

Table 1.4.2-2
 NRX Mk I Fuel Specification and Design Characteristics of Fuel Assemblies
 Permitted in the TN-LC-NRUX Basket

Parameter	Value
Physical and Material Description	
Number of Assemblies	≤ 26
Number of rods/assembly	7
Assembly length (inch) ⁽¹⁾	≤ 116
Nominal Assembly mass (g)	5780
Fuel form	U-Al
²³⁵ U per rod (g)	≤ 75.2
Enrichment (wt. % ²³⁵ U)	≤ 93
Cladding and Spacer Material	Al
Thermal and Radiological Parameters	
Cooling Time (years) ⁽²⁾	≥ 10
Depletion (wt. % ²³⁵ U) ⁽³⁾	≤ 80
Decay Heat per Assembly (watts) ⁽⁴⁾	≤ 15

Notes:

1. Maximum Length of the fuel assembly (unirradiated) for shipment.
2. The cooling time of the fuel assembly rounded down to 0.5 years.
3. The depletion (or burnup) of the fuel assembly rounded up to 0.5%.
4. The decay heat of the fuel assembly is less than 15 watts at the maximum burnup and minimum cooling time.