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 Canúb Graphite Interlayer
6 Interelement Spacer
7 Zircaloy End Cap
Figure 2 – Fuel Basket

FUEL BASKET DIMENSIONS:
OUTSIDE DIAMETER = 1070mm
HEIGHT = 560mm

FUEL BASKET WEIGHTS:
EMPTY = 450 Kg
FULLY LOADED = 1924 Kg
(60 FUEL BUNDLES)
Figure 3. Current Silo Array Aerial View.
Figure 4. Current Silo Array.
USED FUEL INVENTORY
AT NBP POINT LEPREAU
REACTOR SITE :-

1,992 BASKETS = 222 SILOS
FOR SECTION SEE FIGURE 7

FIGURE 6
SILOS – TOTAL INVENTORY
RES STORAGE FACILITY – PLAN
N.B.P. – POINT LEPREAU
USED FUEL INVENTORY
AT NBP POINT LEPREAU
REACTOR SITE:

1,992 BASKETS

SPACE REQUIRED FOR 200 STORAGE TUBES
STORAGE SPACE AVAILABLE FOR 220 TUBES
20 SPARE TUBES

FOR SECTIONS SEE FIG. 8

FIGURE 8
SURFACE MODULAR VAULT
STORAGE COMPLEX - PLAN
NBP POINT LEPREAU REACTOR SITE
FIGURE 9
SURFACE MODULAR VAULT
STORAGE COMPLEX - SECTIONS
NBP POINT LEPREAU REACTOR SITE
USED FUEL INVENTORY
AT NBP POINT LEPREAU SITE:
1,992 BASKETS

10 VAULTS REQUIRED
(200 BASKETS PER VAULT)

STORAGE SPACE AVAILABLE FOR A FURTHER 8 BASKETS

FOR SECTIONS SEE FIG. 11

FIGURE 10
VAULTS IN A SHALLOW TRENCH
STORAGE CHAMBERS — PLAN
NBP POINT LEPREAU REACTOR SITE
SECTION A--A
FROM FIGURE 10

SECTION B--B
FROM FIGURE 4.3

FIGURE 11
VAULTS IN A SHALLOW TRENCH
STORAGE CHAMBERS – SECTIONS
NBP POINT LEPREAU REACTOR SITE