

2003

An Experimental Plan for Improvement of Failed Fuel Monitoring system
in CANDU Reactor

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CANDU

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Abstract

An experimental plan for improving the problems of failed fuel location system in Wolsung Unit-2 reactors was established. It is not possible to make an experiment on the failed fuel monitoring nuclides in the cold laboratories because they have very short half life. Therefore, the experiments can be only carried out at the existing monitoring system under reactor operation. For that reason, an experimental plan was drawn up for installing the radiation detection system on reactor site.

I.

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. CANDU

CANDU-6

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2

(loop)



II.

DN(delayed neutron)

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DN

(heat transport system: HTS)

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DN

(sampling coil)

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1.

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1) GFP
GFP(gaseous fission products)

DN (detection hole)

BF₃

가

가

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2)

DN

BF₃

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3)

가

가

GFP

2.

1

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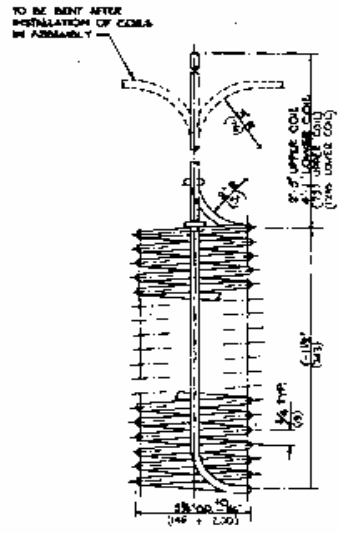
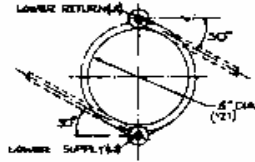
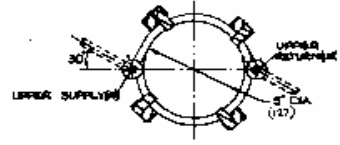
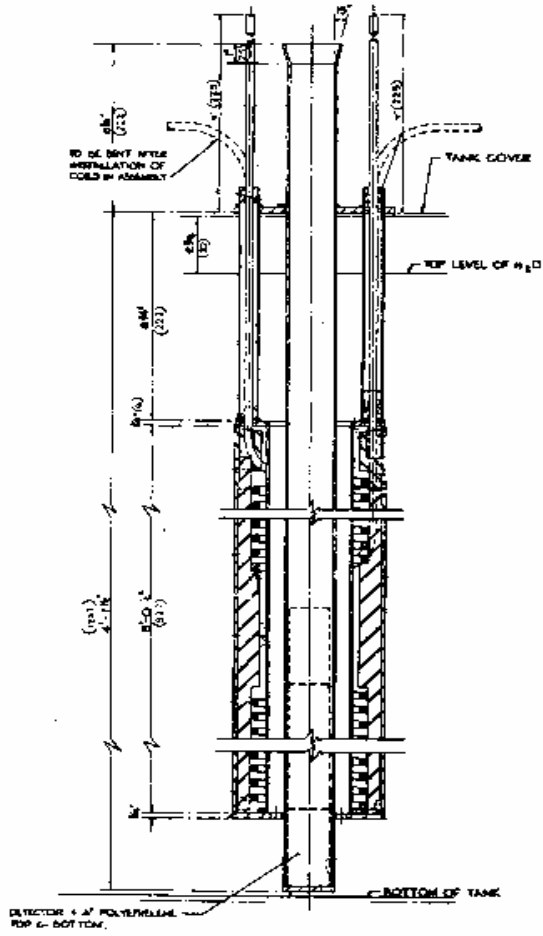
GFP
(DN)

DN

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DN



1.

DN