Influence evaluation on the radiation after operating local exhausters in the Reactor Building of Unit 2 at Fukushima Daiichi Nuclear Power Station

We have been improving the work environment in order to make it possible for workers to enter and work in the reactor building by operating the local exhausters since 12 pm on June 11th. We have also evaluated the influence of emission of radioactive materials that will be caused when we open the airlock, for further work, by evaluating the density of the radioactive materials in the reactor building at 16:00 on June 18th, 170 hours after operating local exhausters.

We have reviewed the density of radioactive materials in connection with the conditions such as climate condition assumed in the report to the reporting obligation ("report on June 15th"), expected the density around the surface of the ground and exposure dose and evaluated the density limit in the air outside the periphery areas and the influence of the instrument readings of the monitoring posts in comparison of exposure dose limitation per year for the general public.

1. Conditions of evaluation

The conditions other than the density of radioactive materials in the reactor building of Unit 2 are the same as the ones in the report on June 15th (see the Reference).

- (1) Climate conditions of emission
- (2) Height of emission
- (3) Volume of emission
- (4) Density of radioactive materials in reactor building of Unit 2
- (5) Evaluation model

2. Prediction result of density

We have calculated the maximum density around the site borders and compared it with the one in the air outside periphery areas. The result is shown in the Reference paper, that is, it has been confirmed that it is below the density limit in the air outside the periphery areas.

3. Prediction result of exposure dose

We have predicted the distribution and the maximum value of exposure dose. The result is shown in the Reference paper, that is, it has been confirmed that it is below the exposure limit per year for the general public (1mSv).

4. Comparison with the instrument readings of monitoring posts

We have evaluated the influence on the instrument readings of monitoring posts

based on the evaluation result of external exposure dose. The result is shown in the Reference paper, that is, it has been confirmed that it is not the level that changes the current instrument readings of monitoring posts of several dozen μ Sv/hr

END

Reference

The result of influence eva	luation after air infiltration	on in the reactor building of Unit 2

