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US Spent Fuel Team

TO: CHERIE FITZGERALD DOE 202-586-2323 NUMBER OF PAGES: 1
FROM: US SPENT FUEL TEAM
DATE: 6// SEPTEMBER 1995 WE WERE UNABLE TO FAX ON 6/9/95

THE TEAM CONTINUES TO MAKE STEADY PROGRESS TOWARDS SETTING UP THE WATER TREATMENT SYSTEM. ALL MAJOR COMPONENTS IN THE SYSTEM HAVE BEEN CONNECTED BY HOSE AND THE MAIN HOSE INTO THE SPENT FUEL BUILDING HAS BEEN PLACED IN THE SPENT FUEL BUILDING. DAMAGED PORTIONS OF HOSE WERE CUT OUT AND RECONNECTED WITH EQUIPMENT BROUGHT BY CENTEC, BUT TWO MORE CONNECTORS ARE BEING FABRICATED BY DPRK TO MEND FINAL SECTION. THEY SHOULD BE COMPLETE IN THE MORNING. ELECTRICAL CABLE FOR CONNECTING THE SYSTEM TO THE GENERATORS WAS PUT IN PLACE AND THE EMERGENCY SHOWER HAS BEEN INSTALLED. THE ION EXCHANGER RESIN HAS BEEN LOADED. THE MOST TEDIOUS WORK LEFT TO BE DONE IS A COMPLETE TIGHTNESS CHECK OF THE ENTIRE SYSTEM TO AVOID ANY RADIOACTIVE SPILLS. WE ARE WORKING SOLID TEN HOUR DAYS TO KEEP ON SCHEDULE.

WE HAVE CONFIRMED TO THE DPRK THAT ANOTHER SHIPMENT WILL ARRIVE VIA THE IL-76 ON SATURDAY SEPTEMBER 16 AT PYONGYANG AIRPORT, NOT SUNDAY SEPTEMBER 17 AS APPARENTLY REPORTED TO NIKKO'S BEIJING OFFICE (SHIPMENT REFERENCE NUMBER 999-8712-9943). CENTEC WITH MINIMAL DOE INVOLVEMENT SHOULD COORDINATE THIS SHIPMENT DIRECTLY WITH NIKKO TO MINIMIZE CHANCES OF CONFUSION.

WE NEED CONFIRMATION BY FAX AS SOON AS POSSIBLE THAT THE STATE DEPARTMENT HAS PROVIDED THE DPRK MISSION IN NEW YORK THE NAMES, PASSPORT NUMBERS, ETC OF THE NEXT TEAM MEMBERS DUE TO ARRIVE IN THE DPRK DURING SEPTEMBER. WITHOUT THIS NOTIFICATION TEN WORKING DAYS PRIOR TO PLANNED ARRIVAL IN PYONGYANG, DPRK VISAS CANNOT BE ISSUED IN BEIJING. ALSO, INCOMING TEAM MEMBERS SHOULD SEND A FAX TO THE SHERATON GREAT WALL IN BEIJING (HERMAN SMIT 86-10-500-2504) TO RESERVE A ROOM AND A CAR IF THEY WANT TO BE PICKED UP AT THE AIRPORT. OTHERWISE THEY MAY HAVE TO WAIT FOR AN HOUR TO GET A TAXI CAB. NIKKO'S BEIJING OFFICE ALSO NEEDS TO BE INFORMED VIA FAX ABOUT THE TEAM MEMBERS DATE OF ARRIVAL AND HOTEL SO THAT NIKKO REPRESENTATIVES CAN PICK UP THE MEMBER'S VISA AND AIRLINE TICKET AND DELIVER THEM TO THE CORRECT HOTEL ON THE MORNING OF DEPARTURE FROM BEIJING TO PYONGYANG. DPRK ATOMIC ENERGY BUREAU PERSONNEL WILL GREET THE ARRIVING MEMBER (S) AND ESCORT THEM TO THE KORYO HOTEL AND THEN THE NEXT DAY TO NYONGBYON.

