

Water leakage in Fukushima Daiichi NPS (found on Jan 29)

< Reference >
January 31, 2012
Tokyo Electric Power Company

No	Time of the occurrence (time of leakage stop, leakage separation)	Leaking place/spot	Leaked amount	water shield	radioactivity concentration (Bq/cm ³)	Flow into the ocean	Impact to the system	Airborne Radiation (mSv/h)
	January 29, 2012 9:35 (separation completed 10:15)	Secondary Cooling Unit of SFP in Unit 4 (cooling coil)	40L (4m × 10m × 1mm)	No	filtered water	No	9:35 circulation cooling by secondary system was suspended. 11:14 Cooling restored by reactivating the pump of secondary system	-
	January 29, 2012 9:50 (leakage stopped 9:55)	Emergency reactor injection pump on the hill 3C flow indicator (Flange part)	600L	No	RO water Cs-134: 4.3E-02 Cs-137: 5.4E-02 I-131: ND (1/28 analysis result of water at the RO exit)	No (estimated)	No	same radiation level as surrounding environment
	January 29, 2012 10:05 (leakage stopped 10:05)	Water desalination (RO type) waste water supply pump A system minimum flow line flange (Flange part)	10L (1m × 10m × 1mm)	Yes	Cs-134: 8.7E00 Cs-137: 1.2E01 I-131: ND	No	-	:0.6 :35 (airborne) :0.11 (airborne) :2
	January 29, 2012 10:05 (leakage stopped 10:37)	Water desalination (evaporative concentration apparatus) Boiler B system (around feed water tank)	25L (5m × 5m × 1mm)	No	filtered water	No	-	-
	January 29, 2012 10:05 (leakage stopped 10:37)	Water desalination (evaporative concentration apparatus) Boiler C system (around feed water tank)		No	filtered water	No	-	-
	January 29, 2012 10:02 (leakage stopped 10:03)	Flow indicator of reactor injection pump injecting water from Unit 3 condensate storage tank to Unit 2	4L (2m × 2m × 1mm)	No	RO water Cs-134: 4.3E-02 Cs-137: 5.4E-02 I-131: ND (1/28 analysis result of water at the RO exit)	No	No	same radiation level as surrounding environment
	January 29, 2012 10:09 (leakage stopped 10:11)	Flow indicator of reactor injection pump injecting water from Unit 3 condensate storage tank to Unit 3	4L (2m × 2m × 1mm)	No	RO water Cs-134: 4.3E-02 Cs-137: 5.4E-02 I-131: ND (1/28 analysis result of water at the RO exit)	No	No	same radiation level as surrounding environment
	January 29, 2012 11:07 (leakage stopped 11:24)	Header of make up water line of filtered water to the SFP (cooling coil)	9L (3m × 3m × 1mm)	No	filtered water	No	-	-

No	Time of the occurrence (time of leakage stop, leakage separation)	Leaking place/spot	Leaked amount	water shield	radioactivity concentration (Bq/cm ³)	Flow into the ocean	Impact to the system	Airborne Radiation (mSv/h)
	January 29, 2012 11:06 (being received as a temporary measure)	Water desalination (evaporative concentration apparatus) demineralizer resin transfer line flange (Flange part)	0.5L (1m × 0.5m × 1mm)	Yes	treated water Cs-134:ND Cs-137:4.9E-02 I-131:ND	No	-	same radiation level as surrounding environment
	January 29, 2012 approx. 12:00 (leakage stopped at the time of being found)	Flow indicator of filtered water backwashing line of evaporative concentration apparatus boiler feed water	18L (6m × 3m × 1mm)	Yes	filtered water	No	-	-
	January 29, 2012 approx 13:00 (leakage stopped)	Flow indicator of filtered water line of purification instrument	1L	No	filtered water	No	-	-
	January 29, 2012 approx 10:50 (repair completed 16:00)	Coolant water line flange of Unit 6 circulating water pump (Flange part)	7000L	No	Pure water	No	Seawater pump was temporarily suspended for the repair of leaking spot (already reactivated)	-
	January 29, 2012 approx 15:00 (leakage stopped)	Flow indicator of waste water line of purification instrument	9L (9m × 3m × 1mm)	Yes	Pure water	No	-	-
	January 29, 2012 approx 15:10 (leakage stopped)	make up water valve of filtered water of Unit 3 SFP cooling system (make up water header (valve box))	50L (5m × 10m × 1mm)	No	filtered water	No	-	-