EvaluationEvaluationDensity of radioactive1-1314.9E-3 Bq/cm³Cs-1349.6E-3 Bq/cm³materials inside the building (after operating local exhausters)(S-1379.7E-3 Bq/cm³ConditionsVolume of infiltration8.100 m³/hDuration of infiltration (rate of emission is blowing up)8 hours 00 minutesConditionsDuration of infiltration (rate of emission is constant during constant)8 hours 00 minutesClimate conditionsWind directionEWind speed1.0m/sAtmospheric stabilityFExposure dose hoogy the aximum on the land side though the exposure) 1-1316.5E-4 mSvExternal exposure by the atmosphere (effective exposure) 1-1317.8E-8 mSvDensity result onts are inside the site)External exposure by the surface of the ground (effective exposure) 1-131Density result lowing resultDensity around the site borders1.0E-3 mSvRatio of space exposure1.4E-3 µSv/hDensity result lowing resultDensity around the site borders1.131Density result lowing resultDensity around the site borders1.92-9 Bq/cm³ (0.00028)Density result lowing resultDensity around the site borders1.93Density result lowing resultDensity around the site borders1.93Density result lowing result (effective exposure)2.9E-9 Bq/cm³ (0.00028)Density result lowing resultDensity around the site borders1.93Density result lowing result (ratio	I he result of influence evaluation after air inflitration in the reactor building of Unit 2			
Density radioactive materials inside the building (after operating local exhausters)I-1314.9E-3 Bq/cm3Cs-1349.6E-3 Bq/cm3Cs-1379.7E-3 Bq/cm3Cs-1379.7E-3 Bq/cm3conditionsVolume of infiltrationEmission conditionsVolume of infiltration (rate of emission is constant during constant)Height of emission (not considering the height of blowing up)29.9mClimate conditionsWind directionWind speed1.0m/sAtmospheric stabilityFExposure dose result inside the site)Internal exposure by breathing (effective exposure) I-131Points are inside the site)External exposure by the atmosphere (effective exposure) I-131Cs-134,1373.4E-6 mSvTotal (effective exposure)1.0E-3 mSvRatio of space exposure1.4E-3 µSv/hDensity resultDensity around the site borders I-1317.7E-7 Bq/cm3Otal (effective exposure)1.0E-6 Bg/cm3Averages in March (ratio to the density limit) I-1312.9E-9 Bq/cm3(0.00028)LatioCs-1345.6E-9 Bq/cm3(0.00028)LatioCs-1345.6E-9 Bq/cm3(0.00028)			Evaluation on density in the	
Density radioactive materials inside the building (after operating local exhausters)I-1314.9E-3 Bq/cm³Emission conditionsCs-1379.7E-3 Bq/cm³Emission conditionsVolume of infiltration filtration (rate of emission is constant during constant)8,100 m³/hDuration of infiltration (rate of emission is constant during constant)8,100 m³/hHeight of emission (not considering the height of blowing up)29.9mClimate conditionsWind directionEWind speed1.0m/sAtmospheric stabilityFExposure dose result (maximum on the land side though the points are inside the site)Internal exposure by breathing (effective exposure) I-131Density resultCs-134,1376.5E-4 mSvExternal exposure by the surface of the ground (effective exposure) I-1311.1E-6 mSvDensity resultDensity around the site borders I-1317.7E-7 Bq/cm³Density resultDensity around the site borders I-1317.7E-7 Bq/cm³Averages in March (ratio to the density limit) I-1312.9E-9 Bq/cm³(0.00028)LatiCs-1345.6E-9 Bq/cm³(0.00028)		Item of evaluation	*	
