News Release



October 3, 2011 Nuclear and Industrial Safety Agency

Regarding the Direction on "The Concept of Securing the Mid-Term Safety" for Units 1 to 4 at Fukushima Dai-ichi Nuclear Power Station, Tokyo Electric Power Co., Inc.

On October 3, 2011, the Nuclear and Industrial Safety Agency (NISA) presented "The Concept of Securing the Mid-Term Safety for Units 1 to 4 at Fukushima Dai-ichi Nuclear Power Station (NPS), Tokyo Electric Power Co., Inc. (TEPCO)" (hereinafter referred to as "the concept of securing the mid-term safety") to TEPCO, requesting them to conform to it. On the same day, NISA requested TEPCO to submit a report by October 17 on the safety assessment results, as well as a facility operation plan based on the basic targets of "the concept of securing the mid-term safety" for the facilities, pursuant to the provisions of Article 67, paragraph 1 of the Act on the Regulation for Nuclear Source Materials, Nuclear Fuel Materials and Reactors (Act No. 166, 1957). Upon receipt of the report, NISA will verify the safety.

- 1. At the Fukushima Dai-ichi NPS, TEPCO, efforts are now being made to settle down the accident, aiming to achieve the state where "release of radioactive materials is under control and radiation dose is being significantly held down", which is the targets for Step 2 of "Roadmap towards Restoration from the Accident of Fukushima Dai-ichi Nuclear Power Station, TEPCO".
- 2. After the target for Step 2 is achieved, a certain period of time for preparation is required for initiating the specific operation of reactor decommissioning.
- 3. Taking into account the above, NISA has decided to define basic targets and requirements for ensuring safety at the Fukushima Dai-ichi NPS, TEPCO during the preparation period (within nearly three years) until the operation is initiated for reactor decommissioning after the completion of Step 2, and request TEPCO to take deliberate actions

accordingly.

- 4. Specifically, it is required that the basic targets and requirements be conformed, which will be defined by NISA for the facilities of TEPCO, to 1) control and mitigate the release of radioactive materials, 2) properly remove the decay heat, 3) prevent criticality, and 4) prevent hydrogen explosion. Further, NISA requested TEPCO to submit a report by October 17 regarding the circulating injection cooling system, which is one of the requirements for cold shutdown as part of the targets for Step 2, and to submit reports promptly on other subjects.
- **5.** After receiving the report from TEPCO, NISA will evaluate its contents and confirm the safety, taking into account opinions obtained from the outside experts.

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September 28, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 264th Release)

(As of 14:00 September 28, 2011)

The Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa Nuclear Power Station (NPS), Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

Major updates are as follows:

- 1. Nuclear Power Stations (NPSs)
 - Fukushima Dai-ichi NPS (TEPCO)
 - · Hydrazine (approx. 2m³) was injected into the spent fuel pool of Unit 2 via the alternative cooling system of the spent fuel pool (from 10:39 to 12:22, September 28).
 - · Hydrazine (<u>approx. 2m³</u>) was injected into the spent fuel pool of Unit 4 via the alternative cooling system of the spent fuel pool (from 13:57 to <u>15:48</u>, September 27).
 - · On the second floor of the turbine building of Unit 5, while extracting the lubricant for the overhead travelling crane into a steel drum in order to inspect the crane, a TEPCO worker found a spillover from the steel drum on the floor (at around 11:05, September 27). The amount of spillover was 8L and the extraction work was finished (at around 13:00 of the same day).
 - The accumulated water in the basement of the turbine building of Unit 6 was transferred to a temporary tank (from 10:00, September 28).
 - Rubble was removed with remote-controlled heavy machinery (an amount equivalent to three containers, from 08:45 to 16:15, September 27).
 - The cesium adsorption device was suspended due to the work for the monitoring system of the water treatment facility (from 08:27 to 11:30, September 27).

<Temporary Access into Restricted Areas>

- Residents were allowed temporary access into the following cities, towns

and villages.

