Table 1: Fuel Research Building Plutonium Exposure Accident Timeline

		Ilding Plutonium Exposure Accident Timeline
Date	Time	Accident Situation
6 June	11:15	During work to inspect a storage canister containing nuclear fuel materials in laboratory fume hood H-1 in a analytical lab (Room 108) in the Nuclear Fuel Research Building, plastic bags inside the canister burs contaminating the five task personnel. The five persons were wearing half-face masks and three layers of gloves
	11:20	The task personnel in Room 108 instructed the personnel in Room 101 (adjustment room) to suspend operation of the molten salt electrolytic furnace.
	11:23	Task personnel member A communicated the contamination incident to the facility management supervisor, hea of the Fuel Materials Experiment Division, Mr. Fukushima.
	11:25	Two men from Radiation Control Department No.2 arrived at the Fuel Research Building. The two men checke that the plutonium dust monitor No.2 (Room 108) was indicating a normal reading.
	11:37	The five task personnel inspected themselves with an α radiation surface contamination detector, confirming th they had all been contaminated.
	11:54	The facility management supervisor instructed that a greenhouse be set up in the corridor at Room 108. At 12:0 the Oarai Local Countermeasures Headquarters was established.
	13:15	Five greenhouse installation personnel (2 from the Fuel Experiment Department, 3 from other facilities) ent controlled area and begin to set up the greenhouse at the entrance to Room 108.
	14:29	Completion of greenhouse at entrance to Room 108.
	14:30	Task personnel begin retreat from Room 108 (carrying out a body contamination test).
	14:44~	Task personnel member A contamination test conducted: Max 0.33 Bq/cm ² (α radiation, special work hat). Aft removal of protective clothing, no body contamination. Nasal smear contamination test result: No abnormality.
		Task personnel member B contamination test conducted: Max 9.7 Bq/cm ² (a radiation, special work clothing
	14:59~	Result of contamination test after removal of protective clothing: body contamination present; ear 1.7 Bq/cm ² radiation). Nasal smear contamination test result: No abnormality. Shower taken.
	15:25~	Task personnel member C contamination test conducted: Max 3.3 Bq/cm ² (α radiation, special work hat). Nas smear contamination test result: 13 Bq (α radiation). Shower taken.
	16:00~	Task personnel member D contamination test conducted: Max 5.8 Bq/cm ² (α radiation, special work clothing Nasal smear contamination test result: 3 Bq (α radiation). Shower taken.
	16:07~	Task personnel member E contamination test conducted: Max 322 Bq/cm ² or more (α radiation, special wo clothing). Nasal smear contamination test result: 24 Bq (α radiation). Shower taken.
	18:52	Completion of decontamination for all five task personnel. 18:55: All five task personnel complete retreat fro controlled area.
	19:05	All five task personnel depart for Nuclear Fuel Cycle Engineering Labs in Tokai Village. Measurement by lumonitor begun on arrival.
	22:05	Administration of chelating agent to task personnel to encourage plutonium elimination.
	23:33	Max 22,000 Bq of Pu-239 and 220 Bq Am-241 confirmed as detected by lung monitor measurement of all fi task personnel (as of June 6).
	1:05	Chelating agent administration ended for all five task personnel.
	1:42	All five task personnel return to Oarai Research and Development Center.
7 June	10:00	All five task personnel depart Oarai Research and Development Center for hospital of the National Institute Radiological Sciences (NIRS).
	11:55	All five task personnel arrive at NIRS. After body contamination test and decontamination, measurement by lumonitor begins.
	13:27	Report that it had been judged necessary to make a legal report to the Nuclear Regulation Authority (NRA (Time of judgment: 13:00)
	16:41	Two personnel enter controlled area to take contamination test (smear samples) in Room 108.
	18:55	Completion of smear sample measurements. Room 108 contamination test results confirm max 55 Bq/cm ² radiation). 3.1 Bq/cm ² (β . γ radiation).
13 June	11:51	All five task personnel discharged from NIRS and depart for Oarai Research and Development Center. Arrival 13:52. After arrival, all five task personnel are interviewed.
	14:58	Optically stimulated luminescence (OSL) dosimeters recovered.
14 June	14:37	Digital camera SD card removed from controlled area.
16 June		Blood samples taken from all five task personnel at NIRS. Recommended that all five be rehospitalized due detection of plutonium in urine of all five
18 June		All five task personnel rehospitalized at NIRS by June 18.