Progress milestone dates are defined as follows:

Removal: The date when an equipment is removed

Entry to power station: The date when an equipment is carried into the relevant building within the premises after repair/production Installation: The date when all the equipments are installed on the mount

Function check: The date when an equipment is checked and confirmed that the unit is recovered and functions as a system

(e.g.) For power panels, the date when they start receiving power supply; for facilities, the date when trial running after system recovery (except for power supply) is conducted and confirmed that there is no problem; etc.

Switch to permanent installation: The date of switching from temporary installation to permanent installation (mainly for power supply) Planned completion of permanent installation: Planned date when permanent installation is completed (The completion date for equipments that have already completed the permanent installation)

Fukushima Daini Nuclear Power Station: Progress Status Based on the Recovery Plan (As of the End of December 2012)

Unit 1 (1/2) Equipment			Legend: : Underway, inspection, repair : Completed : Not started : Outside of the scope Write the date when finished (completed) : Updated from the previous monthly report								
			Work type	Removal	Removal Entry to station	Installation	Function check	Switch to permanent installation	Planned completion of permanent installation	Internal inspection	
6.0.kV/po	war system	C system	New production of power panel (M/C 1C)	2011/10/31	2012/3/15	2012/3/28	2012/9/27		2012/9/27		
6.9 kV power system H system		H system	New production of power panel (M/C 1HPCS)	2012/8/29	2012/10/24	2012/11/1			2012 2nd half		
			New production of power panel (P/C 1C-1)	2011/12/7	2012/4/13	2012/4/19	2012/10/29		2012/10/29		
480 V pov			New production of power panel (P/C 1C-2)	2011/11/11	2012/7/3	2012/7/10			2012 2nd half		
		D-2 system	New production of power panel (P/C 1D-2)	2011/12/14	2012/6/12	2012/6/18	2012/12/27		2012/12/27		
ū	Control panel and related equipment		New production	2012/8/2	2012/9/21	2012/10/1			2012 2nd half		
generator	Power generator	A system	New production & repair	2011/8/29	2012/8/20	2012/8/31			2012 2nd half		
gen	Diesel engine		Repair						2012 2nd half		
diesel	Auxiliary facility		New production & repair	2012/1/23	2012/12/11	2012/12/12			2012 2nd half		
	Control panel and related equipment		New production	2011/11/15	2012/11/5	2012/11/9			2012 2nd half		
genc	Power generator	H system	New production & repair	2011/10/19	2012/10/18	2012/11/1			2012 2nd half		
Emergency	Diesel engine	TT System	Repair						2012 2nd half		
ш	Auxiliary facility		New production & repair	2012/1/23					2012 2nd half		
DC	Battery charger		New production	2011/9/16	2012/12/3	2012/12/3			2012 2nd half		
power supply	Battery	H system	New production	2011/6/3	2012/12/3	2012/12/18			2012 2nd half		
Seismometer New production & replacement		New production & replacement	2012/8/3	2012/6/1	2012/6/13	2012/8/6		2012/8/6	2012/11/27		
Low-press	I OW-DIESSUIE COLE SDIAV SYSTEM		Recovery of high-voltage power supply (M/C 1C) system and cables						2012 2nd half		

Appendix 1

Fukushima Daini Nuclear Power Station: Progress Status Based on the Recovery Plan (As of the End of December 2012)