radioactive materials inside the building (after operating local exhausters) Cs-134 9.6E-3 Bq/cm³ Emission conditions Cs-137 9.7E-3 Bq/cm³ Emission conditions Volume of infiltration 8,100 m³/h Duration of infiltration (rate of emission is constant during constant) 8 hours 00 minutes Height of emission (not considering the height of blowing up) 29.9m Climate conditions Wind direction E Wind speed 1.0m/s Atmospheric stability F Exposure dose result Internal exposure by breathing (effective exposure) I-131 6.5E-4 mSv (maximum on the land side though the points are inside the site) External exposure by the atmosphere (effective exposure) I-131 7.8E-8 mSv External exposure by the surface of the ground (effective exposure) I-131 0.4E-6 mSv Total (effective exposure) 1.0E-3 mSv Ratio of space exposure 1.4E-3 µSv/h Density result Density around the site borders I-131 7.7E-7 Bq/cm³ Cs-134 1.5E-6 Bq/cm³ 2.9E-9 Bq/cm³ (0.00028) I-131 Cs-134 5.6E-9 Bq/cm³ (0.00028)				
materials inside the building (after operating local exhausters) CS-137 9.7E-3 Bq/cm ³ Emission conditions Volume of infiltration 8,100 m ³ /h Duration of infiltration (rate of emission is constant during constant) 8 hours 00 minutes Duration of infiltration (rate of emission is constant during constant) 8 hours 00 minutes Climate conditions Wind direction E Climate conditions Wind speed 1.0m/s Atmospheric stability F Exposure dose result Internal exposure by breathing (effective exposure) I-131 6.5E-4 mSv External exposure by the atmosphere (effective exposure) I-131 7.8E-6 mSv points are inside the site) External exposure by the surface of the ground (effective exposure) I-131 1.1E-6 mSv Density result Density around the site borders I-131 7.7E-7 Bq/cm ³ Averages in March (ratio to the density limit) I-131 2.9E-9 Bq/cm ³ (0.00028) I-131 Cs-134 5.6E-9 Bq/cm ³ (0.00028)	Density of	I-131	4.9E-3 Bq/cm ³	
the building (after operating localVolume of infiltration8,100 m³/hEmission conditionsVolume of infiltration (rate of emission is constant during constant)8 hours 00 minutesEmission constant during constant)29.9mHeight of emission (not considering the height of blowing up)29.9mClimate conditionsWind directionEConditionsWind directionEConditionsWind speed1.0m/sAtmospheric stabilityFExposure dose resultInternal exposure by breathing (effective exposure) 1-1313.4E-4 mSv(maximum on the land side inside the site)External exposure by the atmosphere (effective exposure) 1-1313.4E-6 mSvExternal exposure by the surface of the ground (effective exposure) 1-1311.1E-6 mSvDensity resultDensity around the site borders 1-1317.7E-7 Bq/cm³Density resultInstity around the site borders 1-1317.7E-7 Bq/cm³Internal exposure in March (ratio to the density limit) 1-1312.9E-9 Bq/cm³ (0.00028)	radioactive	Cs-134	9.6E-3 Bq/cm ³	
(after operating local exhausters)Volume of infiltration8,100 m³/hEmission conditionsVolume of infiltration (rate of emission is constant during constant)8 hours 00 minutesEmission constant during constant)029.9mHeight of emission (not considering the height of blowing up)29.9mClimate conditionsWind directionEConditionsWind speed1.0m/sAtmospheric stabilityFExposure dose result (maximum on the land side though the inside the site)External exposure by breathing (effective exposure) 1-131External exposure by the atmosphere (effective exposure) 1-1313.4E-6 mSvExternal exposure by the surface of the ground (effective exposure) 1-1311.1E-6 mSvExternal exposure by the surface of the ground (effective exposure) 1-1311.4E-3 µSv/hDensity resultDensity around the site borders 1-1317.7E-7 Bq/cm³Density resultCs-134, 1371.6E-6 Bq/cm³Averages in March (ratio to the density limit) 1-1312.9E-9 Bq/cm³ (0.00028)	materials inside	Cs-137	9.7E-3 Bq/cm ³	