- 1) First round (by bus in all cases) Implemented.
- 2) Second round (by bus)Namie Town (implemented on September 28)





September 29, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 265th Release)

(As of 13:00 September 29, 2011)

The Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa Nuclear Power Station (NPS), Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

- 1. Nuclear Power Stations (NPSs)
 - Fukushima Dai-ichi NPS (TEPCO)
 - The accumulated water in the basement of the turbine building of Unit 6 was transferred to a temporary tank (from 10:00 to 16:00 on September 28, from 10:00 on September 29).
 - · Operations of opening and closing the silt fence were performed at the north side of the intake channel of Units 1 to 4, because the crushed stones ship sailed out when the blocking work was completed (from 10:45 to 11:15, September 29).
 - Rubble was removed with remote-controlled heavy machinery (not stored in containers, from 08:45 to 16:15, September 28).
 - The second cesium adsorption device was suspended in order to exchange the vessels (from 08:52, September 29).
 - For water injection into cores of Units 1 to 3, the current injection line was switched to the emergency side, due to a trial operation of the mini-flow line installed in the normal core injection line on a hill (at 10:25, September 28). After the trial operation finished, the injection line was switched back to the normal side (at 14:02 of the same day).
 - The desalination unit 2 (a reverse osmosis membrane type) was suspended because a leakage was found at a piping joint of the desalination device (a reverse osmosis membrane type) (at 10:45, September 29). Since the desalination unit 2 consists of two lines, the device was restarted up using the other line with no leakage (the amount of processing was 25m³/h) (at

11:20 of the same day). Furthermore, one line of the desalination unit 3 (a reverse osmosis membrane type) was started up (the amount of processing was $25 \text{m}^3\text{/h}$) (at 11:40 of the same day).

<Temporary Access into Restricted Areas>

- Residents were allowed temporary access into the following cities and towns.
- 1) First round (by bus in all cases) Implementd.
- 2) Second round (by private car)Okuma Town (September 29)Minami-Soma City (September 29)Naraha Town (September 29)





September 30, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 266th Release)

(As of 09:00 September 30, 2011)

The Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa Nuclear Power Station (NPS), Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

Major updates are as follows:

- 1. Nuclear Power Stations (NPSs)
 - · Fukushima Dai-ichi NPS (TEPCO)
 - · Hydrazine (approx. 2m³) was injected into the spent fuel pool of Unit 3 via the alternative cooling system for the spent fuel pool (from 13:20 to 15:10, September 29).
 - The accumulated water in the basement of the turbine building of Unit 6 was transferred to a temporary tank (from 10:00 to 16:00, September 29).
 - · Rubble (an amount equivalent to seven containers) was removed using remote-controlled heavy machinery (from 08:45 to 16:15, September 29).
 - The second cesium adsorption device was suspended in order to exchange the vessels (from 08:52 to 16:47, September 29).

<Possibility of exposure (exposure of workers and others)>

- At around 10:30 on September 29, one subcontractor worker was splashed with water remaining in a hose over the full-face mask while transferring the condensed waste water at the water treatment facility. Since the worker was obviously contaminated around the mouth, he was examined by the whole body counter. As a result, it was confirmed that no radioactive materials were taken into the body.

<Temporary Access into Restricted Areas>

- Residents were allowed temporary access into the following towns.

- 1) First round (by bus in all cases) Implemented.
- 2) Second round (by private car) Tomioka Town (September 30) Futaba Town (September 30) Namie Town (September 30)



October 3, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 267th Release)

(As of 12:00 October 3, 2011)

The Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa Nuclear Power Station (NPS), Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

- 1. Nuclear Power Stations (NPSs)
 - Fukushima Dai-ichi NPS (TEPCO)
 - Dust was sampled at the opening of the reactor building of Unit 1 (from 08:55, October 3).
 - The accumulated water in the basement of the turbine building of Unit 3 was transferred to the high temperature incinerator at the radioactive waste treatment facilities (from 09:54 September 15 to <u>09:46 September</u> 30).
 - The accumulated water in the basement of the turbine building of Unit 3 was transferred to the building of the miscellaneous solid waste volume reduction facilities (from 10:00, September 30).
 - The alternative cooling system for the spent fuel pool of Unit 3 was suspended due to the installing work of an additional panel for the working transformer (from 15:00 to 19:26, September 30).
 - The accumulated water in the condenser of Unit 3 was transferred to the turbine building (from 10:59, October 3).
 - The secondary line of the alternative cooling system for the spent fuel pool of Unit 4 was suspended due to the replacement work of the secondary line piping of the system (from 08:54, October 3).
 - The the residual heat removal system (RHR) (A) pump was shifted to the RHR (B) pump in the RHR of Unit 5 due to the repair work of the outlet valve of the seawater line pump (D), (from 11:20 to 11:34, September 30).
 - · The accumulated water in the basement of the turbine building of Unit 6