Unit 1 (2/2)			: Underway, ite when finis		epair : Co eted) : Upo			d : Outsid monthly rep	e of the scope ort
Equipment		Work type	Removal	Entry to power station	Installation	Function check	Switch to permanent installation	Planned completion of permanent installation	Internal inspection
	A system	Recovery of high-voltage power supply (M/C 1C) system and cables				2011/11/17		2012 2nd half	
Residual heat removal system	C system	Recovery of high-voltage power supply (M/C 1C) system and cables				2012/10/22	2012/10/22	2012/10/22	
	A system	Recovery of power supply (P/C 1C-2) system and cables		2011/10/26	23.10.27	2011/11/9		2012 2nd half	
	B system	Recovery of power supply (P/C 1D-2) system and cables		2011/9/20	2011/9/21	2011/9/26		2012 2nd half	
Residual heat removal system cooling system	C system	Recovery of power supply (P/C 1C-2) system and cables		2012/5/22	2012/5/22	2012/7/24		2012 2nd half	
	D system	Recovery of power supply (P/C 1D-2) system and cables		2011/9/20	2011/9/20	2012/3/15		2012 2nd half	
	A system	Recovery of power supply (P/C 1C-2) system and cables		2011/8/5	2011/11/2	2011/11/11		2012 2nd half	
Residual heat removal system cooling seawater	B system	Recovery of power supply (P/C 1D-2) system and cables			2012/4/5	2012/4/12		2012 2nd half	
system	C system	Recovery of power supply (P/C 1C-2) system and cables		2011/8/5	2012/5/15			2012 2nd half	
	D system	Recovery of power supply (P/C 1D-2) system and cables			2012/1/6	2012/1/12		2012 2nd half	
	A system	Recovery of power supply (P/C 1C-2) system and cables		2011/10/26	2011/10/27	2011/11/4		2012 2nd half	
Emergency diesel generator cooling system	B system	Recovery of power supply (P/C 1D-2) system and cables		2011/11/22	2011/11/25	2011/11/26		2012 2nd half	
Reactor water cleanup system	A system	Recovery of power supply (P/C 1C-1) system and cables, and permanent installation of						2012 2nd half	
reactor water cleanup system	B system	Permanent installation of purge line						2012 2nd half	
High-pressure core spray system		Recovery of high-voltage power supply (M/C 1HPCS) system and cables						2012 2nd half	
High-pressure core spray system closed cooling system		Recovery of high-voltage power supply (M/C 1HPCS) system and cables		2012/12/13	2012/12/13			2012 2nd half	
High-pressure core spray system closed cooling seawater system		Recovery of high-voltage power supply (M/C 1HPCS) system and cables			2012/12/26			2012 2nd half	
	A system	Recovery of power supply (P/C 1C-2) system and cables		2012/6/12	2012/6/13	2012/6/19		2012 2nd half	
Reactor auxiliary cooling system	B system	Recovery of power supply (P/C 1D-2) system and cables		2011/7/2	2011/7/4	2011/7/14		2012 2nd half	
Condensate water makeup system	A system	Recovery of power supply (P/C 1C-1) system and cables						2012 2nd half	
Standby gas treatment system	A system	Recovery of power supply (P/C 1C-1) system and cables				2012/12/14	2012/12/14	2012/12/14	2012/12/14

* MC: Metal-Clad Switch Gear

Power panel used for in-plant high voltage circuit, which is compact storage of magnetic or vacuum circuit breaker, protective relay, and ancillary meters.

* P/C: Power Center

Power panel used for in-plant low voltage circuit, which is compact storage of air circuit breaker (ACB), protective relay, and ancillary meters.

Current progress rate is 68% (Previous month: 58%)

Note: Progress rate = (Number of completion columns)/(Total columns from removal to permanent installation - Number of columns in scope) x 100

* At the internal inspection after the permanent installation, the equipments subject to the Recovery Plan will be tested.

* Purge line: Seal water line of reactor water cleanup system circulation pump

Fukushima Daini Nuclear Power Station: Progress Status Based on the Recovery Plan (As of the End of December 2012)

