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 November 2012)

Unit 1 (1/2)			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	
6.9 kV pov	ver 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		
0.9 KV POV	ver system	H system	New production of power panel (M/C 1HPCS)	2012/8/29	2012/10/24	2012/11/1			2012 2nd half		
	C-1 system		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 power system C-		C-2 system	New production of power panel (P/C 1C-2)	2011/11/11	2012/7/3	2012/7/10			2012 2nd half		
			New production of power panel (P/C 1D-2)	2011/12/14	2012/6/12	2012/6/18			2012 2nd half		
or	Control panel and related equipment	A system	New production	2012/8/2	2012/9/21	2012/10/1			2012 2nd half		
erat	Power generator		New production & repair	2011/8/29	2012/8/20	2012/8/31			2012 2nd half		
gen	Diesel engine		Repair						2012 2nd half		
esel	Auxiliary facility		New production & repair	2012/1/23					2012 2nd half		
i Š	Control panel and related equipment		New production	2011/11/15	2012/11/5	2012/11/9			2012 2nd half		
Emergency diesel generator	Power generator	H system	New production & repair	2011/10/19	2012/10/18	2012/11/1			2012 2nd half		
merç	Diesel engine	11 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 2nd half		
power supply	Dotton/		New production	2011/6/3					2012 2nd half		
Seismom	eter		New production & replacement	2012/8/3	2012/6/1	2012/6/13	2012/8/6		2012/8/6	2012/11/27	
Low-press	ure core spray system		Recovery of high-voltage power supply (M/C 1C) system and cables						2012 2nd half		

Unit 1 (2/2)		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  Recovery of high-voltage power supply (M/C	Removal	Entry to power station	Installation	Function check	Switch to permanent installation	Planned completion of permanent installation	Internal inspection	
Pacidual host removal system	A system					2011/11/17		2012 2nd half		
residual fieat 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		
Residual heat removal system cooling system	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 fleat 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		
Emergency diesel generator cooling system	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 dieser 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		
	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 s	system	Recovery of high-voltage power supply (M/C 1HPCS) system and cables						2012 2nd half		
High-pressure core spray system closed cooling s system	High-pressure core spray system closed cooling seawater system							2012 2nd half		
Reactor auxiliary cooling system	A system	1HPCS) system and cables Recovery of power supply (P/C 1C-2) system and cables		2012/6/12	2012/6/13	2012/6/19		2012 2nd half		
	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 2nd half		

<sup>\*</sup> 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 58% (Previous month: 55%)

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.

<sup>\*</sup> Purge line: Seal water line of reactor water cleanup system circulation pump

# 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 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 2nd half	
	A system	Recovery of power supply (P/C 2C-2) system and cables				2011/8/6	2012/11/28	2012/11/28	
Residual heat removal system cooling system	B system	Recovery of power supply (P/C 2D-2) system and cables				2011/3/14		2012 2nd half	
Residual neat 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	
Emergency diesel generator cooling system	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 dieser generator cooling system	B system	Recovery of power supply (P/C 2D-2) system and cables				2011/3/14		2012 2nd half	
Decetes awillow and line aveter	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 so system	eawater	New production of motor	2011/9/2	2012/10/3	2012/10/3	2012/10/11		2012/10/11	

<sup>\*</sup> 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 80% (Previous month: 63%)

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.

<sup>\*</sup> Purge line: Seal water line of reactor water cleanup system circulation pump

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	
	C 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	A 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	
seawater system	C system	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	

<sup>\*</sup> 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.

#### 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

<sup>\*</sup> Purge line: Seal water line of reactor water cleanup system circulation pump

<sup>\*</sup> At the internal inspection after the permanent installation, the equipments subject to the Recovery Plan will be tested.

Unit 4	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 4C-2)	2011/9/7	2011/12/2	2011/12/9	2012/1/30		2012/1/30	2010/5/15
400 v power system	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
Emergency dieser generator cooling system	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

<sup>\*</sup> 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.

#### 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

<sup>\*</sup> Purge line: Seal water line of reactor water cleanup system circulation pump

Common fa	acilities	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	Remarks		
Outlet monitor	Units 1& 2	New production & replacement						2012 2nd half			
Outlet monitor	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 50% (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.