- was transferred to a temporary tank (from 10:00 to 16:00, September 30).
- The reactor was cooled using the RHR (A) pump (at 11:20, October 3) and the (C) pump of the RHR was suspended at Unit 6 due to the discharge pressure drop in the seawater line pump (C) of the RHR(at 11:21 of the same day).
- Rubble was removed with remote-controlled heavy machinery (an amount equivalent to three containers, from 08:45 to 16:15, September 30).
- · After the connection part of the hose, from which a water leakage was found, in the desalination device 2 (a reverse osmosis membrane type) was replaced, the operation of both systems was restarted (the amount of processing 50m³/h) (at 11:27, September 30).
- The cesium adsorption device was suspended because the treated water transfer pump (A) of the oil separator in the water treatment system shut off due to overload (at 14:19, September 30). The cesium adsorption device was restarted by starting the reserve pump (B) (at 17:38 of the same day). Then, a rated flow was reached (at 17:50 of the same day).
- The accumulated water was transferred from the site bunker building to the process main building (from 10:37, October 3).

Fukushima Dai-ni NPS (TEPCO)

A grease bleeding was identified at the coupling of the cooling line (B) pumps of the residual heat removal system and the electric motor in the building of the seawater heat exchanger at Unit 1 (at around 18:00, September 30). By way of precaution, the system was deliberately suspended to inspect the coupling. As a result, grease supposedly bled during the operation because it was excessively filled into the coupling. After the filling amount of grease was adjusted, the operation restarted (at 16:21 of the same day).

2. Actions taken by NISA

On September 30, based on the "Basic Approach to Reassessing Evacuation Areas" (August 9, 2011), the Nuclear Emergency Response Headquarters lifted the restriction of the Evacuation-Prepared Areas in Case of Emergency.

<Temporary Access to Restricted Areas>

- Residents were allowed temporary access in the following cities and towns:
- 1) First round (by bus in all cases)

Implemented.

2) Second round (by private car)

Okuma Town (on October 1)

Minamisoma City (on October 1)

Tomioka Town (on October 2)

Futaba Town (on October 2)

Naraha Town (on October 1)

Namie Town (on October 2)



October 4, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 268th Release)

(As of 14:00 October 4, 2011)

The Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa Nuclear Power Station (NPS), Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

- 1. Nuclear Power Stations (NPSs)
 - · Fukushima Dai-ichi NPS (TEPCO)
 - Dust was sampled at the opening of the reactor building of Unit 1 (from 08:55 to 12:05, October 3).
 - The accumulated water in the trench of the turbine building of Unit 2 was transferred to the building of the miscellaneous solid waste volume reduction facilities (from 90:51, September 13 to 13:16, October 4).
 - The secondary line of the alternative cooling system for the spent fuel pool of Unit 4 was suspended due to the replacement work of the secondary line piping of the system (from 08:54 to 15:03, October 3).
 - Fresh water (about 15.4 t) was injected into the spent fuel pool of Unit 4 via a temporary spraying facility (from 13:34 to 14:41, October 3).
 - The accumulated water in the basement of the turbine building of Unit 6 was transferred to a temporary tank (from 10:00 to 16:00, October 3).
 - The reactor was cooled using the residual heat removal system (RHR) (A) pump (at 11:20, October 3) and the (C) pump of the RHR was suspended at Unit 6 due to the discharge pressure drop in the seawater line pump (C) of the RHR(at 11:21 of the same day). According to the inspection result, nothing unusual was identified, the seawater line pump (C) in the RHR was restarted (at 11:54 of the same day), and the reactor cooling was resumed using the RHR (A) pump (at 12:44 of the same day).
 - The circulating seawater decontamination device was temporarily suspended due to maintenance (from 09:50, September 30 to 09:50, October

3).

- The accumulated water was transferred from the site bunker building to the process main building (from 10:37 to 15:37, October 3).
- · An oil leakage was found from the oil cooling unit of the system B in the transportable (on-vehicle) transformer for the Okuma Transmission Line 3 to the lower part of the vehicle (at around 15:00, October 3). As an emergency measure, efforts were made to prevent the leakage from enlarging.
- The second cesium adsorption device was suspended in order to exchange the vessels (from 08:30, October 4).
- · A single circulating operation was performed on the decontamination device in order to decontaminate the water in the waste treatment water tank (from 11:38, October 4).

· Fukushima Dai-ni NPS (TEPCO)

The RHR (B) pump was suspended in order to switch from the RHR (A) to the RHR (B) (at 10:57, October 4). Then, the RHR (B) pump was started up (at 11:18 of the same day).



