Figure 1 – CANDU Fuel Bundle

FUEL BUNDLE DIMENSIONS :-
OUTSIDE DIAMETER = 100mm
LENGTH = 495mm

FUEL BUNDLE WEIGHT = 24.57 Kg

1 Zircaloy Bearing Pad
2 Zircaloy Fuel Cladding
3 Zircaloy End Support
4 Uranium Dioxide
5 Can Ub Graphite Interlayer
6 Interelement Spacer
7 Zircaloy End Cap
Figure 2 – Fuel Basket

FUEL BASKET WEIGHTS:–
EMPTY = 450 Kg
FULLY LOADED = 1924 Kg
(60 FUEL BUNDLES)
Figure 3
Hydro-Québec Site - Plan
Figure 4. Gentilly Site Looking North.
Figure 5. Gentilly Site Looking East.
FIGURE 6
VAULTS
CURRENT STORAGE FACILITY – PLAN
HYDRO QUÉBEC – GENTILLY

FOR SECTION SEE FIGURE 8
USED FUEL INVENTORY
AT HYDRO-QUÉBEC GENTILLY
REACTOR SITE :

2,214 G2 BASKETS = 222 VAULT TUBES
85 G1 BASKETS = 9 VAULT TUBES

12 VAULTS REQUIRED

231 LOADED VAULT TUBES
9 SPARE VAULT TUBES

FOR SECTION SEE FIGURE 8

FIGURE 7
VAULTS – TOTAL INVENTORY
RES STORAGE FACILITY – PLAN
HYDRO QUÉBEC – GENTILLY
USED FUEL INVENTORY
AT HYDRO-QUÉBEC GENTILLY
REACTOR SITE :

2,214 G2 BASKETS = 222 SMV TUBES
85 G1 BASKETS = 9 SMV TUBES

231 LOADED SMV TUBES
9 SPARE SMV TUBES

FOR SECTIONS SEE FIG. 10

FIGURE 9
SURFACE MODULAR VAULT
STORAGE COMPLEX - PLAN
HYDRO-QUÉBEC GENTILLY REACTOR SITE
FIGURE 10
SURFACE MODULAR VAULT
STORAGE COMPLEX - SECTIONS
HYDRO–QUÉBEC GENTILLY REACTOR SITE
USED FUEL INVENTORY AT HYDRO–QUÉBEC GENTILLY REACTOR SITE:

2,214 G2 BASKETS = 222 VAULT TUBES
85 G1 BASKETS = 9 VAULT TUBES

12 VAULTS REQUIRED

231 LOADED VAULT TUBES
9 SPARE VAULT TUBES

FOR SECTIONS SEE FIG. 12

FIGURE 11
VAULTS IN A SHALLOW TRENCH STORAGE CHAMBERS – PLAN
HYDRO–QUÉBEC GENTILLY REACTOR SITE