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Materials Management in an Internationally Safeguarded Fuels Reprocessing Plant

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GLOSSARY

AGNS	Allied-General Nuclear Services
BCF	Bonded Crucial Facility
BNFP	Barnwell Nuclear Fuels Plant
CPIT	cleanout physical-inventory taking
CPP	codecontamination-partitioning process
Cusum	cumulative summation
DECANAL	decision analysis computer code
DIQ	Design Information Questionnaire
DOE	Department of Energy
DPIT	draindown physical-inventory taking
FAP	false-alarm probability
FBR	fast breeder reactor
GESMO	Generic Environmental Statement for Mixed Oxide Fuels
HAF	high-activity feed
HAW	high-activity waste
HCLA	hot and cold laboratory area
HEU	high-enriched uranium
HNO_3	nitric acid
IAEA	International Atomic Energy Agency
INFCE	International Nuclear Fuel Cycle Evaluation
IWG-RPS	International Working Group on Reprocessing Plant Safeguards
JAERI	Japan Atomic Energy Research Institute
KMP	key measurement point
LASL	Los Alamos Scientific Laboratory
LWR	light-water reactor
MBA	materials balance area
MEASIM	measurement simulation computer code
MMAS	materials measurement and accounting system
MOX	mixed oxide
MTHM/yr	metric tonne heavy metal per year
MUF	material unaccounted for
MWd/MTHM	megawatt days per metric tonne heavy metal fuel
NDA	nondestructive assay
NM	nuclear material
NPT	Non-Proliferation Treaty (1968)
NRC	Nuclear Regulatory Commission
PIT	physical inventory taking
PMS	process monitoring system
PPC	plutonium product cell
PPP	plutonium purification process
PPS	physical protection system
RBIT	running book inventory taking
RPIT	rapid physical inventory taking
SAC	sample and analytical cell
SCS	safeguards computer system
SCU	safeguards coordination unit
SLA	Sandia Laboratories, Albuquerque

SMBT	smoothed materials balance test
S/R	shipper/receiver
SRL	Savannah River Laboratory
SRP	Savannah River Plant
SVT	sequential variance test
UDT	uniform diversion test
UPAA	unit process accounting areas

Purex Process Identifiers

Contactors

A	extraction-scrub for U-Pu or Pu alone
B	U-Pu partition or Pu strip
C	U-Pu strip
D	extraction-scrub for Pu alone
H	preparation columns or streams

Stream

A	aqueous
F	feed
IS	intermediate scrub
O	organic
P	product containing Pu or Pu + U
R	raffinate (no appreciable U or Pu)
S	scrub
U	product containing only U
W	waste (no appreciable U or Pu)
X	extractant