April 14, 2011

Conditions of Lifeline and Infrastructure in the Affected Areas
(Mainly in Iwate, Miyagi and Fukushima Prefectures)

The Special Headquarters for Measures
to Assist the Lives of Disaster Victims

*provisional version

1. Rubble removal and temporary houses
(a) Rubble removal (Ministry of Environment)
   - The number of municipalities which have introduced temporary dump place for rubbles are as follows:
     Iwate Pref.: 12 municipalities along the coastlines (total 71 sites)
     Miyagi Pref.: 33 municipalities (total 99 sites)
     Fukushima Pref.: 21 municipalities (total 112 sites)
   - The number of municipalities which have already started transporting rubbles to temporary dump sites are as follows:
     Iwate Pref.: 12 municipalities along the coastlines
     Miyagi Pref.: 9 municipalities
     Fukushima Pref.: some municipalities such as Iwaki and Soma

(b) Temporary houses (Ministry of Land, Infrastructure, Transport and Tourism)
   - 30,000 temporary houses are to be constructed within two months, and another 30,000 will be provided in the three months thereafter.
   - Status of preparing temporary houses are as follows:
     Under construction: 8,550 (in 93 areas)
     To be constructed: 2,266 (in 36 areas)

2. Transportation (Ministry of Land, Infrastructure, Transport and Tourism)
(a) Road
   - 100% of the Highways and 99% of the national routes are already open for public use. 45 sections of national routes and 229 sections of local roads are still blocked.
   - Undergoing operations on National routes are as follows:
     - Resolve the detour through building a temporary bridge on Route 45.
     - Repair the road to resolve single-lane conditions and other restrictions.
(b) Railway
- Recovery of railway services are as follows:
  Akita/Yamagata Shinkansen: 100%
  Tohoku Shinkansen: 63%
  Local lines in the affected area: 77%
- Planned timeline for resuming railway operation are as follows:
  Tohoku Shinkansen: end of April
  Tohoku Line (local): middle of April
  Jyoban Line (local) (Ueno-Iwaki): end of April

(c) Aviation
- All of the 13 airports around the affected area are operating.
- Sendai airport is under reconstruction toward full recovery. The airport has partially resumed operation for civil airlines since April 13.

(d) Shipping and ports
- All of the 15 designated important ports in the area are partially in use. 35% of the berth of all 15 ports is available.
- Maritime infrastructure such as shipping routes and quays are under reconstruction to strengthen the capacity of transporting emergency supplies.

(e) Buses
- Highway buses are resuming operation.
- Transportation capacity by buses between Kanto and Tohoku was enhanced by 266% compared to the pre-disaster period.

3. Lifeline
(a) Food and Drink (Ministry of Agriculture, Forestry and Fisheries)
- Necessary amount of foods and drinks are delivered to shelters to meet the demand. Based on changing needs, side dishes (ex. retort curry, canned food, sweet jellied adzuki bean paste) and fruit juice are provided (including supplies for victims staying at their home).
- The distribution function in wholesale markets is improving (Function of central wholesale markets: Morioka operates normally; Sendai (fruits, vegetables and marine products) operates 80%; Fukushima’s fruit and vegetable market operates normally and marine product market operates 90%; Iwaki has restored water pipes.)
(b) Fuel (Ministry of Economy, Trade and Industry)

**[Oil refineries and tanks]**

- 3 out of 6 oil refineries/tanks in the Kanto area are restored. The restoration of the other three will be prolonged. Shiogama oil tank has recovered part of its function (5,000kl tankers can dock since March 27. Until April 13 ca. 165,000kl oil was docked.).
- Supply of oil products including gasoline in Tohoku has recovered to approximately 30,000kl per day (80% of the pre-disaster period), while daily demand before the disaster was 38,000kl.

**[SS]**

- The functioning service stations increased from 53% (March 20) to 90% (April 13). Provisional mini-SSs were built in 9 municipalities including Rikuzentakata.

(c) Electricity (Ministry of Economy, Trade and Industry / Tohoku Electric Power)

- The number of houses suffering from blackout decreased from 2,740,000 (March 11) to 160,000 (April 13) in the Tohoku three prefectures. (Iwate prefecture: ca. 29,000, Miyagi prefecture: ca. 91,000, Fukushima prefecture: ca. 35,000)
- The prospect for restoration of electricity is as follows:
  - For houses spared of damages (about 2,000 houses), electricity will be restored within a week.
  - Electricity delivery is suspended for around 15,000 houses for reasons such as absence of owners.
  - For the rest of the affected houses (about 140,000 houses), restoration schedule remains undetermined because they were located in the severely affected areas where houses were engulfed and flown away by the tsunami.