local exhausters)Volume of infiltration8,100 m³/hEmission conditionsDuration of infiltration (rate of emission is constant during constant)8 hours 00 minutesClimate conditionsHeight of emission (not considering the height of blowing up)29.9mClimate conditionsWind directionEWind directionEKinospheric stabilityFExposure dose result (maximum on the land side 	the building			
exhausters)Volume of infiltration8,100 m³/hEmission conditionsDuration of infiltration (rate of emission is constant during constant)8 hours 00 minutesDuration of infiltration (rate of emission is constant during constant)8 hours 00 minutesHeight of emission (not considering the height of blowing up)29.9mClimate conditionsWind directionEWind speed1.0m/sAtmospheric stabilityFExposure dose result (maximum on the land side though the points are inside the site)External exposure by breathing (effective exposure) I-131External exposure by the atmosphere (effective exposure) I-1317.8E-8 mSvExternal exposure by the surface of the ground (effective exposure) I-1311.1E-6 mSvTotal (effective exposure)1.0E-3 mSvRatio of space exposure1.4E-3 µSv/hDensity resultDensity around the site borders I-1317.7E-7 Bq/cm³Otal (effective exposure)1.6E-6 Bq/cm³1.131Cs-1341.5E-6 Bq/cm³Cs-1341.5E-6 Bq/cm³Cs-1341.5E-6 Bq/cm³1.131Cs-1345.6E-9 Bq/cm³(0.00028)1.131Cs-1345.6E-9 Bq/cm³(0.00028)	(after operating			
Emission conditionsVolume of infiltration8,100 m³/hConditionsDuration of infiltration (rate of emission is constant during constant)8 hours 00 minutesHeight of emission (not considering the height of blowing up)29.9mClimate conditionsWind directionEConditionsWind directionEWind speed1.0m/sAtmospheric stabilityFInternal exposure by breathing (effective exposure) I-1313.6E-4 mSv(maximum on the land side though the points are inside the site)External exposure by the atmosphere (effective exposure) I-131Density resultDensity around the site borders I-1317.7E-7 Bq/cm³Density resultDensity around the site borders I-1317.7E-7 Bq/cm³Density resultCs-1341.5E-6 Bq/cm³Querces in March (ratio to the density limit) I-1312.9E-9 Bq/cm³(0.00028)Cs-1345.6E-9 Bq/cm³(0.00028)	local			
conditionsDuration of infiltration (rate of emission is constant during constant)8 hours 00 minutesHeight of emission (not considering the height of blowing up)29.9mClimateWind directionEconditionsWind speed1.0m/sAtmospheric stabilityFExposure doseInternal exposure by breathing (effective exposure) I-1313.6E-4 mSv(maximum on the land sideExternal exposure by the atmosphere (effective exposure) I-1317.8E-8 mSvpoints areCs-134,1373.4E-6 mSvinside the site)External exposure) I-1311.1E-6 mSvTotal (effective exposure) I-131Cs-134,1376.4E-6 mSvTotal (effective exposure) I-131T.7E-7 Bq/cm³Density resultDensity around the site borders I-1317.7E-7 Bq/cm³Lastio of space exposure1.4E-3 µSv/hDensity resultLensity around the site borders I-1317.7E-7 Bq/cm³Averages in March (ratio to the density limit)2.9E-9 Bq/cm³(0.00028)I-131Cs-1345.6E-9 Bq/cm³(0.00028)	exhausters)			
