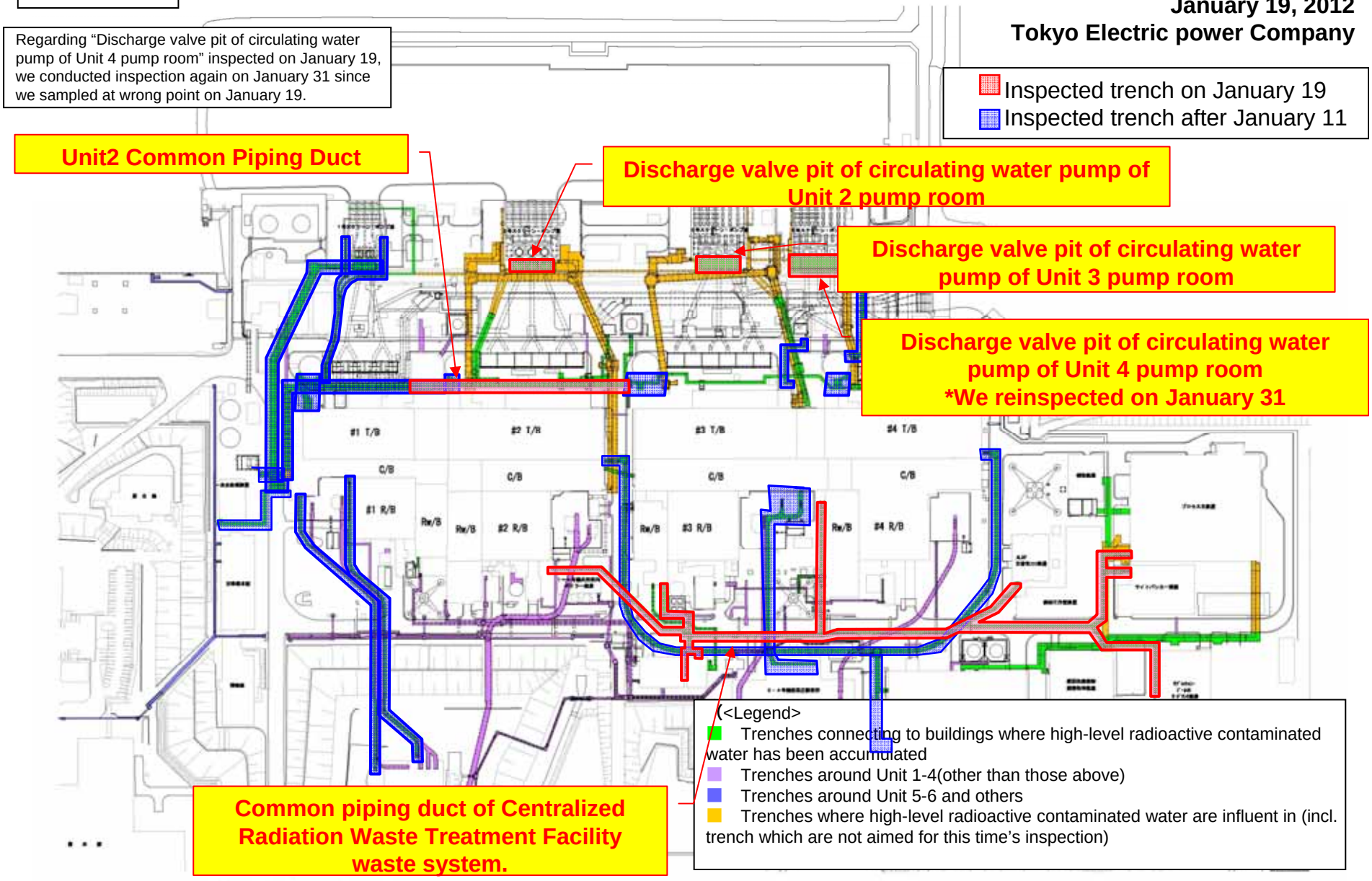
Inspection Status of Trench, etc. at Fukushima Daiichi Nuclear Power Station (Preliminary Result, January 19, 2012)

Revised

January 19, 2012
Tokyo Electric power Company

Regarding “Discharge valve pit of circulating water pump of Unit 4 pump room” inspected on January 19, we conducted inspection again on January 31 since we sampled at wrong point on January 19.