(d) Gas (Ministry of Economy, Trade and Industry)

- The number of the houses suspended of city gas supply decreased from around 420,000 (March 11) to around 40,000 (April 14). In Sendai, most gas facilities are expected to be restored by the end of April. Around 1,660,000 houses have no access to LPG (March 11). LPG supply will restart in the middle of April except for the areas where houses were flown away by the tsunami.

(e) Water supply (Ministry of Health, Labour and Welfare)

- Ca. 2,040,000 houses have recovered access to water supply. In 8 prefectures, water service is suspended (ca. 26,000 houses in Iwate, ca. 117,000 houses in Miyagi, ca. 72,000 houses in Fukushima). Water-supply corporations across the
nation are cooperating with emergency water supply by water wagons as well as the restoration of water facilities.

(f) Sewer

[Sewer] (Ministry of Land, Infrastructure, Transport and Tourism)
- In 123 out of 131 municipalities where sewage pipes were damaged, visual examinations have been completed. Emergency measures are being implemented including setting up of provisional bypass pipes to damaged parts of sewer. Among 63 affected sewage plants, 55 suffered inflow of sewage, 43 of which are mostly restored. The other 12 are treated with emergency measures.

[Community Wastewater] (Ministry of Agriculture, Forestry and Fisheries)
- In 11 prefectures, 380 regions were stricken by the disaster with the estimated loss of ca. 34.9 billion yen (April 13). Regional agricultural administration offices are conducting emergency support measures, technical consultation on restoration from disaster, emergency checks on facilities and more.

(g) Bank (Financial Services Agency)
- The banks with headquarters in 6 Tohoku prefectures and Ibaragi closed 137 branches and a number of ATMs. Some banks open temporary counters at town/village offices as replacement for the branches that are unlikely to be restored early.

(h) Post office (Ministry of Internal Affairs and Communications)
- Closed post offices reduced from 583 branches (March 14) to 112 (April 14) among the 1,103 branches in the three prefectures.
- Delivery hubs out of operation reduced from 44 (March 14) to 14 (April 14) among the 301 hubs in the three prefectures.

(i) Telephone line (Ministry of Internal Affairs and Communications)
- 410,000 NTT landlines remain out of connection as of April 14 mainly in the coastal areas. (The peak time affected lines were one million.)
- 860 cellular base-stations of four carriers remain out of service. (The peak time number was 14,800.) NTT Corporation aims to restore all telecom-related buildings and cellular base-stations (except for some regions) to the normal operational status by the end of April.

(j) TV circuit (Ministry of Internal Affairs and Communications)
- TV transmission is suspended from 5 out of 174 bases in Iwate and Miyagi
prefectures. (Four sites lost electricity and one site was damaged.) (The affected bases cover a limited number of households.)

4. Others
(a) River (Ministry of Land, Infrastructure, Transport and Tourism)
- 2,051 points of river facilities were damaged including breaches of levees. Emergency restoration work is under way to be completed by flood season for the sites that require especially urgent responses.

(b) Seacoast (Ministry of Land, Infrastructure, Transport and Tourism)
- 190 out of 300 kilometers of the sea embankments in Iwate, Miyagi, Fukushima prefectures were fully or partially destroyed. The inundated areas by the tsunami span about 508 km² in Aomori, Iwate, Miyagi, Fukushima prefectures.

(c) Fishing port (Ministry of Agriculture, Forestry and Fisheries)
- Almost all 260 fishing ports in three prefectures suffered catastrophic damage. The reported damage totaled 331.9 billion yen. Emergency construction works including rubble removal and repairing of piers are being conducted.

(d) Agricultural land (Ministry of Agriculture, Forestry and Fisheries)
- The damaged agricultural land by the tsunami is estimated to be 23,000 hectares. 4,100 sites of agricultural facilities are reported to be damaged. To prevent secondary damages, 62 emergency pumps were provided to the flooded areas to assist drainage and debris from water corridors are being removed.