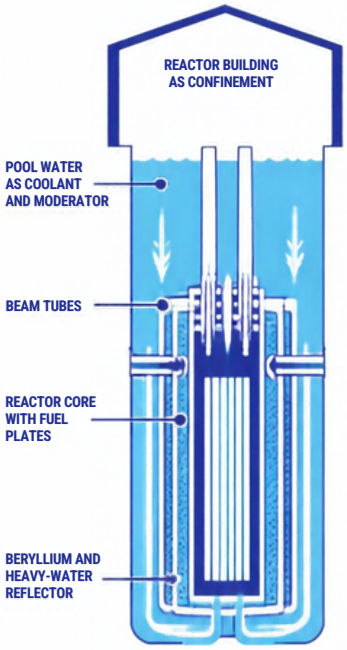
REPUBLIC OF KENYA

NuPEA
NUCLEAR POWER & ENERGY AGENCY

Specs at a glance:Proposed Kenya Nuclear Research Reactor

OPEN-POOL RESEARCH REACTOR (CUTAWAY VIEW)



WHEN RUNNING:
Forced downward flow of coolant through the core and back up around the outside.

AFTER SHUTDOWN:
Natural convection circulates heat upward for safe cooling.

KEY SPECS

Reactor type:
Open pool

Thermal power:
About 10 MWh

Fuel:
Plate-type low-enriched uranium fuel

Enrichment:
U-235, under the 20% limit

Coolant & moderator:
Light-water coolant and moderator

Coolant flow:
Forced downward flow when running; natural convection after shutdown

Fuel cycle:
28-day fuel cycle

Operating time:
About 200 operating days a year

Design life:
40-year design life with provision for extension

Site facilities:
radiosotope production, NAA laboratory, radiactive waste treatment, cooling tower

Proposed site:
Konza Technopolis (candidate, studies ongoing)

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