	T351	CRD VENT FAN IN TEMP ,9185E	50.10	60.00
3:29:42	CONT	X955	TREND RECORDER OUT 06		
03:29:46	CONT	L035	BA ADD TK 2 LVL		HILO