Inspected trench on January 19
Inspected trench after January 11



Inspection Status of Trench, etc. at Fukushima Daiichi Nuclear Power Station (Preliminary Result of the Unit 2 Common Piping Duct)

January 19, 2012
Tokyo Electric Power Company

【 Result 】

We found no puddle in today's inspection.

【 Date 】

Around 9:20 am, on January 19, 2012

【 Place 】

The Unit 2 Common Piping Duct

Inspection Status of Trench, etc. at Fukushima Daiichi Nuclear Power Station (Preliminary Result of the Discharge valve pit of circulating water pump of Unit 2 pump room)

January 19, 2012
Tokyo Electric Power Company

【Result】
We found a puddle in today's inspection.

【 Date 】
Around 10:50 am, on January 19, 2012

【 Place 】
Discharge valve pit of circulating water pump of Unit 2 pump room

【 Amount of the puddle 】
Approx 500m^3

【 Surface dose rate of the container of the collected water 】
Approx 0.045mSv/h （Approx 45μSv/h）

【 Preliminary nuclide analysis results 】
The nuclide analysis results of the collected water are as follows.

Nuclide	Radioactivity Concentration (Bq/cm3)	Measurable Limits (Bq/cm3)	Half-life
I-131	ND	3.8 X 10^1	Around 8 days
Cs-134	7.1 X 10^3	3.6 X 10^1	Around 2 years
Cs-137	9.1 X 10^3	3.2 X 10^1	Around 30 years

Inspection Status of Trench, etc. at Fukushima Daiichi Nuclear Power Station (Preliminary Result of the Discharge valve pit of circulating water pump of Unit 3 pump room)

January 19, 2012
Tokyo Electric Power Company

【Result】
We found a puddle in today's inspection.

【 Date 】
Around 10:40 am, on January 19, 2012

【 Place 】
Discharge valve pit of circulating water pump of Unit 3 pump room

【 Amount of the puddle 】
Approx 600m^3

【 Surface dose rate of the container of the collected water 】
Approx 0.021mSv/h （Approx 21μSv/h）

【 Preliminary nuclide analysis results 】
The nuclide analysis results of the collected water are as follows.

Nuclide	Radioactivity Concentration (Bq/cm3)	Measurable Limits (Bq/cm3)	Half-life
I-131	ND	1.7X 10^0	Around 8 days
Cs-134	3.8 X 10^2	1.7 X 10^0	Around 2 years
Cs-137	4.8 X 10^2	1.5 X 10^0	Around 30 years

Inspection Status of Trench, etc. at Fukushima Daiichi Nuclear Power Station (Preliminary Result of the Discharge valve pit of circulating water pump of Unit 4 pump room)

Revised

January 31, 2012
Tokyo Electric Power Company

【Result】
We found a puddle in today's inspection.

Regarding inspection on January 19, we conducted inspection again on January 31 since we sampled at wrong point.

【 Date 】
Around 9:50 am, on January 31, 2012

【 Place 】
Discharge valve pit of circulating water pump of Unit 4 pump room

【 Amount of the puddle 】
Under evaluation

【 Surface dose rate of the container of the collected water 】
Approx 0.0013mSv/h （Approx 1.3μSv/h）

【 Preliminary nuclide analysis results 】
The nuclide analysis results of the collected water are as follows.