October 5, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 269th Release)

(As of 14:00 October 5, 2011)

The Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa Nuclear Power Station (NPS), Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

Major updates are as follows:

1. Nuclear Power Stations (NPSs)

- · Fukushima Dai-ichi NPS (TEPCO)
- The water injection rate into the reactor of Unit 2 via the core spray line was adjusted from 6.0m³/h to 7.0m³/h (at 15:00, October 4).
- Dust was sampled at the opening of the reactor building of Unit 2 (from 09:26 to 10:26, October 5).
- Fresh water (approx. 8.6t) was injected into the spent fuel pool of Unit 2 via the cooling and clean-up system of the spent fuel pool in order to fill the skimmer surge tank with water (from 10:31 to 11:27, October 5).
- The accumulated water in the basement of the turbine building of Unit 6 was transferred to a temporary tank (from 10:00, October 5).
- The second cesium adsorption device was suspended in order to exchange the vessels (from 08:30 to 19:05, October 4).

· Fukushima Dai-ni NPS (TEPCO)

- The RHR (A) pump was suspended in order to switch from RHR (A) to RHR (B) of Unit 2 (at 10:57, October 4). Then, the RHR (B) pump was started up (at 11:18 of the same day).
- The RHR (A) was suspended in order to switch from RHR (A) to RHR (B) of Unit 4 (at 15:43, October 4). Then, the RHR (B) pump was started up (at 15:53 of the same day).
- · The following operations were performed for the emergency diesel generators (D/Gs) and RHRs due to the exchange work of power cables and

the inspection on the power distribution board:

D/G(A) and RHR (A) of Unit 2 were shifted to out-of-service(at 09:23, Oct. 5)

D/G (A) and RHR (A) of Unit 3 were shifted to out-of-service (at 09:33, Oct. 5)

D/G (A) and RHR (A) of Unit 4 were shifted to out-of-service (at 09:32, Oct. 5)



October 6, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 270th Release)

(As of 12:00 October 6, 2011)

The Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa Nuclear Power Station (NPS), Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

- 1. Nuclear Power Stations (NPSs)
 - Fukushima Dai-ichi NPS (TEPCO)
 - The water injection rate into the reactor of Unit 1 was adjusted to 3.8m³/h due to the decrease to 3.5m³/h (at 09:28, October 6).
 - The accumulated water in the basement of the turbine building of Unit 6 was transferred to a temporary tank (from 10:00 to 16:00, October 5).
 - The desalination devices 2 and 3 (a reverse osmosis membrane type) were suspended due to a bleeding from the pipe coupling part of the check valve was found at the outlet of a waste water supply pump in the desalination device (a reverse osmosis membrane type), (at 09:58, October 6).
- Fukushima Dai-ni NPS (TEPCO)
 - The following operations were performed for the emergency diesel generators (D/Gs) and RHRs due to the exchange work of power cables and the inspection on the power distribution board:
 - D/G (A) and RHR (A) of Unit 2 were shifted to out-of-service(at 09:23 to 16:27, Oct. 5)
 - D/G (A) and RHR (A) of Unit 3 were shifted to out-of-service (at 09:33 to 16:33, Oct. 5)
 - D/G (A) and RHR (A) of Unit 4 were shifted to out-of-service (at 09:32 to 16:36, Oct. 5)
 - The RHR (B) was suspended in order to switch from RHR (B) to RHR (A) of Unit 4 (at 17:01, October 5). Then, the RHR (A) pump was started up (at

17:08 of the same day).

- <Temporary Access to Restricted Areas>
- · Residents were allowed temporary access in the following cities and towns:
- 1) First round (by bus in all cases) Implemented.
- 2) Second round (by private car)Okuma Town (on October 6)Minamisoma City (on October 6)Naraha Town (on October 6)



October 7, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 271st Release)

(As of 14:00 October 7, 2011)

The Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa Nuclear Power Station (NPS), Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

Major updates are as follows:

- 1. Nuclear Power Stations (NPSs)
 - · Fukushima Dai-ichi NPS (TEPCO)
 - · Hydrazine (about 2m³) was injected into the spent fuel pool of Unit 4 via the alternative cooling system for the supent fuel pool (from 10:32 to 12:32, October 7).
 - The accumulated water in the basement of the turbine building of Unit 6 was transferred to a temporary tank (from 10:00, October 7).
 - Due to a declining tendency in the flow rate of the seawater pump (C) in the residual heat removal system (RHR) of Unit 6, the RHR (A) was suspended (at 11:55, October 7). Then, after inspecting the seawater pump (C) in the RHR and the associated systems, no abnormal conditions were identified, and the RHR (A) was restarted (at 12:41, October 7).
- Fukushima Dai-ni NPS (TEPCO)
 - The RHR (B) was suspended in order to switch from RHR (B) to RHR (A) of Unit 2 (at 11:25, October 7). Then, the RHR (A) pump was started up (at 11:42, October 7).