constant during constant)Height of emission (not considering the height of blowing up)29.9mClimate conditionsWind directionEConditionsWind speed1.0m/sAtmospheric stabilityFExposure dose result (maximum on the land side though the points are inside the site)Internal exposure by breathing (effective exposure by the atmosphere (effective exposure) 1-131External exposure by the atmosphere (effective exposure) 1-1317.8E-8 mSvExternal exposure by the surface of the ground (effective exposure) 1-1311.1E-6 mSvExternal exposure by the surface of the ground (effective exposure) 1-1311.1E-6 mSvTotal (effective exposure) Ratio of space exposure1.0E-3 mSvRatio of space exposure CS-1341.4E-3 µSv/hDensity resultDensity around the site borders 1-1317.7E-7 Bq/cm³Averages in March (ratio to the density limit) 1-1312.9E-9 Bq/cm³(0.00028)1-131CS-1345.6E-9 Bq/cm³ (0.00028)	Emission	Volume of infiltration	8,100 m³/h	
Height of emission (not considering the height of blowing up)29.9mClimate conditionsWind directionEConditionsWind speed1.0m/sAtmospheric stabilityFExposure dose result (maximum on the land side though the points are inside the site)Internal exposure by breathing (effective exposure) l-1313.6E-4 mSvExternal exposure by the atmosphere (effective exposure) l-1317.8E-8 mSvExternal exposure by the surface of the ground (effective exposure) l-1311.1E-6 mSvExternal exposure by the surface of the ground (effective exposure) l-1311.0E-3 mSvRatio of space exposure1.4E-3 µSv/hDensity resultDensity around the site borders l-1317.7E-7 Bq/cm³Cs-1341.5E-6 Bq/cm³Averages in March (ratio to the density limit) l-1312.9E-9 Bq/cm³(0.00028)Cs-1345.6E-9 Bq/cm³(0.00028)	conditions		8 hours 00 minutes	
Indexblowing up)IndexClimateWind directionEconditionsWind speed1.0m/sAtmospheric stabilityFExposure doseInternal exposure by breathing (effective exposure) I-1313.6E-4 mSv(maximum on the land side though the points are inside the site)External exposure by the atmosphere (effective exposure) I-1317.8E-8 mSv(maximum on the land side though the points are inside the site)External exposure by the surface of the ground (effective exposure) I-1313.4E-6 mSvTotal (effective exposure) I-1311.1E-6 mSv1.0E-3 mSvTotal (effective exposure) I-1311.0E-3 mSvRatio of space exposure1.4E-3 µSv/hDensity resultDensity around the site borders I-1317.7E-7 Bq/cm³Averages in March (ratio to the density limit) I-1312.9E-9 Bq/cm³ (0.00028)I-131I-1311.000028)			20.0m	
Climate conditionsWind directionEConditionsWind speed1.0m/sAtmospheric stabilityFExposure dose result (maximum on the land side though the points are inside the site)Internal exposure by breathing (effective exposure by the atmosphere (effective exposure) l-1313.6E-4 mSvExternal exposure by the atmosphere (effective exposure) l-1317.8E-8 mSvboints are inside the site)External exposure by the surface of the ground (effective exposure) l-1311.1E-6 mSvCs-134,1376.4E-6 mSvTotal (effective exposure)1.0E-3 mSvRatio of space exposure1.4E-3 µSv/hDensity resultDensity around the site borders l-1317.7E-7 Bq/cm³Cs-1341.5E-6 Bq/cm³Averages in March (ratio to the density limit) l-1312.9E-9 Bq/cm³(0.00028)I-131Cs-1345.6E-9 Bq/cm³(0.00028)			29.911	
conditionsWind speed1.0m/sAtmospheric stabilityFExposure doseInternal exposure by breathing (effective exposure) l-1313.6E-4 mSv(maximum on the land side though the points are inside the site)External exposure by the atmosphere (effective exposure) l-1317.8E-8 mSvExternal exposure by the atmosphere (effective exposure) l-1313.4E-6 mSvfective exposure) l-1311.1E-6 mSvinside the site)External exposure by the surface of the ground (effective exposure) l-1311.1E-6 mSvTotal (effective exposure) l-1311.0E-3 mSvRatio of space exposure1.4E-3 µSv/hDensity resultDensity around the site borders l-1317.7E-7 Bq/cm³Averages in March (ratio to the density limit) l-1312.9E-9 Bq/cm³(0.00028)I-131Cs-1345.6E-9 Bq/cm³(0.00028)	Climate		F	
