



परमाणु
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भारत सरकार

GOVERNMENT OF INDIA

Atomic
Energy
Regulatory
Board



अध्यक्ष
CHAIRMAN

No. CH/AERB/459/RAPP-7&8/199(a)/2015/816

March 5, 2015

Sub: Clearance for Erection of Major Equipment at Rajasthan Atomic Power Project-7, 8

- Ref:
1. CH/AERB/450/RAPP-7&8/2010/2198 dtd. May 24, 2010.
 2. CH/AERB/460/RAPP7&8/2010/3256 dtd. August 18, 2010.
 3. CH/AERB/NPSD/RAPP-7&8/199(a)/2011/2778 dtd. July 16, 2011.
 4. NPCIL /Engg/RI/00011/M/2014/26 dtd. May 09, 2014
 5. AERB/NPSD/463/2015/53 dtd. January 2, 2015
 6. AERB/CN/SSSED/3307102/2015/133 dtd. January 8, 2015
 7. AERB/NPSD/309/RAPP-7&8/2015/119, dtd. January 8, 2015
 8. AERB/SSSED/337102/2015/593, dtd. February 19, 2015
 9. AERB/IPSD/AKP/RAPP7&8/2015/, dtd. Feb. 6, 2015
 10. AERB/199(a)/ACPSR (PHWR)/2015/629, dtd. February 25, 2015

Siting consent for locating 2x700 MWe PHWR based NPPs at Rawatbhata, Rajasthan (RAPP-7&8) was granted by AERB on May 24, 2010 (Ref.1). Subsequently, Clearance for Site Excavation for the project was granted on August 18, 2010 (Ref. 2). Later, Clearance for First Pour of Concrete was granted on July 16, 2011 (Ref. 3). These clearances were given after multi-tier reviews as per AERB Safety Guide on Consenting Process for Nuclear Power Plants & Research Reactors (AERB/NPP&RR/SG/G-1) requirements.

NPCIL submitted an application seeking Clearance for Erection of Major Equipment (MEE) at RAPP-7&8 on May 09, 2014 (Ref. 4).

The reviews by PDSC (KAPP-3, 4 & RAPP-7, 8), CESC, IPSD and CRSANF have been completed as per AERB/NPP&RR/SG/G-1 requirements for Erection of Major Equipment clearance stage. PDSC (KAPP-3, 4 & RAPP-7, 8) submitted its review and recommendation report (Ref. 5) on January 2, 2015 which also includes the Industrial and Fire Safety related stipulations by IPSD-AERB for the subject clearance stage. Civil Engineering Safety Committee (CESC) submitted their review & recommendation report (Ref.6). Committee for Review of Security aspects of Nuclear Facilities (CRSANF) also submitted their review and recommendation report on January 8, 2015 (Ref.7).

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The review and recommendation reports of PDSC, CESC, IPSD and CRSANF (Ref. 5, 6, 7) along with NPCIL application seeking Clearance for MEE for RAPP-7,8 (Ref. 4) and related NPCIL responses/ submissions were discussed by ACPSR-PHWR in its 83rd meeting held on January 12, 2015 for the subject clearance stage wherein issues were identified for further review by CESC and IPSD. Accordingly, CESC and IPSD carried out the review and issued their reports (Ref.8 & 9).

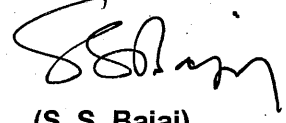
In view of the above, ACPSR-PHWR issued its review and recommendation report (Ref. 10) towards granting Clearance for Erection of Major Equipment at RAPP-7&8.

The Atomic Energy Regulatory Board, in its 114th meeting held on March 4, 2015, considered the application from NPCIL along with review and recommendation report by ACPSR-PHWR (Ref.10) and decided to grant Clearance for Erection of Major Equipment for RAPP-7&8, subject to compliance with stipulations recommended by ACPSR.

Based on the above, Clearance for Erection of Major Equipment at Rajasthan Atomic Power Project Units-7&8 is hereby granted subject to compliance with stipulations as brought out in the Annexure.

This Clearance is valid up to March 31, 2017.

Encl: Ref. 5 to 10



(S. S. Bajaj)

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Copy to:

AERB

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Secretary, AERB
Director, NPSD
Director, SSED
Director, IPSD
Director, OPSD

Chairman & Member-Secretary, ACPSR(PHWR/PFBR)
Chairman & Member-Secretary, PDSC(KAPP-3,4 & RAPP-7,8)
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Chairman & Member-Secretary, CRSANF

NPCIL-HQ

Director (Technical)
Director (Projects)
ED (Procurement)
ED (Engineering)
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ED (QA)

RAPP Site

Site Director, Rawatbhata site
Project Director, RAPP-7&8
Station Director, RAPS-1&2, 3&4, 5&6

Annexure to No. CH/AERB/459/RAPP-7&8/199(a)/2015/816 dt. March 5, 2015

AERB Stipulations for Erection of Major Equipment at RAPP-7&8

- 1) End Shield grout qualification mock-ups shall be completed and reviewed by CESC before undertaking grouting of End Shields. Proper QA and supervision shall be ensured while undertaking the actual grouting of the End Shields.
- 2) Erection of equipment on grade slabs on back-filled areas shall commence only after satisfactory review of corresponding FRS by CESC and seismic qualification of the equipment thereof with approved FRS.
- 3) Recommended actions with respect to the Construction Joints between beam & column shall be followed.
- 4) R&D activities related to FOAK systems and its review shall be satisfactorily completed to ensure timely inputs into the NPP design, construction, erection and commissioning. Plan for testing, surveillance, PSI and ISI requirements shall be submitted for FOAK systems.
- 5) Comprehensive document on Radiological Impact Assessment (RIA) based on guidelines finalised by AERB Task Force and approved by AERB shall be submitted by NPCIL to demonstrate compliance with the radiological dose criteria specified in the revised Siting Code.
- 6) All the post-Fukushima measures for the project, shall be implemented and commissioned along with other plant systems.
- 7) Availability of design documents including reports on structural analysis of supports of all identified major equipment prior to their erection at site shall be ensured.
- 8) NPCIL shall improve its overall QA system in order to achieve sound construction of a NPP as per design intent and for timely detection of lapses, if any. All safety significant observations shall be proactively reported to AERB as per Event / Change Reporting Procedure (ECRP).
- 9) Utmost importance shall be given to Industrial & Fire Safety aspects for all activities at the RAPP-7,8 Site.
- 10) NPCIL shall ensure compliance with all recommendations of PDSC (KAPP-3,4 & RAPP-7,8) & IPSD (Ref.5 & 9), CESC (Ref.6 & 8), CRSANF (Ref. 7) and ACPSR-PHWRs (Ref. 10), as per the schedule indicated therein.
- 11) NPCIL shall comply with all the statutory requirements for the RAPP-7,8 Project.

Serb