Study of gas generation in drum L/ILW packages using hermetic containers

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Every kind of release must be monitored and controlled during the operation of the NPP

EXPERIMENTAL

P-T monitoring
Gas components
δ13C measurements
14C measurements
3H measurements
He measurements

on-line DMS
OmniStar QMS
Delta XP MS
GPC (ATOMKI)
TRI-CARB LSC
VG 5400 MS

RESULTS OF THE 2 YEAR STORAGE

P normalized for T (mbar)
Gas production rate (L/day)
δ13C vs PDB (%)
14C act. conc. (Bq/L gas)
3H act. conc. (Bq/L gas)
He conc. (ppm) δ3He vs air (%)