Atmospheric stabilityFExposure dose resultInternal exposure by breathing (effective exposure) I-1313.6E-4 mSv(maximum on the land side though the points are inside the site)External exposure by the atmosphere (effective exposure) I-1317.8E-8 mSv(maximum on though the points are inside the site)External exposure by the surface of the ground (effective exposure) I-1311.1E-6 mSv(maximum on though the points are inside the site)External exposure by the surface of the ground (effective exposure) I-1311.1E-6 mSv(affective exposure) I-131Cs-134,1376.4E-6 mSvTotal (effective exposure)1.0E-3 mSvRatio of space exposure1.4E-3 µSv/hDensity resultDensity around the site borders I-1317.7E-7 Bq/cm³Averages in March (ratio to the density limit) I-1312.9E-9 Bq/cm³ (0.00028)I-131Cs-1345.6E-9 Bq/cm³ (0.00028)				
Exposure dose result (maximum on the land side though the points are inside the site)Internal exposure by breathing (effective exposure) l-1313.6E-4 mSvExternal exposure by the atmosphere (effective exposure) l-1317.8E-8 mSvExternal exposure by the surface of the ground (effective exposure) l-1311.1E-6 mSvExternal exposure by the surface of the ground (effective exposure) l-1311.1E-6 mSvExternal exposure by the surface of the ground (effective exposure) l-1311.1E-6 mSvTotal (effective exposure)1.0E-3 mSvRatio of space exposure1.4E-3 µSv/hDensity resultDensity around the site borders l-1317.7E-7 Bq/cm³Averages in March (ratio to the density limit) l-1312.9E-9 Bq/cm³(0.00028)I-131Cs-1345.6E-9 Bq/cm³(0.00020)	conditions			
result (maximum on the land side though the points are inside the site) exposure) I-131 Cs-134,137 6.5E-4 mSv External exposure by the atmosphere (effective exposure) I-131 7.8E-8 mSv points are inside the site) External exposure by the surface of the ground (effective exposure) I-131 1.1E-6 mSv External exposure by the surface of the ground (effective exposure) I-131 1.1E-6 mSv Total (effective exposure) I-131 1.0E-3 mSv Ratio of space exposure 1.4E-3 µSv/h Density result Density around the site borders I-131 7.7E-7 Bq/cm ³ Cs-134 1.5E-6 Bq/cm ³ Averages in March (ratio to the density limit) I-131 2.9E-9 Bq/cm ³ (0.00028) Cs-134 5.6E-9 Bq/cm ³ (0.00028)	Exposure dose			
(maximum on the land side though the points are inside the site)External exposure by the atmosphere (effective exposure) I-1317.8E-8 mSvpoints are inside the site)External exposure by the surface of the ground (effective exposure) I-1311.1E-6 mSvExternal exposure by the surface of the ground (effective exposure) I-1311.1E-6 mSvTotal (effective exposure) I-1316.4E-6 mSvTotal (effective exposure)1.0E-3 mSvRatio of space exposure1.4E-3 µSv/hDensity resultDensity around the site borders I-1317.7E-7 Bq/cm³Cs-1341.5E-6 Bq/cm³Averages in March (ratio to the density limit) I-1312.9E-9 Bq/cm³(0.00028)L-131Cs-1345.6E-9 Bq/cm³(0.00028)			3.02-4 1130	
the land side though the points are inside the site)External exposure by the atmosphere (effective 			6 5E-4 mSv	
though pointsthe exposure)I-131I-12-6 mSvinside the site)External exposure by the surface of the ground (effective exposure)1.1E-6 mSvExternal exposure by the surface of the ground (effective exposure)1.1E-6 mSvTotal (effective exposure)1.0E-3 mSvRatio of space exposure1.4E-3 μSv/hDensity resultDensity around the site borders1-131Image: the site of the density limit)2.9E-9 Bq/cm³ (0.00028)Image: the site of the density limit)2.9E-9 Bq/cm³ (0.00028)Image: the site of the density limit)2.9E-9 Bq/cm³ (0.00028)				
