

# Group A

## DISMANTLING OF A HEAT EXCHANGER

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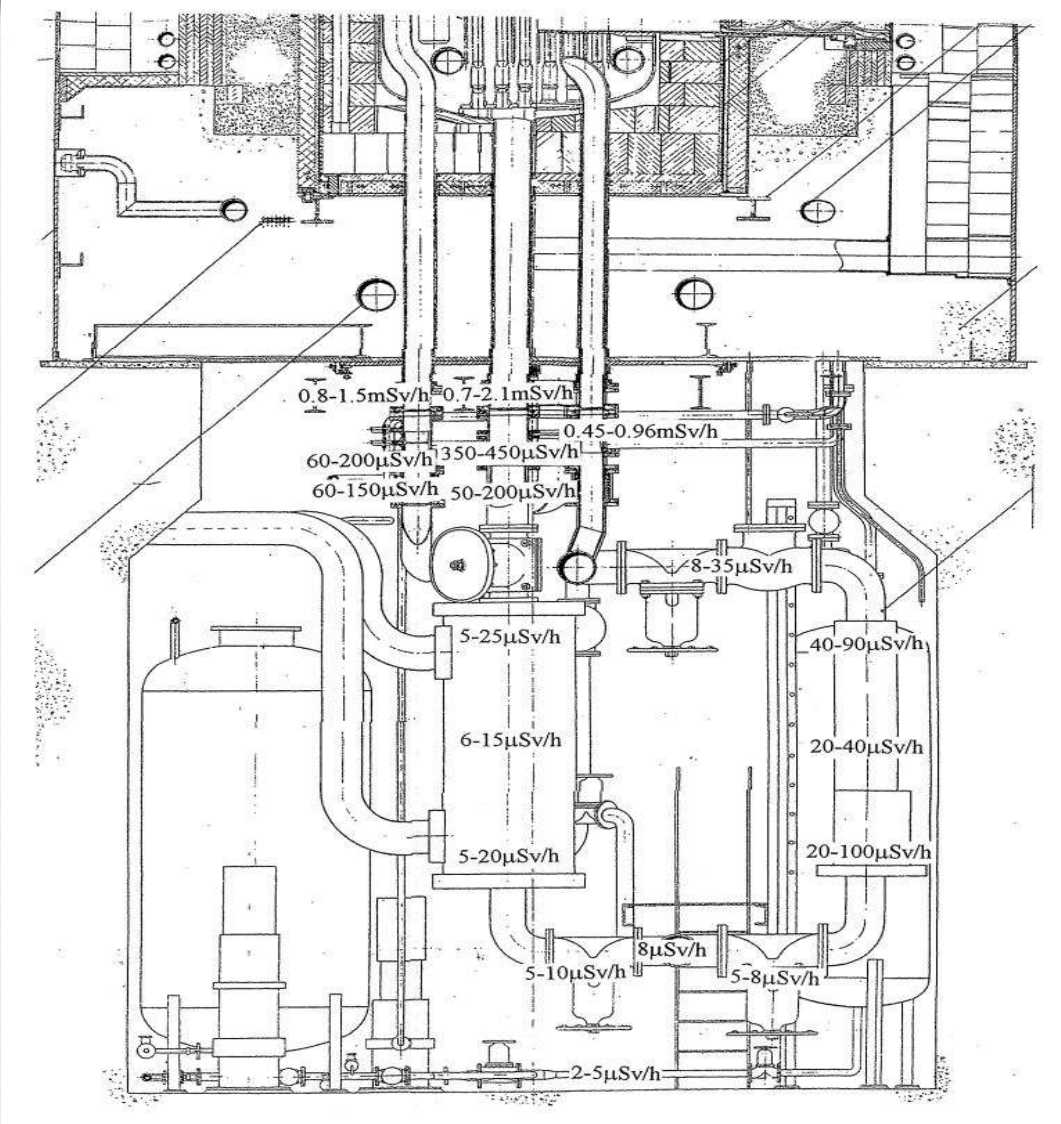
Maria Visitacion  
PALATTAO

Pablo Andrade GROSSI – move to Group C as an invited expert



# The Task

Dismantle DR-3  
Heat Exchanger



# Dismantling Sequence for Heat Exchanger (1 Unit) (Assumptions)

Assumption 1:

All component outside the reactor block has already dismantled and removed. There is enough free space to put the heat exchanger.

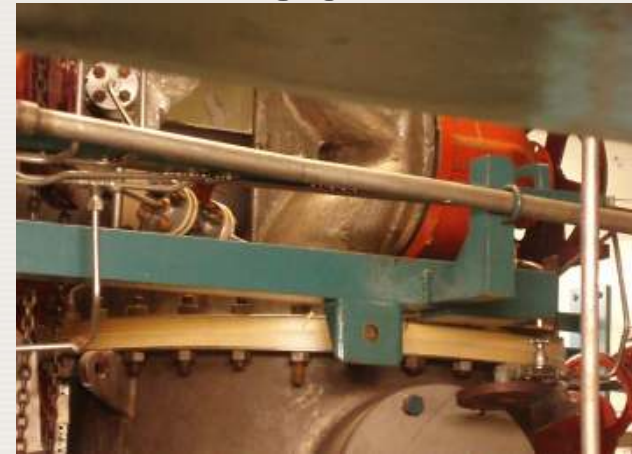


Assumption 2:

Heat exchanger shall be put in the temporary erected tent within the reactor building which connected to a ventilation and filtration device (HEPA filter).



