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TRANSFER FOR DIRECT REPLY - DOE

CHRON

U.S. SPENT FUEL TEAM DAILY FAX

WEDNESDAY, JULY 31, 1996

TO: Cherie Fitzgerald, U.S. DOE 1 202-586-8525  
FROM: Sean Tyson, DOE Site Monitor 850 2 381 2473

7/31/96

RODS CANNED TODAY: 0  
RODS CANNED TO DATE: 2249 79  
CANS/RODS IN RACKS: 102/2182

Water clarity improved marginally today. The team put the lids on four canisters, which are all in overpack, have been conditioned, and are ready to be racked. O-28 is lidded, but the o-ring will probably have to be replaced by the next rotation. The final count (confirmed by the IAEA's numbers) shows 24 rods in the canister: one from basket 102, and 23 from basket 103.

Denis Reynolds and I will visit the site on Monday, and Wednesday next week (8/5 and 8/7), and will return for the duration of our stay on 8/10, Friday. The weather has been poor, however, and may impact the exact dates of our visits. We have been told that our itinerary has been approved. Of course, any or all of it is subject to our host's schedule. If trips are cancelled, we will return to the site as an alternative.

John Etlien, Denis Reynolds and I met with CE Li today to discuss a few remaining issues:

- \* The dates of our visits to the site are acceptable, at which time I will examine the water filtration room, the office, storage and lab, and possibly the boiler room.
- \* If baskets are cleaned on the 10th, the water filtration will be operated from the night of the 10th until the morning of the 12th, so that the pool will be as clear as possible for the next team.
- \* The iso container will be locked, but the storage room will be left open so DPRK personnel will have access to the electrical panel.
- \* The Dillon between workstations 3 & 4 has been damaged by a crane with a canister. John will take it back to the States for repair and leave an spare (unreliable).
- \* One of the personnel here partially discharged a fire extinguisher.
- \* The sea shipment will not be delivered to the site unless the next team is here to receive it. Weather may affect the delivery date.

All four jib cranes arrived, with associated equipment. John also gave a complete inventory to CE Li of our equipment. He and Rob have also left documentation for their replacements on activities conducted during this rotation. John has left a diskette for me with the rod log info, which I will pass on to Dawn and Ken.

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CHRON

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.S. SPENT FUEL TEAM DAILY FAX

MONDAY, AUGUST 5, 1996

O: Cherie Fitzgerald, U.S. DOE 1 202-586-8525

KOM: Sean Tyson, DOE Site Monitor 850 2 381 2477

M119

ODS CANNED TODAY: 0  
ODS CANNED TO DATE: 224579  
ANS/RODS IN RACKS: 102/2182

I will resend the fax from last Wednesday. I've copied the original printouts from the thermal copier, so maybe all pages will go through this time. By the way, I never received the fax that Dick sent to the Koryo hotel. If you want to try again, I'm in room# 2-17-23, and Denis is in 2-17-22. Denis and I spent Saturday visiting Mangyongdae, with excursions to the Pyongyang subway and bowling alley. Sunday we went to Kaesong and Panmunjom. I'll provide details later if you're interested. Wednesday morning is now free, so we will return to Nyongbyon to check the site. We should be in Pyongyang all day tomorrow, but will probably change the schedule slightly

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J.S. SPENT FUEL TEAM DAILY FAX

WEDNESDAY, AUGUST 7, 1996

TO: Cherie Fitzgerald, U.S. DOE 1 202-586-8525  
FROM: Sean Tyson, DOE Site Monitor 850 2 381 2473

RODS CANNED TODAY: 0  
RODS CANNED TO DATE: 2279  
BANS/RODS IN RACKS: 102/2181

Denis contacted German Mission--the Charge is on vacation. He spoke with a Korean employee; apparently there were no Germans in the office when he called. The Charge has been away since before Friday, 8/2. We will contact the Mission again to see when he will return. Denis and I are not clear on whether authority was transferred from the Swedish Embassy to the German Mission.

I checked the numbers again, and Dick was correct in his count of the number of rods canned to date: 2279, not 2248.

The filtration system is still in operation, with a flowrate of 45.6gpm. The readings on the four channels of the chillers are as follows:

- 1. 55.3
- 2. 49.4
- 3. 54.8
- 4. 50.4

I received the fax with my new flight schedule, and have confirmed my reservation with the Great Wall for the 13th. I will purchase the new return ticket then. The storage room is locked, so I did not check it. We did not see any IAEA inspectors at the site, but they may have been in the pool area.

Denis and I visited the War and History museums in Pyongyang yesterday. The History museum was quite interesting, as was the War museum. We should be visiting Taesong today, and Nampo tomorrow. I will inform you if our plans change.

