Review: NUCL 402 Exam 2

# Lecture 15

Fuel Properties and materials, THERMAL CONDUCTIVITIES IMPORTANT (between 8 and 2)

Materials

TRISO Fuel

# Lecture 16

GNEP

Fuel Cycle

Gaseous Diffusion

SEPARATION FACTOR (Gas centrifuge)

# Lecture 17

SLIDE 9, 150 days things go away!!!

# Lecture 18

Waste from Mines->fuel

Ways to handle in plant

Technologies (disposing in dry underground locations)

# Lecture 19

Thermal Design Limits

DNBR, Departure from Nucleate Boiling Ratio!!!!!!!!

CHF, also MCPR, Minimum Critical Power Ratio!!!!!!!!!!!

# Lecture 20

Decay Heat, Empirical Eq

SLIDE 20-2 CALCULATE 32 pJ

REACTION RATE as function of ENERGY

# Lecture 21

Heat Production

# Lecture 22

Gap conductance model

CALCULATION USING GAS GAP

# Lecture 23

Example

# Lecture 24

nothing

# Lecture 25

definitions

efficiencies

overall thermodynamic efficiencies

know thermodynamic cycles