TRY THIS FAX NUMBER: 850-2-812-473

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T. Sieler DR DATE: 1/15/2009

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U.S. spent fuel team (DOE) weekly summaries

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US Spent Fuel Team

TO: CHERIE FITZGERALD DOE 202-586-2323 NUMBER OF PAGES: 1
FROM: US SPENT FUEL TEAM 850-2-812-473
DATE: 8 SEPTEMBER 1995

WE WILL NOT BE WORKING TOMORROW BECAUSE OF A DPRK HOLIDAY. WE HAVE RECEIVED NO FAXS FROM YOU. FAXS HAVE ARRIVED FROM CENTEC AND NIKKO. IAEA HAS NOT BEEN RECEIVING FAXS HERE EITHER. ALL CHILLER COMPONENTS ARE IN PLACE. WE HAVE STARTED TO FILL THE SYSTEM WITH CLEAN DEIONIZED WATER AND ARE PURGING AIR FROM THE SYSTEM. AFTER THIS A LEAK CHECK WILL BE COMPLETED BY PRESSURIZING WITH AIR. TODAY WE RECEIVED THE CONNECTORS FABRICATED BY THE DPRK TO MEND THE FINAL SECTIONS OF HOSE. IT WAS EXCELLENT WORK AND WE COULD NOT TELL THE DIFFERENCE BETWEEN THE NEW CONNECTORS AND ONES WE CENTEC HAD BROUGHT. TIGHTENING OF THE SYSTEM HAS STARTED. THE FILTERS WERE INSTALLED ALSO. WE HAD A VISIT FROM THE DIRECTOR OF THE RADIOCHEMICAL LABORATORY, NYONGBYON CENTER FOR ATOMIC ENERGY. HE WAS IMPRESSED BY THE WAY THE SFT AND DPRK TEAM WERE WORKING TOGETHER. WE SPENT TIME WITH HIM SHOWING HIM HOW THE SYSTEM WORKS AND COMMUNICATING OUR FUTURE PLANS.

IT IS MY UNDERSTANDING THAT CENTEC'S NEXT SHIPMENT WILL BE LEAVING CALIFORNIA ON 9/16/95 AND IS SCHEDULED TO ARRIVE IN PYONGYANG ON 9/19. WE, INCLUDING ROGER ASAY, DON'T KNOW WHY IT IS DELAYED. CENTEC HAS TAKEN MORE MEASUREMENTS AND WILL BE SENDING THEM BACK TO GORDON GALBRAITH AT CENTEC. DPRK HAS NOT YET RECEIVED FORMAL NOTIFICATION FROM STATE DEPARTMENT ABOUT CENTEC REP DEVANNEY'S INTENDED ARRIVAL IN PYONGYANG ON 9/19. QUINONES HAS ASKED CENTEC'S OFFICE TO FAX TO NYONGBYON DEVANNEY'S COMPLETED DPRK VISA APPLICATION SO QUINONES CAN TAKE TO DPRK FOREIGN MINISTRY MONDAY 9/11 TO ASK THEM TO EXPEDITE ISSUANCE OF VISA IN BEIJING ON 9/12. FAX WAS ALSO SENT TO NIKKO IN BEIJING, ASKING THEM TO ASSIST DEVANNEY WITH VISA AND AIR TICKET. DETAILS HAVE BEEN SENT TO CENTEC. ALSO ON 9/11 QUINONES WILL VISIT CHINESE EMBASSY IN PYONGYANG TO CONFIRM THAT CHINESE VISAS FOR ASAY, BLOC AND VON NIEDA WILL BE EXTENDED UPON THEIR PRESENTING THEIR PASSPORTS. CHINESE CONSUL GENERAL TOLD QUINONES TODAY VIA TELEPHONE EXTENSION OF CHINESE VISAS WOULD NOT BE A PROBLEM IF THE INDIVIDUAL APPLICANT PRESENTS THEIR PASSPORT IN PERSON. QUINONES WILL VISIT CHINESE EMBASSY MORNING OF 9/11 TO CONFIRM THIS ARRANGEMENT. CALL CENTEC AND HAVE DEVANNY BRING THE FOLLOWING: O-RINGS FOR CAM LOCKS (ALL SIZES), NO SMOKING SIGNS FOR THE WORK AREAS, DESK JET CARTRIDGE (HP 51633A, BLACK (6 EACH), COLOR (2 EACH)). SO FAR NOTHING HAS HAPPENED TO INCREASE THE COST OF THE PROJECT.

