

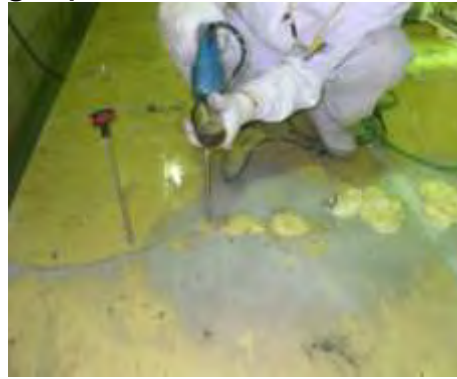
# Status of LINAC Facility in July-1

## Restoration Work of Building

After evaluating damages (e.g., crack width) in concrete-bases for roof-poles in Klystron gallery, the restoration plan has been made (Right photo).



Restoration work of the crane with using a special construction machine for high-position work.



Repairing water leaks in the tunnel is going smoothly.

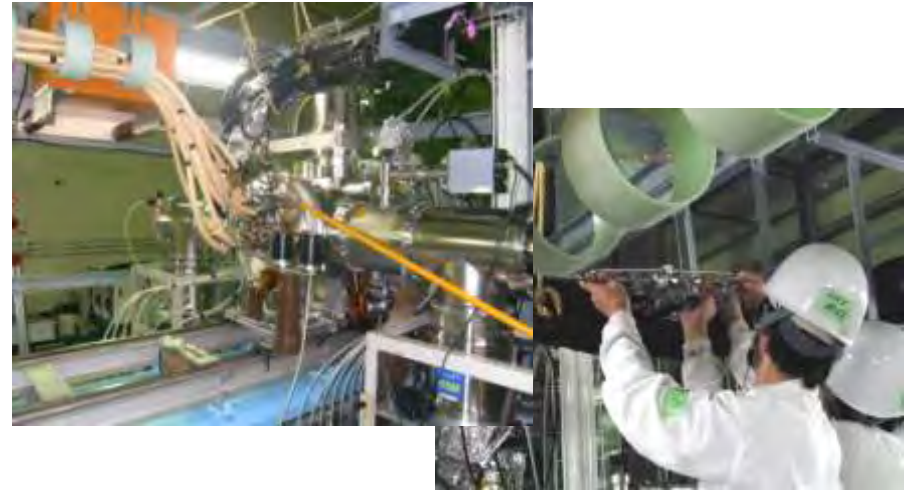
Investigating the plumbing for outside fire hydrants, and replacing damaged pipes.

# Status of LINAC Facility in July-2

## Restoration work of Equipment and Instruments

### Ion Source

- Realignment is not necessary. This is also confirmed through the calculation of RFQ beam.
- Installation of the plasma production room, and wiring and plumbing work have been conducted.



### Vacuum Chambers

- Realignment of the chambers of DTL and SDTL is continued.
- Misalignment of each axis of three chambers of DTL appeared to be within 0.1 mm.



### Cooling Facility, etc.

- Restoration work of the plumbing and pumping system is continued.
- CRYO pumps were removed and inspected.



# Status of 3 GeV Synchrotron (RCS) Facility in July-1

Restoring the power source yard and the building has a first priority.

- Stages for the equipment to receive high voltage power were jacked up to maintain their level.
- After confirming its soundness, continuous current tests have started.



- Restoration work of outside plumbing was completed.



# Status of 3 GeV Synchrotron (RCS) Facility in July-2

Primarily restoration work of the condenser and transformer has been conducted.



Placing concrete blocks to maintain height of the condenser.



The tilted condenser was straightened.

# Status of 50 GeV Synchrotron (MR) Facility in July

- Water Leakages in Tunnels

Leakages in ceiling and walls of the main tunnel were fixed. And then, repairing work of the floor and 3-50BT and sub- tunnels has started.

- Leveling of the Main Tunnel

Leveling of reference points of the tunnel is conducted by two teams through the middle of August. Magnets will be aligned after that.

- Revamping Work of Equipment

Revamping work of equipment, including improvement of shielding around the ring collimator area, has started. The lower photos show the work for removing beam pipes.



# Status of Material & Life Science Facility (MLF) in July-1

## Restoration work of Building

Restoration work of plumbing was conducted. Water supplying system has been restored.

Repairing floors and walls of 3NBT building and a tunnel are in progress.



All pipes mounted on walls were removed prior to restoration work.



Floor in a tunnel has been repaired.



Replacing pipes for water and compressed air.



Damaged wall boards were replaced.

# Status of Material & Life Science Facility (MLF) in July-2

## Restoration work of Equipment and Instruments

- Realignment of shielding materials has been continued with using a connection plate appropriately.



- Neutron experimental instrument was removed for restoring an attached building at the west side.



Super mirror was broken.



Before removing a spectrometer.



After removing a spectrometer.

- A guide pipe was damaged at attached part of an additional building, and replacement parts have been already ordered.

# Status of Hadron Facility in July

## Restoration work of Building

- Damages around the buildings have been restored.
- Restoration work of beams and walls in the experimental hall goes smoothly.



South Side of the 2nd Machine Bldg.



North Side Entrance

## Restoration work of Equipment and Instruments

- Switch Yard  
Leveling and lining are in progress. After beam level from 50GeV synchrotron is fixed, the level of slope part will be adjusted to the beam.
- Hadron Hall  
Inner electrodes of the 1<sup>st</sup> separator of K1.8 were investigated for confirming their leveling and spacing, and were placed in a correct position. The next step is to test them under an operating condition.



Inside of the Experimental Hall



# Status of Neutrino Facility in July

## Restoration work of Building

- Ground/road conditions around the target station have been almost restored.
- Crane at a bring-in entrance has got back in operation. No damages were found in shielding blocks and gaskets.

## Restoration work of Equipment and Instruments

- Preparing for the realignment of normal conductivity magnets. The beam-monitor and – pipes were removed.
- Regular maintenance and inspection of the cooling system of the superconducting magnets have been also conducted.
- Rehearsal for moving the 3<sup>rd</sup> horn for its inspection has been conducted.
- The 1<sup>st</sup> and 2<sup>nd</sup> horns will be tested for their normality under an operating condition in the near future.



Current Status around the Target Station



Crane at Bring-In Entrance