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CONFIRMED TO BE UNCLASSIFIED

DATE 08-07-97 BY 97

D00013765

00/16/80 01.20 05-08-10 12:53 PYONGYANG-KOREA

850-2-3814423

T-422 P.02

M81

U.S. SPENT FUEL TEAM DAILY FAX

TO: Cherie Fitzgerald, U.S. DOE 1 202-586-852

FROM: Sean Tyson, DOE Site Monitor 850 2 381 5473

CHRON

FRIDAY, AUGUST 9, 1996

RODS CANNED TODAY:	0
RODS CANNED TO DATE:	2279
CANS/RODS IN RACKS:	102/2181

Denis and I returned to the guest house this morning, there didn't seem to be any reason to remain in Pyongyang. I spoke with Dawn in Beijing, she said the seven should arrive on time, that all of the visas had been picked up, and that everyone had a plane ticket.

U.S. SPENT FUEL TEAM DAILY FAX

TO: Cherie Fitzgerald, U.S. DOE 1 202-586-8525  
 FROM: Sean Tyson, DOE Site Monitor 850 2 381 2473

SATURDAY, AUGUST 10, 1996

CHRON

RODS CANNED TODAY: 0 TRANSFERRED TO OTHER AGENCY  
 RODS CANNED TO DATE: 2279  
 CANS/RODS IN RACKS: 102/2181 TRANSFER FOR DIRECT REPLY - DOE

Denis and I returned at the usual time to the site. The NAC generator was started about 8:30am. I checked the chillers and filtration system. The temperature for the chillers were:

1.	54.9
2.	48.6
3.	54.5
4.	49.7

The flowrate for the pump was 42.67gpm.

We met with CE Li shortly thereafter, where he told us what he hoped to accomplish today:

- \* Main filters would be restarted;
- \* Maintenance would be performed, the area cleaned, and his crew would make preparations for canning to begin Monday;
- \* Clean baskets;
- \* Remove sludge from area where baskets had been sitting;
- \* Take dosage readings in spent fuel area;
- \* Inspect baskets, move new canisters to workstations.

He also asked that the lab be opened for dosage sampling purposes. I agreed to do so, and also provided the key for the pool area tool box. I asked CE Li about the filtration system operation during the vacation, since Mr. Ho had led me to believe the filtration system had been in use during the vacation. CE Li explained that the filters had been bypassed during the break. He said the filters did not need to be changed, and seemed to consider the low flow rate normal. Bob Flournoy had told me that 55gpm was the average flow rate that was acceptable. I again requested that the outlet in our office be repaired so that the refrigerator could be reconnected to local power, or, that the NAC generator be operated until Monday. He said the NAC generator would be operated until Monday, that a connection to the local current was not required. I think Dawn and George will have to work something out when they arrive. CE Li said his crew would work until 8pm or so today, depending on progress made on his agenda. I asked about the filtration system, and he said it would restart on the normal schedule, i.e., it would operate continuously

[The page contains approximately 25 lines of text that have been completely obscured by heavy horizontal black redaction bars.]

**US Spent Fuel Team Daily Fax**

**Monday, August 12, 1996**

1184

TO: CHERIE FITZGERALD, US DOE NN-42 202-586-2323  
FROM: DAWN WECHSLER, DOE SITE MONITOR 850-2-381-2473

Rods cleaned today: 0 Total rods cleaned: 2279 Total cans/rods loaded into racks: 102/2185

CHRO

The entire team arrived to the site on Sunday without difficulty. Sean and Dennis gave George, Chris and myself a complete turnover begun at the big tree, and completed this morning at the site, prior to their departure.

There is now a policy requiring us to pay to RECEIVE FAXES at the guest house, charge is small. It is apparently a country-wide rule which began sometime at the end of July.

The DOE, DOS and NAC reps met with CE Li to introduce the new team members and plan the restart activities. Every one, US and DPRK, appeared to be cooperative and in good spirits after their vacations' from the site. We agreed to begin moving baskets and canisters as soon as contamination spread by the overnight rain was cleaned up, however, work couldn't actually begin until the electricity was restored. In the mean time NAC could do maint. and teach Mr. Thirtt how to operate the canning station. CE Li has not been able to determine if the sea shipment has arrived, we need a copy of the bill of lading to help track it down. Also, this Thursday is a Holiday, there will be no DPRK workers at the site.

Here's how my first day went:

Contamination was cleaned, the US and DPRK HP's did a survey and found more on the bridge crane, that area was also cleaned. US began testing work stations without rods. Everything was OK.

CenTec was given a bill for 2 weeks of oil, \$1,946; NAC was given a bill for \$494 for oil, both were paid.

During my familiarization tour, I noticed the flow rate for the CenTec system is down to 40.25 GPM, from the normal readout flowrate of 55 GPM. Chiller temps are normal, the pool water is clear.

Mr. Parker attempted to calibrate the load cell, for WS #3 &4, we will evaluate the results tomorrow with the IAEA.

The connection from the hot water supply to the overpack, under the platform at WS #1, came off, spraying hot water and steam. NO ONE WAS HURT. It turned out that the THREE heating elements AND THE AUXILIARY ELEMENT HAD BEEN TURNED ON by the DPRK, most likely on Saturday 8/10, the water temperature gauge was pegged at 240F. For some reason the relief valve failed to open. The heating elements were reset, the hose re-attached and the connections to all stations had hose clamps placed on them.