Nuclide	Radioactivity Concentration (Bq/cm3)	Measurable Limits (Bq/cm3)	Half-life
I-131	ND	7.2×10^{-2}	Around 8 days
Cs-134	4.5×10^{0}	8.3×10^{-2}	Around 2 years
Cs-137	6.3×10^{0}	8.7×10^{-2}	Around 30 years

Inspection Status of Trench, etc. at Fukushima Daiichi Nuclear Power Station (Preliminary Result of the Common piping duct of Centralized Radiation Waste Treatment Facility waste system)

January 19, 2012
Tokyo Electric Power Company

【Result】
We found a puddle in today's inspection.

【 Date 】
Around 10:20 am, on January 19, 2012

【 Place 】
Common piping duct of Centralized Radiation Waste Treatment Facility waste system

【 Amount of the puddle 】
Under evaluation

【 Surface dose rate of the container of the collected water 】
Approx 0.005mSv/h （Approx 5μSv/h）

【 Preliminary nuclide analysis results 】
The nuclide analysis results of the collected water are as follows.

Nuclide	Radioactivity Concentration (Bq/cm3)	Measurable Limits (Bq/cm3)	Half-life
I-131	ND	3.4×10^{-2}	Around 8 days
Cs-134	7.3×10^{-1}	6.1×10^{-2}	Around 2 years
Cs-137	9.4×10^{-1}	7.2×10^{-2}	Around 30 years

Inspection Status View of Trench, etc. at Fukushima Daiichi Nuclear Power Station (Preliminary Result)

January 19, 2012
Tokyo Electric Power Company

【 Inspection area 】

Fukushima Daiichi Nuclear Power Station Unit 1-4, trenches etc. connected to the centralized radiation waste treatment facility building

Date of Inspection	Place	Puddle	Surface dose rate	Result of nuclide analysis（Bq/cm^3）		
				I-131	Cs-134	Cs-137
Jan. 11	DG connecting duct of Unit 2-4	Discovered	9.0μSv/h	ND	1.9×10^{0}	2.6×10^{0}
	Connecting duct between water treatment building – Unit 1 T/B	Discovered	1.5μSv/h	ND	8.8×10^{-1}	1.3×10^{0}
Jan. 12	Unit 1 chemical tank connecting duct	Discovered	1.2μSv/h	ND	2.4×10^{0}	3.5×10^{0}
	Unit 3 cable duct for start-up transformer	Discovered	1.6μSv/h	ND	4.9×10^{1}	6.9×10^{1}
	Unit 3 Radioactive Fluid Piping Duct	Not discovered	—	—	—	—
Jan. 13	Unit 1 Radioactive Fluid Piping Duct	Discovered	9.0μSv/h	ND	1.4×10^{0}	1.9×10^{0}
	Unit 4 Radioactive Fluid Piping Duct	Discovered	2.5μSv/h	ND	2.2×10^{1}	2.8×10^{1}
Jan. 16	Unit 1 Water Intake Power Cable Duct	Discovered	5.5μSv/h	ND	2.3×10^{0}	3.2×10^{0}
Jan. 17	Unit 1 Standby Power Cable Duct	Discovered	10 μSv/h	ND	5.4×10^{-1}	8.0×10^{-1}
	Unit 2 Radioactive Fluid Piping Duct	Not discovered	—	—	—	—
	Unit 3 Chemical Tank Connection Duct	Not discovered	—	—	—	—
	Unit 4 Chemical Tank Connecting Duct	Discovered	3.0 μ3Sv/h	ND	1.3×10^{0}	1.7×10^{0}
Jan. 18	Unit 1 Seawater Piping Tunnel	Discovered	1.3 μ Sv/h	ND	2.9×10^{-1}	4.4×10^{-1}
	Unit 1 Common Piping Duct	Discovered	1.0 μ Sv/h	ND	1.0×10^{1}	1.5×10^{1}
	Unit 1 Control Cable Duct	Discovered	4.5 μ Sv/h	ND	4.8×10^{-1}	7.1×10^{-1}
	Unit 4 Seawater Piping Duct	Not discovered	—	—	—	—