Completion of Coolant Channel installation at KAPP-4 on 8th May 2018

Kakrapar Atomic Power Project 3&4, India's first indigenously designed 700 MWe Pressurized Heavy water Nuclear Power Reactor has successfully achieved milestone of "Coolant Channel Installation Work Completion" of KAPP-4 on 08th May 2018.

In 700MWe Indian PHWR, there are 392 coolant channels. The coolant channel installation activity consists of Pre-assembly of end fittings (Shrink fitting of CS ring, Liner tube rolling, and Split sleeve installation with Journal ring and Retainer rings), Coolant tube trimming to the required dimension, Shrink fitting and rolling of one end of the Pressure Tube (PT) with End Fitting (EF) outside RB, Installation of the one end rolled EF-PT assembly from south side, Shrink fitting and rolling of second end of PT with EF from north side, Bellow lip welding, Air hold test of individual coolant channel assembly and Installation of positioning assembly.

The coolant channel installation activity of KAPP-4 commenced on 28th December 2017.

As this is a critical activity of Reactor core, the installation requirements are very stringent. To fulfill and achieve the intended installation requirements and stipulations of AERB, Procedures have been prepared and reviewed by all the concerned agencies at site as well as at HQ. To ensure the effective implementation of procedures, Hold point, checklist, route card etc. a **three stage** inspection check of every activity was effectively implemented and each activity immediately documented after its completion. Also, all the safety procedure/requirements were adhered strictly, resulting in completion of entire rolling activities in very successful manner.

The whole activity of coolant channel installation of KAPP-4 is completed in all respect on **08th May 2018.** With this KAPP#3&4 has successfully completed coolant channel installation work in both units of the project.

08/05/18

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8/5/2018

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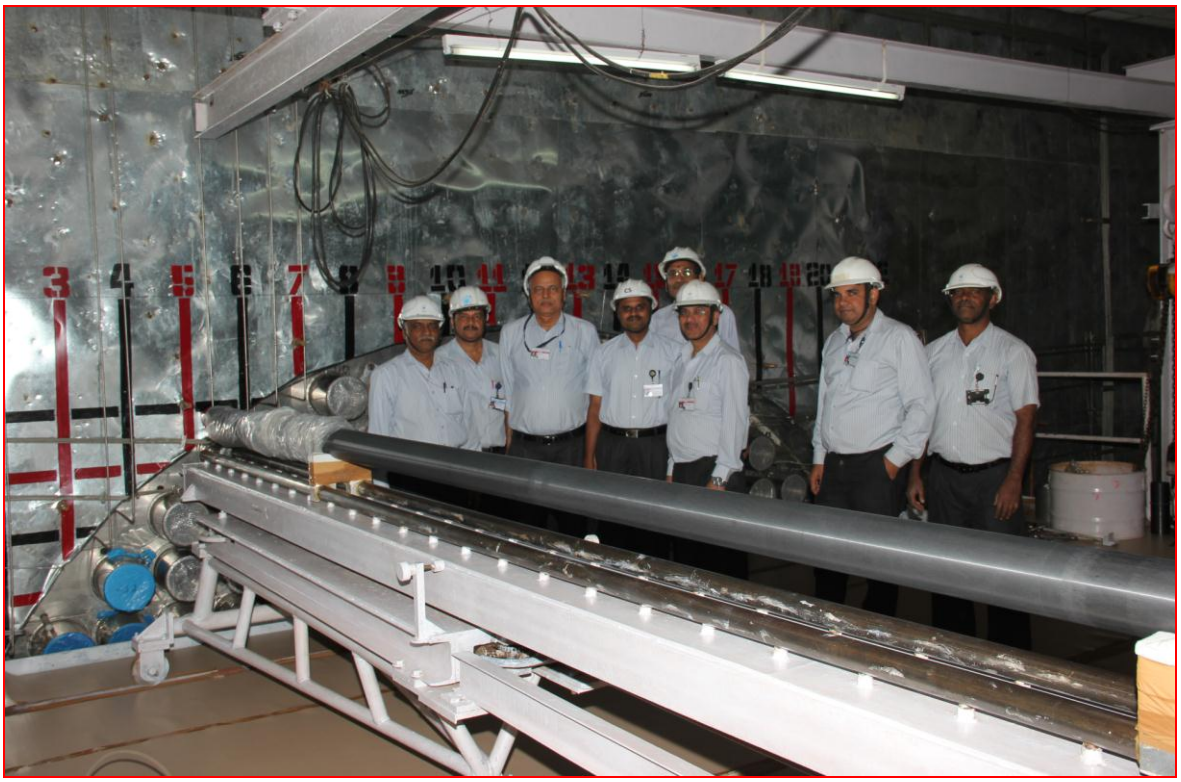

KAPP-4 Coolant Channel Installation started

Unit#4 Coolant channel rolling work

Unit#4 coolant tube installation

Unit#4 coolant tube installation

Unit#4 coolant tube installation

Unit#4 coolant tube rolling completed