The electricity came back on about 4:00, it had been off since breakfast. The phones have been out as well. We were informed that there will be a power outage tomorrow from 9-6.

NAC continued unpacking crates, the new air compressor works, we have requested the forklift to move it outside.

The DPRK and US then moved baskets and canisters. Four completed canisters were moved from the workstations to the racks and the lid was removed from the can with the bad seal.

We should begin rod cleaning operations tomorrow morning.

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U.S. spent fuel team (DOD) weekly summaries 20080002437

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8/12/96  
Dawn Wechler

08/13/96 08:06 202 586 2323  
\*96-09-13 18:07 PYONGYANG-KOREA

DOE - NN-42  
850-2-3814423

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**US Spent Fuel Team Daily Fax**

**Tuesday, August 13 1996**

TO: CHERIE FITZGERALD, US DOE NN-42 202-586-2323  
FROM: DAWN WECHSLER, DOE SITE MONITOR 850-2-381-2473

Rods cleaned today: \* Total rods cleaned: 2279\* Total cans/rods loaded into racks: 102/2185\*

Today's fax is being sent early, and before the end of the workday in order to pass on critical information. Rod conditioning and painting is proceeding at all stations, I will detail today's stat's in tomorrow's fax.

CHRON

\*\*\*\*\*The site is very short on "booties" for contamination protection for the workers. We estimate that there are about 600 pairs left. CE Li reported that his HP has counted the daily usage rate at 90-100 pairs, everyone agreed that can be lowered to about 60-80 pairs per day, maybe less. There are 9 working days until Randy Thomas comes to the site. We are taking several measures to move up a few days. At any rate, it will be absolutely necessary for him to bring several hundred in with him, his DPRK visa must also be ready. Please contact John Ettien at NAC, and have him plan to ship 3-4 cases of booties to Randy. John Ettien will need to bring more when he comes in. We need to get enough to last until the next air shipment; is one planned soon?

Because of the "bootie shortage", Chris Miller and myself will enter the pool room only when absolutely necessary. George Jackson will also be in less frequently. The DPRK has severely cut back on the number of people they have in the area as well. Our HP will spend more time in the pool area to decrease the number of booties used (less trips in and out). This has the added benefit of decreasing response time when the workers need him. Everyone has been told to use only one pair of booties, some workers were using two to keep the overshoes from slipping off. We are looking for smaller overshoes and may use tape to keep the overshoes on. Any American entering in a lab coat will not use booties, but will wear overshoes and will stay away from wet areas.

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08/15/96 07:06 202 586 2323  
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**US Spent Fuel Team Daily Fax**

**Wednesday, August 14 1996**

TO: CHERIE FITZGERALD, US DCENN-2202, 86-2323

FROM: DAWN WECHSLER, DOE SITE MONITOR 832381-2473

Rods cleaned today: 26 Total rods cleaned: 2380 Total cans/rods loaded into racks: 102/2209  
106/2255

Rods cleaned 8/13: 75 Total rods cleaned: 2354 Total cans/rods loaded into racks: 102/2185  
106/2255

Tuesday ended without incident, however, the DPRK staff appear to have lost any enthusiasm they had gained over their vacations. Cooperation was strained. More could have been accomplished if everyone worked full time, also the bridge crane was not always available for the work stations. But, 79 rods conditioned and 4 cans placed into the rack.

Wednesday work continued at all workstations. It is about as hot as D.C., but slightly less humid. The electricity was off & on throughout the night, but has been on all day. The phone & fax lines are still going down frequently.

CE Li did not arrive until 2:00, thus postponing some of our planned activities and lowering the enthusiasm of the workers. We met after he arrived.

The air compressor was placed into position outside, the air line was connected and tested. CE Li promised we would have fresh diesel to run to the compressor on Monday. Since the tank will be cleaned Saturday afternoon.

Mr. Parker worked on the sludge vacuuming system.

I visited the boiler again, no connections to the outside have been made for fuel, electricity, supply water and heated water. Tanks for diesel and at least one support platform are outside. CE Li said he would provide us with a schedule after the rainy season, as workers have been diverted to repair flood damage. He stated his commitment to have the system running this fall.

The IAEA has volunteered to ask the person entering next Tuesday to bring 3 cases of booties. The DPRK will not accept help from the IAEA, but does not need to know where we obtained booties during the shortage. This would allow Mr. Thomas to enter on schedule. I got word thru NAC that he and Mr. Ethien will both bring booties and some equipment.

CE Li indicated that he will need a drawing of the cesium removal system cask that he'll have made, please see the daily for 7/9/96. NAC should provide a drawing as soon as a system has been selected.

NAC modified the hot water system so that the heating elements will shut off at 190 F. This was not sufficient for CE Li, he wants the system to not heat unless there's flow thru the pump. He says this is the standard configuration in the DPRK. Mr. Jackson said one would be ordered for the system.

CE Li was suprised to here the flow rate was so low on the water treatment system. He will have someone look at the system and make adjustments to change out the filters or something.

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