

## Table 1: North Korean Disablement Actions

In November 2007, the six-party talks on North Korea's denuclearization agreed that North Korea would implement 11 steps to disable the key facilities at its Yongbyon nuclear complex in return for economic and political incentives. These steps were aimed at preventing North Korea from operating these facilities for at least a year. The disablement work has been carried out since the end of 2007 by North Korean technicians with material assistance and supervision by U.S. agencies. North Korea slowed this disablement work in early 2008 due to a dispute over economic assistance and began to take steps in mid-August toward reconstituting the facilities.

Disablement Action*	Facility	Status	Note
Discharge spent fuel in reactor pond	5-megawatt reactor	Halted in progress	About 4,700 of 8,000 spent fuel rods have been discharged. North Korea halted this operation in mid-August.
Remove control rod drive mechanisms	5-megawatt reactor	Incomplete	This step can only be carried out once all fuel rods have been removed from the reactor core.
Sever cooling loop and cooling tower interior structure	5-megawatt reactor	Complete	In addition to this action, North Korea agreed to demolish the entire cooling tower. The demolition took place June 26.
Remove drive mechanisms for fuel cask transfers	Reprocessing facility	Complete	Prevents loading of spent fuel into hot cells for reprocessing.
Remove receiving cell door mechanism and overhead crane	Reprocessing facility	Complete	
Sever process equipment steam line valves	Reprocessing facility	Complete	
Remove mechanism for fuel shearing/ decladding	Reprocessing facility	Complete	Prevents spent fuel from being prepared for reprocessing.
Remove uranium fuel rod casting furnaces and machine equipment	Fuel fabrication plant	Complete	Prevents the shaping of fuel rods for use in a nuclear reactor.
Remove uranium metal reduction furnaces	Fuel fabrication plant	Complete	Prevents the production of uranium metal from a uranium compound.
Remove ore concentrate dissolver tanks and empty process tanks/ pipes	Fuel fabrication plant	Complete	Prevents the treatment of uranium ore to remove impurities.
Disablement of fresh fuel	Fuel fabrication plant	Process unresolved	While the United States indicated it wants to bend the fuel rods, Pyongyang has not agreed on what action to take. North Korea maintains less than a quarter of a full reactor load of prepared fresh fuel rods for the 5 megawatt reactor.

\* In addition to these 11 disablement steps, the six parties agreed that a lack of maintenance would also be part of the disablement process for all of the facilities, thereby further forestalling their early reoperation.

Source: Department of State, *Report on Verification Measures Related to North Korea's Nuclear Programs* (2008).