| | | | | Attachment | | | | | | | | | |
|---|----------------------|---|---|---|--|--|--|--|-----------------------|---------------------|----------|----------------------------------|------------------------|
| | FY2011 | | | | | FY | | FY | 72013 | | | | |
| | Apr June | July - Sept. | Oct Dec. | Jan Mar. | Apr June | July - Sept. | Oct Dec. | Jan Mar. | Apr June | July - Sept. | C | Oct Dec. | Jan Mar. |
| Flooding prevention measures 1 (prevent flooding on station site) | | | | | • | <u>.</u> | . <u>.</u> | | | | | | |
| ◆Flooding prevention measures Build sea wall on seaward side of station site | | surface exploration, s nd preparation work VS Ma | PNov. 8 Comp ept. 22 Begin in preparation work (▼Nov. 11 Be | lete installing steel sheet (| | ilete ies, stabilizing soil, et | . .) | I I I Complete setup of a | bove-ground wall (sc | neduled) | | | |
| Build up dune embankment and east-west embankment at front of station site | | | | | | | embankment (dune e embankment (east-v | VEmbankment build nþankment) | ing complete (schedu | đed) | | | |
| Overflow countermeasures Set up water barriers in seawater intake pump area Close discharge pit, discharge channel opening | ▼Apr. 5 Begin Nos | 3, 4 Set up Nos. 3, 4, 5 | water barriers | ▼Jan. 11 Begin No | 5 | Clos | e discharge pit, disch | I I I arge channel opening I | | | | | |
| Flooding prevention measures 2 (prevent flooding in buildings) | | | | | | | | | | | | | |
| ◆Maintain seawater cooling function Set up emergency seawater intake system (EWS) | | | ▼Nov. | ▼Jan. 28 Begin e ec. 6 Begin excavati 24 Begin excavating | ccavating for No. 5 pi ig for No. 4 pump cha for No. 3 pump cham mber (civil engineerin | mber gwork) Install pumps, pipes ↓June 30 Begin No. 3 ↓July 12 Begin No. | etc. (mechanical and mechanical and ele 4 mechanical and ele 5 mechanical and ele | ctrical work | rary power supply) | | | Test (Power sup) | ily on high ground) |
| Measures to keep flotsam out of water intake tanks | | | | | | | Measures to keep f | | | | | | |
| Prevent flooding in buildings Enhance reliability of waterproof doors in outer walls of buildings Measures to prevent flooding from building | from l etc. | / 31 Complete measu Nos. 3-5 reactor build | ing waterproof doors | Enhance reliabilit | y of waterproof doors | | | | | | | | |
| outer walls' air supply/vents (openings) | ▼ May | 31 Complete measure | es to prevent flooding | from Nos. 4, 5 react | r buildings (air supply | /vents) Measures | to prevent flooding fr | am building outer wall | s'air supply/vents (c | penings) (concernin | g heat e | xchanger | |
| Measures to prevent flooding from building through-ways (improve seal) | ▼May 2 Begir ▼May | 31 Complete measure | es to prevent flooding | from Nos. 3–5 react | r building pipe-throu | gh Measures to | prevent flooding fro | mibuilding through-wa | vs (improve seal) | | | | |
| Close underground pipe/duct inspection openings, entry doors | | | | | | | Close underground | pipe/duct inspection o | penings, entry | | | - | |
| Strengthen building structure (Nos. 4, 5 seawater heat exchanger buildings) | | | | s to prevent flooding uipment hatch | | ne 11 Begin Nos. 4, 5 Measures | to prevent flooding - | t outer walls of heat (| xchanger buildings, s | rrengthen building | | | |
| Equipment room flooding prevention Strengthen building drainage measures (set up drainage pumps) Reinforce already installed watertight doors and add new ones | | | | ▼Mar. Rei | Begin nforce already installe | | tall drainage pump, p | pd, etc. | | | | | |
| Measures to prevent flooding from equipment room through-ways (improve seal) | | | | | | Measures to | prevent flooding fro | I I Mjequipment room th I | ough-ways (improve | seal) (by setting | | er panels, etc. d high ground | , on upper floors) |

| | FY2011 | | | | | FY | 2012 | | FY2013 | | | | |
|---|---------------------|--------------------------------|------------------------|--|---|-------------------------------------|--------------------------|---|---|--|--|---------------------|--|
| | Apr June | July - Sept. | Oct Dec. | Jan Mar. | Apr June | July - Sept. | Oct Dec. | Jan Mar. | Apr June | July - Sept. | Oct Dec. | Jan Mar. | |
| Enhancement of emergency measures | _ | | | : | - | | : | | _ | 1 | | : | |
| Power supply equipment measures | | | | | | | | | | | | | |
| Set up gas turbine generators on high | ▼Apr. 20 Arran | ge for gas turbines | | | Mar. 26 Bring in 3 ga | s turbine generators | ا Mar. 27 Conduct sit | e receiving tests | | | | | |