Unit 2 Equipment		Legend: : Underway, inspection, repair : Completed : Not started : Outside of the scope Write the date when finished (completed) : Updated from the previous monthly report								
		Work type	Removal	Entry to power station	Installation	Function check	Switch to permanent installation	Planned completion of permanent installation	Internal inspection	
480 V power system	C-2 system	New production of power panel (P/C 2C-2)	2012/6/13	2012/9/3	2012/9/11	2012/11/12		2012/11/12		
	D-2 system	New production of power panel (P/C 2D-2)	2012/7/6	2012/10/15	2012/10/29	2012/12/25		2012/12/25		
	A system	Recovery of power supply (P/C 2C-2) system and cables				2011/8/6	2012/11/28	2012/11/28		
Residual best removal system cooling system	B system	Recovery of power supply (P/C 2D-2) system and cables				2011/3/14		2012 2nd half		
Residual heat removal system cooling system	C system	Recovery of power supply (P/C 2C-2) system and cables				2012/11/28	2012/11/28	2012/11/28		
	D system	Recovery of power supply (P/C 2D-2) system and cables				2011/3/24		2012 2nd half		
	A system	Recovery of power supply (P/C 2C-2) system and cables		2011/7/28	2011/7/28	2011/8/6	2012/11/26	2012/11/26		
Residual heat removal system cooling seawater	B system	Recovery of power supply (P/C 2D-2) system and cables		2012/3/1	2012/9/11			2012 2nd half		
system	C system	Recovery of power supply (P/C 2C-2) system and cables		2011/8/2	2012/9/13	2012/11/29	2012/11/29	2012/11/29		
	D system	Recovery of power supply (P/C 2D-2) system and cables		2011/9/12	2011/9/12	2011/10/12		2012 2nd half		
	A system	Recovery of power supply (P/C 2C-2) system and cables		2011/7/26	2011/7/26	2011/8/3	2012/11/26	2012/11/26		
Emergency diesel generator cooling system	B system	Recovery of power supply (P/C 2D-2) system and cables				2011/3/14		2012 2nd half		
	A system	Recovery of power supply (P/C 2C-2) system and cables		2012/6/5	2012/6/5	2012/6/14	2012/11/29	2012/11/29		
Reactor auxiliary cooling system	B system	Recovery of power supply (P/C 2D-2) system and cables		2011/6/28	2011/6/28	2011/7/12		2012 2nd half		
Reactor water cleanup system	A system	Permanent installation of purge line						2012 2nd half		
	B system	Permanent installation of purge line						2012 2nd half		
High-pressure core spray system closed cooling s system	eawater	New production of motor	2011/9/2	2012/10/3	2012/10/3	2012/10/11		2012/10/11		

* P/C: Power Center

Power panel used for in-plant low voltage circuit, which is compact storage of air circuit breaker (ACB), protective relay, and ancillary meters.

* Purge line: Seal water line of reactor water cleanup system circulation pump

Current progress rate is 82% (Previous month: 80%)

Note: Progress rate = (Number of completion columns)/(Total columns from removal to permanent installation - Number of columns in scope) x 100

* At the internal inspection after the permanent installation, the equipments subject to the Recovery Plan will be tested.

Fukushima Daini Nuclear Power Station: Progress Status Based on the Recovery Plan (As of the End of December 2012)

Unit 3		Legend: : Underway, inspection, repair : Completed : Not started : Outside of the scope Write the date when finished (completed) : Updated from the previous monthly report									
Equipment		Work type	Removal	Entry to power station	Installation	Function check	Switch to permanent installation	Planned completion of permanent installation	Internal inspection		
480 V power system	C-2 system	New production of power panel (P/C 3C-2)	2011/9/15	2012/1/26	2012/1/27	2012/8/27		2012/8/27	2012/9/28		
Residual heat removal system cooling system	A System	Recovery of power supply (P/C 3C-2) system and cables		2011/8/2	2011/8/3	2011/8/26	2012/9/12	2012/9/12	2012/9/28		
	L. System	Recovery of power supply (P/C 3C-2) system and cables		2011/8/29	2011/8/30	2011/9/9	2012/9/13	2012/9/13	2012/9/28		
Residual heat removal system cooling seawater system		Recovery of power supply (P/C 3C-2) system and cables		2011/8/24	2011/8/24	2011/8/30	2012/9/11	2012/9/11	2012/9/28		
		Recovery of power supply (P/C 3C-2) system and cables		2011/9/5	2011/9/7	2011/9/14	2012/9/11	2012/9/11	2012/9/28		
Emergency diesel generator cooling system	A System	Recovery of power supply (P/C 3C-2) system and cables		2011/8/2	2011/8/3	2011/8/23	2012/9/6	2012/9/6	2012/9/28		
Reactor water cleanup system	A system	Permanent installation of purge line					2012/10/4	2012/10/4	2012/10/11		
	B system	Permanent installation of purge line					2012/10/11	2012/10/11	2012/10/11		

* P/C: Power Center

Power panel used for in-plant low voltage circuit, which is compact storage of air circuit breaker (ACB), protective relay, and ancillary meters.

* Purge line: Seal water line of reactor water cleanup system circulation pump

Restoration completed on October 11, 2012

(Progress rate: 100%)

Note: Progress rate = (Number of completion columns)/(Total columns from removal to permanent installation - Number of columns in scope) x 100

* At the internal inspection after the permanent installation, the equipments subject to the Recovery Plan will be tested.

