

Nuclear Training Course 427
TIMS Ref. 42007

Nuclear Theory

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NUCLEAR TRAINING DEPARTMENT

COURSE 427

NUCLEAR THEORY

FOR ONTARIO HYDRO USE ONLY

Nuclear Training Course

COURSE 427

4	-	Level
2	-	Science Fundamentals
7	-	NUCLEAR THEORY

INDEX

427.00-0	Objectives
427.00-1	Atomic Structures
427.00-2	Radioactivity
427.00-3	Nuclear Stability and Instability
427.00-4	Activity
427.00-5	Neutrons and Neutron Interactions
427.00-6	Fission
427.00-7	Fuel, Moderator, and Reactor Arrangement

(Mechanical Maintainers do not require the following modules.)

427.00-8	Neutron Life Cycle
427.00-9	Criticality and Neutron Multiplication
427.00-10	Changes in Reactor Power with Time
427.00-11	Xenon: A Fission Product Poison
427.00-12	Reactivity Effects Due to Temperature Changes
427.00-13	Neutron Flux Control