



Implementing an Aging Management Programme for the TRIGA Research Reactor



I completed a two-month fellowship training programme at the Nuclear Engineering Teaching Laboratory (NETL) in the University of Texas at Austin.

During my fellowship, I worked with the reactor operation team engaging in practical operation of the reactor and some experiments. I learned how to operate the reactor in the Nuclear Engineering Teaching Laboratory (NETL), which is a 1.1 MW TRIGA reactor with a digital control panel. I practiced operating the reactor several times in the presence of the reactor supervisor and licensed operators.

I also familiarized myself with the operation and utilization of different experimental and irradiation facilities, including a Lazy Susan, pneumatic sample transfer system, beam ports, etc. I also observed the reactor's primary and secondary water systems as well as the online purification system and the routine maintenance and repair of said systems.

Additionally, I learned fuel & control rod inspection procedure, maintenance of control rod drive mechanisms, fuel temperature channel calibration, nuclear channel calibration, fuel burn up calculation procedure, and so on. I also learned how to transfer spent fuel from the reactor core to a spent fuel pit.

I also attended the annual conference for National Organization of Test, Research, and Training Reactors (TRTR) from August 3-8, 2014 in Portland, Oregon.

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