Fukushima Daini Nuclear Power Station: Progress Status Based on the Recovery Plan (As of the End of December 2012)

Unit 4 Equipment		Legend: : Underway, inspection, repair : Completed : Not started : Outside of the scope Write the date when finished (completed) : Updated from the previous monthly report								
		Work type	Removal	Entry to power station	Installation	Function check	Switch to permanent installation	Planned completion of permanent installation	Internal	
480 V power system	C-2 system	New production of power panel (P/C 4C-2)	2011/9/7	2011/12/2	2011/12/9	2012/1/30		2012/1/30	2010/5/15	
	D-2 system	New production of power panel (P/C 4D-2)	2011/9/30	2012/2/28	2012/3/8	2012/3/23		2012/3/23	2010/5/16	
Residual heat removal system cooling system	A system	Recovery of power supply (P/C 4C-2) system and cables		2011/7/8	2011/7/8	2011/7/25	2012/2/24	2012/2/24	2010/5/15	
	B system	Recovery of power supply (P/C 4D-2) system and cables		2011/7/5	2011/7/5	2011/7/7	2012/4/11	2012/4/11	2010/5/16	
	C system	Recovery of power supply (P/C 4C-2) system and cables		2012/4/19	2012/4/19	2012/4/26	2012/4/26	2012/4/26	2010/5/15	
	D system	Recovery of power supply (P/C 4D-2) system and cables		2011/9/5	2011/9/5	2011/9/29	2012/4/12	2012/4/12	2010/5/16	
	A system	Recovery of power supply (P/C 4C-2) system and cables		2011/7/27	2011/7/27	2011/8/2	2012/2/24	2012/2/24	2010/5/15	
Residual heat removal system cooling seawater	B system	Recovery of power supply (P/C 4D-2) system and cables		2011/9/7	2011/9/7	2011/9/21	2012/4/11	2012/4/11	2010/5/16	
system	C system	Recovery of power supply (P/C 4C-2) system and cables		2011/7/27	2012/4/18	2012/4/26	2012/4/26	2012/4/26	2010/5/15	
	D system	Recovery of power supply (P/C 4D-2) system and cables		2012/4/17	2012/4/17	2012/4/25	2012/4/25	2012/4/25	2010/5/16	
Emergency diesel generator cooling system	A system	Recovery of power supply (P/C 4C-2) system and cables		2011/7/8	2011/7/8	2011/7/21	2012/2/24	2012/2/24	2010/5/15	
	B system	Recovery of power supply (P/C 4D-2) system and cables				2011/3/14	2012/4/12	2012/4/12	2010/5/16	
Reactor water cleanup system	A system	Permanent installation of purge line					2012/5/11	2012/5/11	2010/5/17	
	B system	Permanent installation of purge line					2012/5/17	2012/5/17	2010/5/17	

* P/C: Power Center

Power panel used for in-plant low voltage circuit, which is compact storage of air circuit breaker (ACB), protective relay, and ancillary meters.

* Purge line: Seal water line of reactor water cleanup system circulation pump

Restoration completed on May 17, 2012 (Progress rate:

100%)

Note: Progress rate = (Number of completion columns)/(Total columns from removal to permanent installation - Number of columns in scope) x 100

Appendix 1

Fukushima Daini Nuclear Power Station Progress status based on Recovery Plan (As of the end of December 2012)

Common facilities		Leger Write	: Completed : Not started : Outside of the scope : Updated from the previous monthly report						
Equipment		Work type	Removal	Entry to power station	Installation	Function check	Switch to permanent installation	Planned completion of permanent installation	Remarks
Outlet monitor	Units 1& 2	New production & replacement		2012/12/7	2012/12/10			2012 2nd half	
	Units 3& 4	New production & replacement		2012/9/4	2012/9/11	2012/9/21	2012/9/21	2012/9/21	2012/9/21

Current progress rate is 83% (Previous month: 50%)

Note: Progress rate = (Number of completion columns)/(Total columns from removal to permanent installation - Number of columns in scope) x 100

* At the internal inspection after the permanent installation, the equipments subject to the Recovery Plan will be tested.