pointsare inside the site)Cs-134,1373.4E-6 mSvExternal exposure by the surface of the ground (effective exposure) I-1311.1E-6 mSvCs-134,1376.4E-6 mSvTotal (effective exposure)1.0E-3 mSvRatio of space exposure1.4E-3 µSv/hDensity resultDensity around the site borders I-131Cs-1341.5E-6 Bq/cm³Cs-1371.6E-6 Bq/cm³Averages in March (ratio to the density limit) I-1312.9E-9 Bq/cm³ (0.00028)Cs-1375.6E-9 Bq/cm³ (0.00028)Cs-1375.9E-9 Bq/cm³ (0.00020)			7.0E-0 mov	
inside the site) External exposure by the surface of the ground (effective exposure) I-131 External exposure by the surface of the ground (effective exposure) I-131 Cs-134,137 6.4E-6 mSv Total (effective exposure) 1.0E-3 mSv Ratio of space exposure 1.4E-3 μSv/h Density result Density around the site borders I-131 7.7E-7 Bq/cm ³ Cs-134 1.5E-6 Bq/cm ³ Averages in March (ratio to the density limit) 2.9E-9 Bq/cm ³ (0.00058) I-131 Cs-134 5.6E-9 Bq/cm ³ (0.00028) Cs-137 5.9E-9 Bq/cm ³ (0.00020)	•		3.4E-6 mSv	
Internal onpoone by the canade of the ground Internal onpoone by the canade of the ground (effective exposure) I-131 Cs-134,137 6.4E-6 mSv Total (effective exposure) 1.0E-3 mSv Ratio of space exposure 1.4E-3 µSv/h Density result Density around the site borders I-131 7.7E-7 Bq/cm ³ Cs-134 1.5E-6 Bq/cm ³ Cs-137 1.6E-6 Bq/cm ³ Averages in March (ratio to the density limit) 2.9E-9 Bq/cm ³ (0.00058) I-131 Cs-134 5.6E-9 Bq/cm ³ (0.00028) Cs-137 5.9E-9 Bq/cm ³ (0.00020)	•			
Cs-134,137 6.4E-6 mSv Total (effective exposure) 1.0E-3 mSv Ratio of space exposure 1.4E-3 μSv/h Density result Density around the site borders I-131 7.7E-7 Bq/cm ³ Cs-134 1.5E-6 Bq/cm ³ Cs-137 1.6E-6 Bq/cm ³ Averages in March (ratio to the density limit) 2.9E-9 Bq/cm ³ (0.00058) I-131 Cs-134 5.6E-9 Bq/cm ³ (0.00028) Cs-137 5.9E-9 Bq/cm ³ (0.00020)			1.12-0 1100	
Ratio of space exposure 1.4E-3 μSv/h Density result Density around the site borders I-131 7.7E-7 Bq/cm ³ Cs-134 1.5E-6 Bq/cm ³ 1.6E-6 Bq/cm ³ Averages in March (ratio to the density limit) 2.9E-9 Bq/cm ³ (0.00058) I-131 Cs-134 5.6E-9 Bq/cm ³ (0.00028) Cs-137 5.9E-9 Bq/cm ³ (0.00020)			6.4E-6 mSv	
Density result Density around the site borders I-131 7.7E-7 Bq/cm ³ Cs-134 1.5E-6 Bq/cm ³ 1.6E-6 Bq/cm ³ Averages in March (ratio to the density limit) 2.9E-9 Bq/cm ³ (0.00058) I-131 Cs-134 5.6E-9 Bq/cm ³ (0.00028) Cs-137 5.9E-9 Bq/cm ³ (0.00020)		Total (effective exposure)	1.0E-3 mSv	
Density result Density around the site borders I-131 7.7E-7 Bq/cm ³ Cs-134 1.5E-6 Bq/cm ³ 1.6E-6 Bq/cm ³ Averages in March (ratio to the density limit) 2.9E-9 Bq/cm ³ (0.00058) I-131 Cs-134 5.6E-9 Bq/cm ³ (0.00028) Cs-137 5.9E-9 Bq/cm ³ (0.00020)		Ratio of space exposure	1.4E-3 µSv/h	
Cs-134 1.5E-6 Bq/cm³ Cs-137 1.6E-6 Bq/cm³ Averages in March (ratio to the density limit) 2.9E-9 Bq/cm³ (0.00058) I-131 Cs-134 5.6E-9 Bq/cm³ (0.00028) Cs-137 5.9E-9 Bq/cm³ (0.00020)	Density result			
Averages in March (ratio to the density limit) 2.9E-9 Bq/cm ³ (0.00058) I-131 Cs-134 5.6E-9 Bq/cm ³ (0.00028) Cs-137 5.9E-9 Bq/cm ³ (0.00020)		Cs-134		
I-131 Cs-134 5.6E-9 Bq/cm ³ (0.00028) Cs-137 5.9E-9 Bq/cm ³ (0.00020)		Cs-137	1.6E-6 Bq/cm ³	
Cs-1345.6E-9 Bq/cm³ (0.00028)Cs-1375.9E-9 Bq/cm³ (0.00020)		Averages in March (ratio to the density limit)	2.9E-9 Bq/cm ³ (0.00058)	
Cs-137 5.9E-9 Bq/cm ³ (0.00020)		I-131		
Cs-137 5.9E-9 Bq/cm ³ (0.00020)		Cs-134	5.6E-9 Bq/cm ³ (0.00028)	
		Cs-137		