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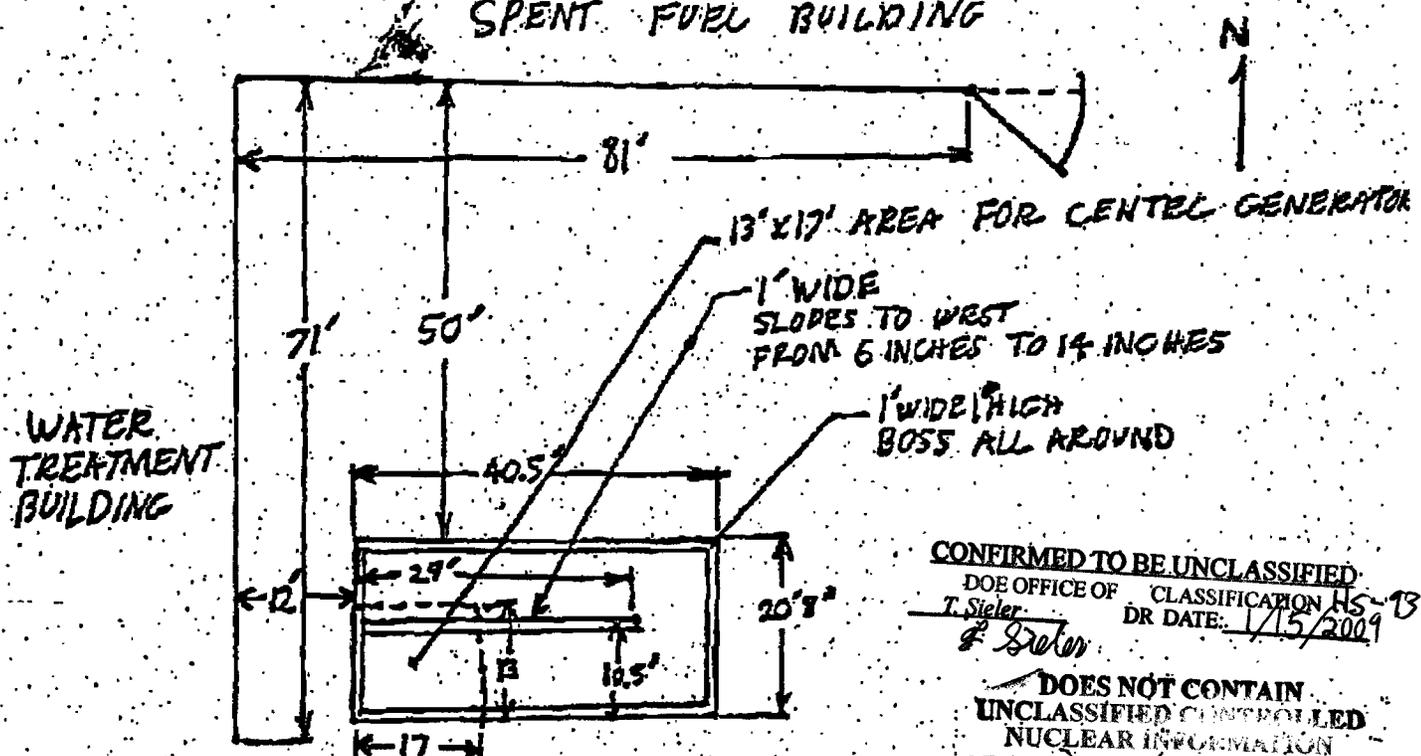
US Spent Fuel Team

M5

TO: **CHERIE FITZGERALD** DOE 202-586-2323 NUMBER OF PAGES: 1
FROM: **US SPENT FUEL TEAM** 011-850-2-381-2473
DATE: 12 SEPTEMBER