UC



Assumption 3:

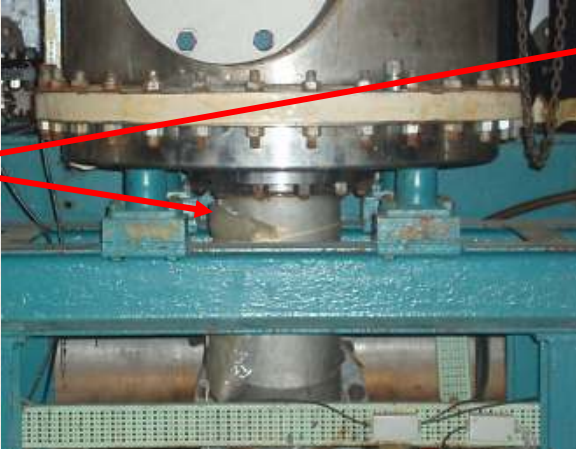
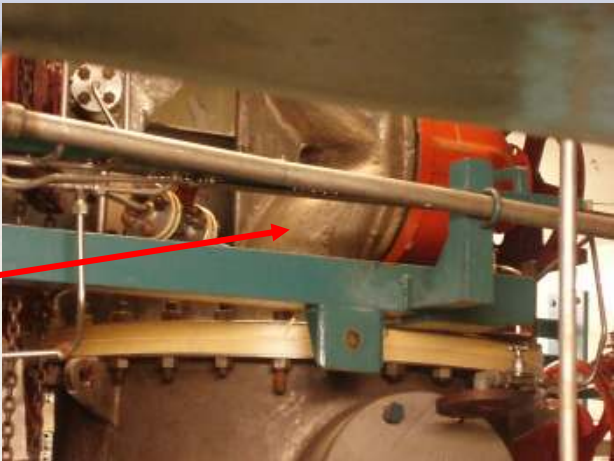
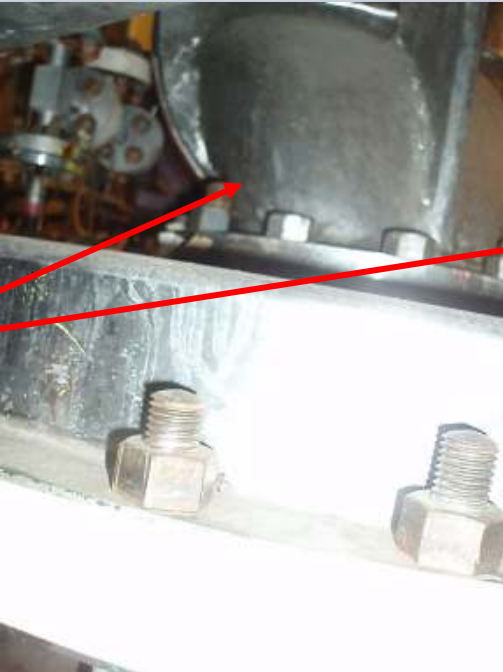
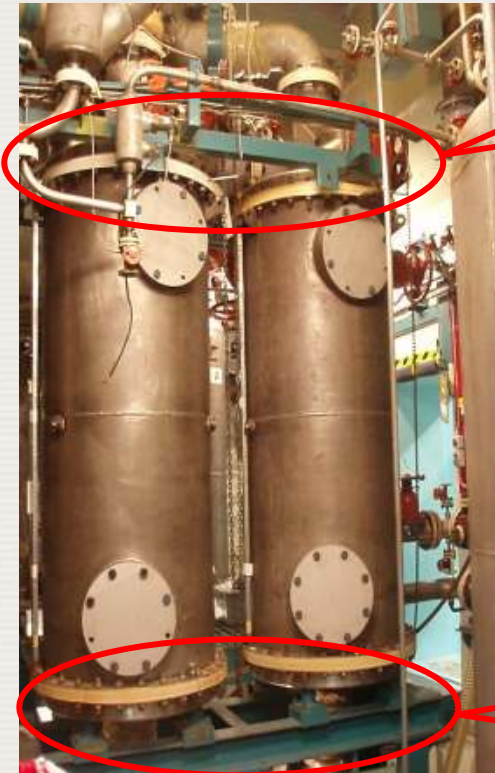
All structures and interferences around the UC and DC has been removed before the cutting process is started



