

Generator Stator (the heaviest equipment) erection at KAPP-4 on 30-11-2017

KAPP#4 Generator Stator, the heaviest single component of the 700 MWe project, weighing **336 MT** has been erected on **30-11-2017** successfully at Turbine Generator deck in Turbine Building#4. Generator Stator is 9.8 M long with 4 M diameter of apparent power 842.9 MVA, active power 716.5 MWe with two poles and 21 kV rated generating voltage.

Subsequent to handing over of Generator foundation by civil contractor, detailed foundation inspection and checking of embedded parts were carried out. All the embedded parts, sleeve holes and sheer lug pockets of generator foundations were checked dimensionally and corrections applied to achieve the required tolerances. The foundation items like sole plates, foundation plates, erection pedestals and stator base were blue matched as per approved procedure & drawing requirements. Grouting of sole plates and erection of pedestals were done to receive and rest the Stator body.

Detailed Erection methodology & procedure has been developed jointly by site execution team of NPCIL and M/s BHEL. The LR-11350 crawler crane was configured to make it capable of handling such heavy equipment with required lifting radius and load of Generator Stator. In this new configuration the crane was load tested for 408 MT on 18-11-2017 before actual handling.

Prior to lifting of Generator stator, hydrogen cooler housing frame (weighing 22 MT), which was supplied separately was assembled with stator for ease of assembly and erection. Terminal box, another component, supplied separately was inserted inside the foundation cavity for ease of erection of the stator.

The stator was erected at EL 118 M in Turbine Building between grid 8 &10 on TG deck.



Generator Stator Erection in TB-4





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Generator Stator Placement in TG#4 deck at EL 118 M