WE HAD OUR USUAL 0830-0900 MEETING WITH THE DPRK. WE INFORMED THEM THAT THE BOILER REQUEST WAS SENT TO QUINONES IN PYONGYANG. WE ASKED THAT VOLTAGE BE SUPPLIED AT 360 VOLTS AND DPRK AGREED TO MAKE THE ADJUSTMENT. WE FOUND OUT LATER IN THE DAY THAT DPRK VOLTAGE FLUCTUATES DAILY. WE WILL MONITOR AND SEE WHAT THE FLUCTUATION IS AND HOW IT EFFECTS EQUIPMENT. THE DPRK ASKED THAT WE START TRAINING THEIR TECHNICIANS IN THE OPERATION OF THE EQUIPMENT. WE SAID THAT PROCEDURES WOULD BE WRITTEN FOR THEM TO READ. WE AGREED TO START TRAINING THROUGH DEMONSTRATIONS AND VERBAL TRANSLATION. TRAINING WILL ONLY BE GIVEN ON OPERATIONS AS THEY ARE REQUIRED TO BE DONE. TRAINING TAKES TIME BUT OPERATORS NEED TO KNOW THE INS AND OUTS OF THE EQUIPMENT TO PREVENT DAMAGE. TODAY WE HAD A VERY SUCCESSFUL TEST OF THE SYSTEM PUMPING CLEAN WATER. WE HAD NO LEAKS. THE DPRK REQUESTED THAT A PANEL BE REMOUNTED TO BE EASIER TO READ FOR OPERATORS. IT IS IN A BAD POSITION BECAUSE OF PREVIOUS ON THE SPOT CHANGES. IN THE LONG TERM IT IS A GOOD IDEA, BUT SINCE IT INVOLVES A FLUID SYSTEM WILL SLOW US DOWN. THE DAILY WORK SCHEDULE WILL NEED AMENDING IF NAC WANTS 12 HOUR SHIFTS. HERE IS A SKETCH SHOWING THE GENERATOR PAD DIMENSIONS AND LOCATION, AND SHOWS WHAT AREA CENTEC IS USING. PLEASE FORWARD THIS TO NAC. I PROMISED THESE EARIER, SORRY.

SPENT FUEL BUILDING



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US Spent Fuel Team

9/16

TO: CHERIE FITZGERALD DOE 202-586-2323 NUMBER OF PAGES: 1

FROM: US SPENT FUEL TEAM 850-2-812-473

DATE: 13 SEPTEMBER, 1995

TODAY I RECEIVED YOUR FAX OF 9/8/95 FROM ROSEANNE AT CENTEC. IT WAS GREAT TO GET SOME INFORMATION FROM HOME!

AT THE MORNING MEETING WE ASKED THE DPRK IF WE COULD START THE SYSTEM TODAY. THE DPRK ASKED THAT THE SYSTEM BE TURNED ON IN THE MORNING OF 9/14/95 SO THAT OTHERS COULD BE INVITED TO THE INITIATION OF FLOW. WE AGREED. WE ALSO ASKED FOR ASSISTANCE CONCERNING JOHN DEVANNEY'S VISA TO THE DPRK BECAUSE HE IS STRANDED IN BEIJING. THEY CALLED THE FOREIGN OFFICE IN PYONGYANG AND WE HOPE FOR A STATUS REPORT IN THE MORNING. THE DPRK ALSO REQUESTED AN 1100 MEETING ON OTHER PROBLEMS CONCERNING OUR SYSTEM. AT THIS MEETING WE WERE ASKED VERY DETAILED QUESTIONS ABOUT HOW THE ION EXCHANGERS WORKED AND ABOUT HOW RADIOACTIVE MATERIAL WOULD BE FILTERED. SOME OF THE QUESTIONS REQUIRED ROUGH MATHEMATICAL CALCULATIONS TO BE DONE BY CENTEC ON THE SPOT. ALL QUESTIONS WERE ANSWERED. THEY WERE GOOD QUESTIONS AND WERE A GREAT BENEFIT TO THE PROGRAM. IT IS IMPORTANT THAT EVERYONE KNOWS WHAT TO EXPECT FROM THE SYSTEM. WE WERE ALSO ASKED IF WE HAD RECEIVED APPROVAL FOR THE BOILER SYSTEM WHICH THE DPRK REQUESTED. WE COMMUNICATED THAT WE HAD SENT THE SPECIFICATIONS AND WOULD ASK FOR AN ANSWER. THE DPRK SAID THAT TIME WAS CRITICAL. THEY WANT TO KNOW THE SPECIFICATIONS (SIZE AND SHAPE) OF THE SYSTEM SO THEY CAN BUILD A BUILDING TO HOUSE THE SYSTEM. THEY WANT TO BUILD SUCH A BUILDING BEFORE WINTER SETS IN. AT THE END OF THE DAY WE WERE ASKED IF WE WOULD BE READY TO TURN ON THE SYSTEM THE NEXT MORNING. AFTER A POSITIVE ANSWER WE WERE ABLE TO RUN THE SYSTEM SUCCESSFULLY FOR ABOUT HALF AN HOUR.