<Temporary Access to Restricted Areas>

- · Residents were allowed temporary access in the following towns:
- 1) First round (by bus in all cases) Implemented.

2) Second round (by private car)Tomioka Town (on October 7)Futaba Town (on October 7)Namie Town (on October 7)



October 11, 2011 Nuclear and Industrial Safety Agency

Seismic Damage Information (the 272nd Release)

(As of <u>12:00 October 11</u>, 2011)

The Nuclear and Industrial Safety Agency (NISA) confirmed the current situation of Onagawa Nuclear Power Station (NPS), Tohoku Electric Power Co. Inc.; Fukushima Dai-ichi and Fukushima Dai-ni NPSs, Tokyo Electric Power Co. Inc. (TEPCO); Tokai Dai-ni NPS, Japan Atomic Power Co. Inc. as follows:

- 1. Nuclear Power Stations (NPSs)
 - · Fukushima Dai-ichi NPS (TEPCO)
 - Dust was sampled at the hatch opening for equipment and at the truck bay door in the reactor building of Unit 1 (from 11:30 to 14:03, October 7).
 - Nitrogen was purged in the piping of the core cooling line of Unit 1, and after safety was confirmed, the piping was cut (from 17:07 to 22:30, October 9). Closing operation was performed at the cut piping (from 23:05 October 9 to 00:37 October 10).
 - The accumulated water in the condenser of Unit 3 was transferred to the turbine building (from 10:59 October 3 to 10:22 October 9).
 - The accumulated water in the basement of the turbine building of Unit 6 was transferred to a temporary tank (from 10:0 to 16:00, October 7).
 - The circulating seawater decontamination system was temporarily suspended for maintenance (from 10:03 October 8 to 09:55 October 10).
 - The decontaminated accumulated water of Units 5 and 6 was sprayed inside the plant (from 14:06 to 15:50 October 7, from 09:30 to 15:25 October 8, from 09:40 October 11).
 - · A leakage was identified in the hose connecting the RO concentrated water supply pump and the temporary storage tank for RO concentrated water (around 11:45, October 8). The RO concentrated water supply pump was suspended (around 12:00, October 8), and it was confirmed that the leakage was stopped on the site (around 12:40, October 8). Then, after the RO concentrated water supply pump was restarted and the position of leakage

was identified, the RO concentrated water supply pump was suspended (at 13:15, October 8). After switching the lines, the operation was restarted (at 14:00, October 8).

· Fukushima Dai-ni NPS (TEPCO)

- Due to switching from RHR (B) to RHR (A) of Unit 3, the RHR (B) pump was suspended (at 14:00, October 8). Then, the RHR (A) pump was started (at 14:26, October 8).

<Possibility of Radiation Exposure>

When one employee, who was engaged in grasping the situation of liquid leakage in the desalination device (a reverse osmosis membrane type), returned to the visitor hall at Fukushima Dai-ni NPS at around 16:31, October 8, and was examined for contamination, it was confirmed that the left part of the waist, the chin, and the neck were contaminated. According to the measurement result by the whole-body counter, it was evaluated that no radioactive materials were taken in the body.

<Temporary Access to Restricted Areas>

- Residents were allowed temporary access in the following cities and towns:
- 1) First round (by bus in all cases) Implemented.
- 2) Second round (by private car)

Okuma Town (implemented on October 8)

Naraha Town (implemented on October 8)

Futaba Town (implemented on October 9)

Tomioka Town (implemented on October 9)

Minamisoma City (implemented on October 8)

Namie Town (implemented on October 8)

<Instructions on Food and Drink>

Lifting of restrictions on shipment

On October 7, raw milk produced in Aizuwakamatsu City, Koori Town, Tanakura Town, Naraha Town (except the areas within a 20km radius from Fukushima Dai-ichi NPS), Hirono Town, Nishiaizu Town, Aizubange Town, Yanaizu town, Kaneyama Town, Tadami Town, Kitashiobara Village, Yukawa Village, Tenei Village, Showa Village, Hinoemata Village, and Tamagawa Village.