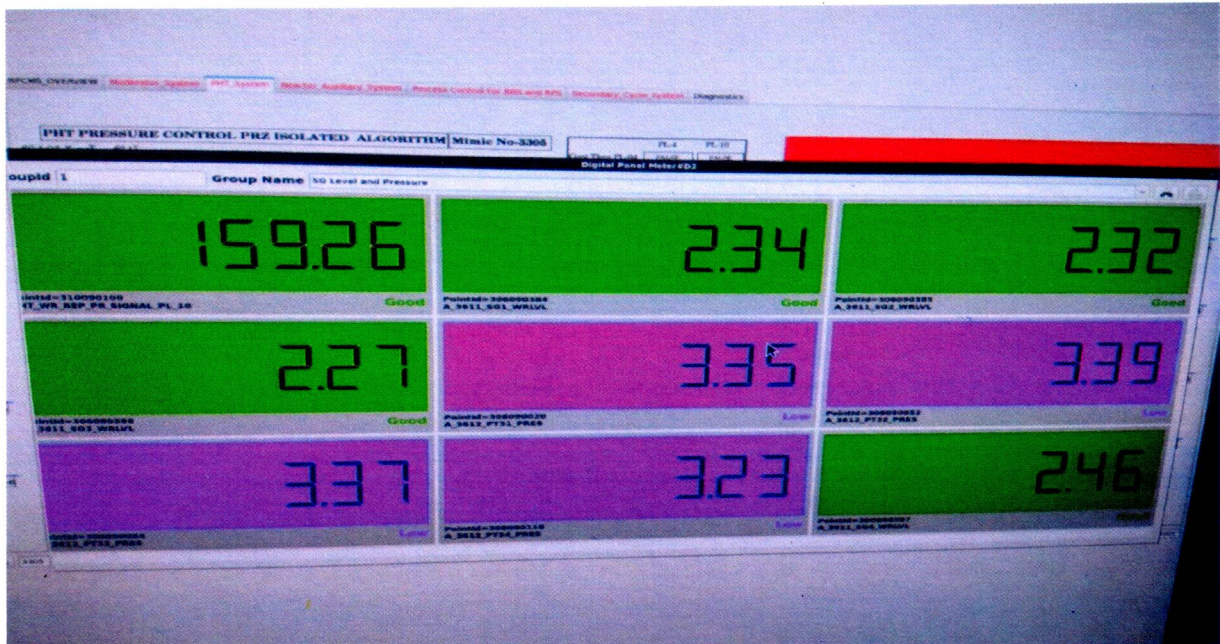


## Primary Heat Transfer system integrated Hydro Test.

KAPP-3 Primary Heat Transfer (PHT) system integrated Hydro Test was successfully performed on 26/02/2019 at 03:30 hrs. The specification calls for pressurizing the system to 159.2 kg/cm<sup>2</sup>, i.e. 1.25 times the design pressure which was achieved by operating the FM supply pump. The whole system needs to be heated prior to increasing the pressure which was done by commissioning an Auxiliary steam boiler. The system pressure was raised in steps holding at each stage for leak check operations and at the end hydro test pressure was reached. Followed by hydro test the system pressure was brought down to 126 kg/cm<sup>2</sup> and thorough leak search of system was carried out.

Prior to the above operations the air hold and Helium leak test at specified pressure were carried out and system filling with DM water was done. The whole PHT system was segmented in to several loops and subjected to open and close loop flushing with the separate flushing arrangement of drawing water from main condensate storage tank through ECCS pumps. All the support systems required like Active Process water system, Annulus Gas system, the equipment & valves of PHT system etc. were commissioned in parallel and load test run of all the shut-down cooling pumps were carried out.

The total time taken for PHT system filling, flushing, shutdown loop commissioning, rejoining of ECCS lines and hydro test of PHT took 26 days, 07 hrs and 50 minutes against the scheduled time of 41 days.



*Ranjay Sharan*  
26.2.19  
(R. Sharan)  
Project Director

*M. Venkatachalam* 26/2/2019  
(M. Venkatachalam)  
Station Director