BECAUSE OF THE BANKING HOURS AND DIFFICULTY IN GETTING TO PYONGYANG WE DO NOT KNOW IF THE MONEY TRANSFER WORKED. I DON'T KNOW WHEN WE WILL CHECK, BUT NOT THIS WEEK FOR SURE.

KEN QUINONES IS BRINGING MORE INFORMATION ON THE BOILER REQUEST. THE SYSTEM WILL BE A CLOSED LOOP SYSTEM AND USE DPRK TAP WATER FOR MAKE-UP WATER. THE DPRK HAS ASKED TO SOFTEN WATER BY USING STEAM. WE HAVE TOLD THEM THAT ION EXCHANGE IS AN ALTERNATIVE AND WIDELY USED IN THE UNITED STATES. THE SYSTEM WILL USE SOME EXISTING DPRK EQUIPMENT, HOWEVER THEY WANT US TO HELP THEM WITH ANY ITEMS THEY DO NOT HAVE.

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US Spent Fuel Team

TO: CHERIE FITZGERALD DOE 202-586-2323 NUMBER OF PAGES: 7

FROM: US SPENT FUEL TEAM 850-2-812-473

DATE: 14 SEPTEMBER, 1995

TODAY THE WATER TREATMENT SYSTEM WAS STARTED AT THE NYONGBYON CENTER FOR ATOMIC ENERGY RESEARCH. THE START UP WAS ATTENDED BY THE SPENT FUEL TEAM AND FOUR DPRK REPRESENTATIVES. WHITE LAB COATS AND SAFETY GLASSES WERE PROVIDED BY CENTEC TO ALL PRESENT. OFFICIAL STARTUP WAS AT 11:10 AM. THE START UP WAS ANTI CLIMATIC WITH NO LEAKS OR OTHER PROBLEMS ENCOUNTERED. A COMPLETE DESCRIPTION OF THE SYSTEM WAS GIVEN AND ALL QUESTIONS ANSWERED. THE HEAD DPRK REPRESENTATIVE WAS VERY PLEASED. PICTURES OF THE SYSTEM AND PARTICIPANTS WERE TAKEN. AFTERWARDS BEER AND CRACKERS WERE SERVED COMPLIMENTS OF THE DPRK. AT THIS RECEPTION WE WERE ASKED ABOUT THE STATUS OF THE BOILER REQUEST. WE AGAIN ACKNOWLEDGED THE REQUEST AND REITERATED THAT APPROVAL WAS STILL NEEDED FROM THE UNITED STATES. WE WERE REMINDED THAT WINTER WILL COME SOON.

THE REMAINDER OF THE DAY WAS SPENT TRAINING TECHNICIANS ABOUT BASIC SYSTEM OPERATION. LOG SHEETS FOR ENTERING DATA WERE ALSO DEVELOPED. THE SYSTEM WILL RUN CONTINUOUSLY. THE DPRK HAS PROVIDED TECHNICIANS TO MONITOR THE SYSTEM AND TAKE DATA AT NIGHT.

I AM SENDING THE DPRK BOILER REQUEST AGAIN TO ENSURE THAT IT IS RECEIVED.

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