| | Build gas | turbine generators ar | nd fuel tanks (at fact | ory) | | | ························ | | · | Tes | t de la constante de | | |
| | | | | | | Gas Gas | turbine building (seisr | nic base isolation) wo I | rk j I ↓ | | | | |
| | | | ▼Nov. | 21 Begin high ground | forming ▼May 3 | 1 Complete | | | | ll equipment | . | | |
| Set up power panels, etc., on upper floors | | | | | | | ld electrical devices/r | |)) | | Comprehen | sive testing | |
| and high ground | | | | | | Elec | ctrical goods building | work | | Test | | ned testing with | |
| | | | | | | | | Power pa | anel installation | | gas turbine | generator | |
| Set up emergency generators on building | | | | | | | | | | | | | |
| rooftops | Install on building | June 24 Complete in rooftop | stallation to interme | iate rooftops of Nos. | 1–5 reactor buildings | | | 1 | | | | | |
| | | | | | | | | | | | | | |
| Secure spare storage batteries | | | | range for spare stora and install spare sto | | | | | | | | | |
| | | | Secure | | | | | | | | | | |
| ◆Water injection equipment measures | | | | | 4 Arrange for air-coo air-cooled heat exchan | | ا ا | | | | L L | | |
| Secure equipment cooling substitutes to enable high-pressure coolant injection system to | | | | | | | ion of air-cooled he | t exchangers, pump | s, pipes, etc. | | Test | | |
| operate | ▼Apr. 20 Compl | eted deployment of pe | ortable power pump | | | | | 1 | | | | | |
| Secure water supply with portable power pumps | | | | | | | | | | | | | |
| Diversify water supply (increase water | | | ▼Nov | 28 Begin high groun | d forming ▼Apr. 3 | 0 Complete | | | | | | | |
| tanks) Diversify water intake sources (take water from Niino | | | | | | Se | et up water tank on hi | gh ground , install pur | nps, pipes, etc. | | Test | | |
| River) | | | | | | | Deploy wat | en intake equipment (| lydrosub) | | | | |
| Seismically reinforce make-up water system, | | | | | | | | 1 | | | | | |
| install new water injection pipes | | | | | | Seis | mic reinforcement, ad | dition of water injection | on equipment | ĺ <u>+</u> − − − − − − − − − − − − − − − − − − − | Test | | |
| ♦Heat-shedding equipment measures | | | | | | | | | | | | | |
| Enable remote operation of containment vessel vents | | | | | | Enab | le remote operation d | f y ents | | | | | |
| Set up nitrogen cylinders to operate | Apr. 20 Comp | eted deployment of n | trogen cylinders on | | | | | | | | | | |
| containment vessel vent valves | | | | | | | I | | | | | | |
| Secure spare RCWS, RCCW and RHR pumps and electric motors | spare ec | ▼July 29 Arrang uipment | e for ▼Nov. | 18 Deploy No. 5 RCV Build spa | S spare equipment are equipment at fact | ory, deploy on site | | 1 | | | | | |
| Secure underwater pumps (substitutes for RCWS | | | | | | | | 1 | | | | | |
| pumps) | | | | | | Deplo | by underwater pump | | | | | | |
| ♦Other | ▼June | 1 Completed deployi | ng heavy equipment | (bulldozers, etc.) | | | | | | | | | |
| Deploy heavy equipment (bulldozers, etc.) | | | | | | | | | | | | | |
| Set up emergency supplies warehouse on | | | ▼Nov. : | 1 Begin high ground- | forming ▼May | 31 Complete | t up emergency supp | es warehouse | | | | | |
| high ground Enhance reliability of external power supply | | | | | | | | 1 | | | | | |
| Increase No. 5 power receiving circuits (from 2 to 3 | | | | | | Increases | oower receiving circuit | s et No. 5 | | | | | |
| lines) | | | ▼Oct. 31 Be | gin | | Increase p | | | | | | | |
| Replace transmission tower support insulators | | | Replace | support insulators | | | | | | | | | |
| Set up power receiving transformers on high ground | | | | Dec. 20 Complete | ▼Apr. 25 Begin | | | | | ▼Connect to power | supply on high grou | nd | |
| | | | | | Set up powe | er receiving transform | mers on high ground | | I = = = = = = = = = = = = = = = = = = = | Connect | I Test | | |
| Set up mobile transformers | | | | | g in major supplies to prmers on high ground | | on, etc. | Dec. 2012 Deploy a Deploy a | | | Connect to power Connect Test | supply on high grou | |
| Doinforce nower reastring reaster from | | | | | | | | | | | | | |
| Reinforce power receiving routes from general on-grounds wiring | | | | | 9 Begin rce power receiving ro | outes fo <mark>r general on-</mark> | grounds wiring | ♥Usable from Jan. 2 (part connecting | | high_ground | Connect to power Connect Test | supply on high grou | |
| | | | | | | | | not yet complete) | | | | | |