DC

# Dismantling Sequence for Heat Exchanger (1 Unit)

UPCOMER



DOWNCOMER

## Dismantling Sequence for Heat Exchanger (Container and HX Dimensions)



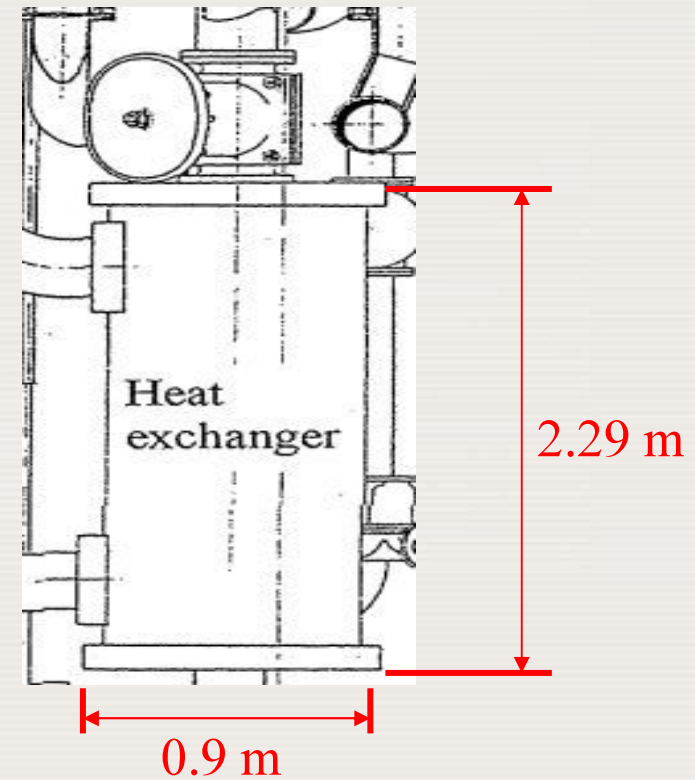
### CONTAINER DIMENSION (Type 2)

#### Inner dimensions:

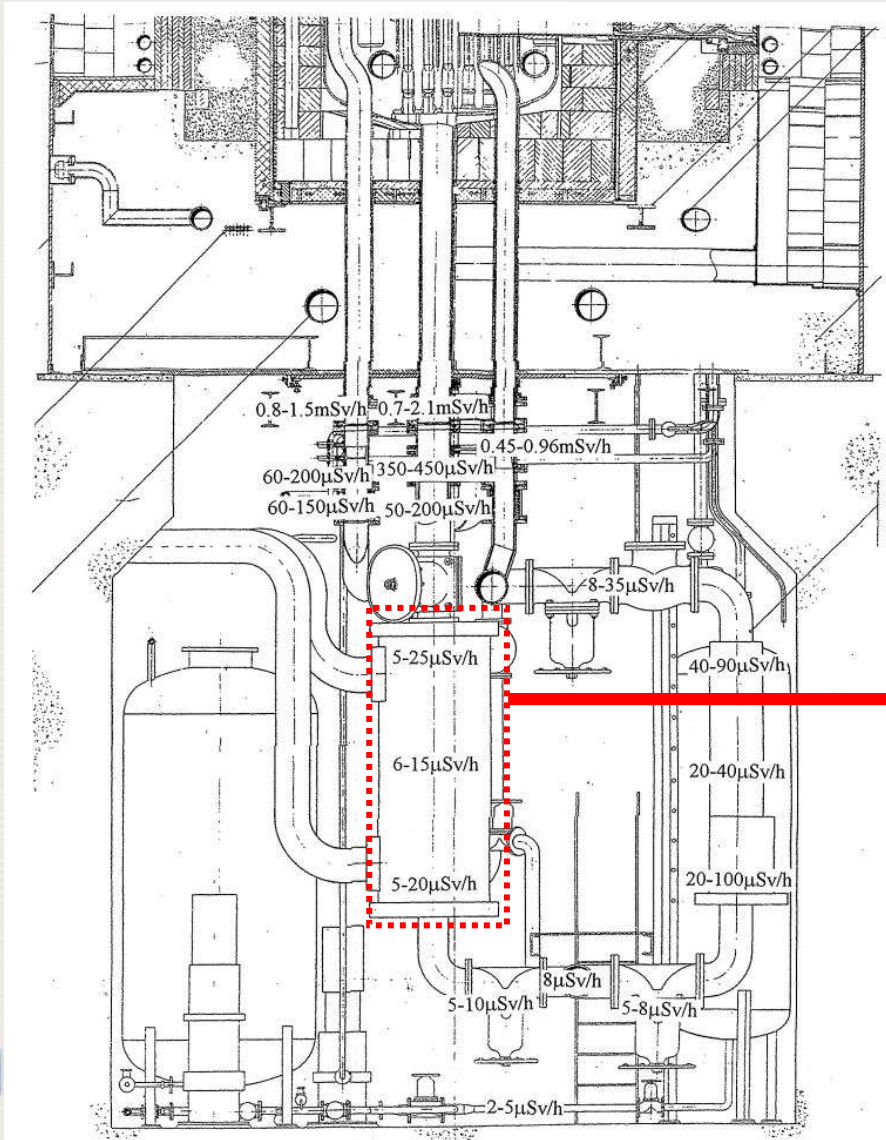
- L = 1.88 m
- W = 1.45 m
- H = 1.09 m
- Volume = 2.97 m<sup>3</sup>

#### External dimensions:

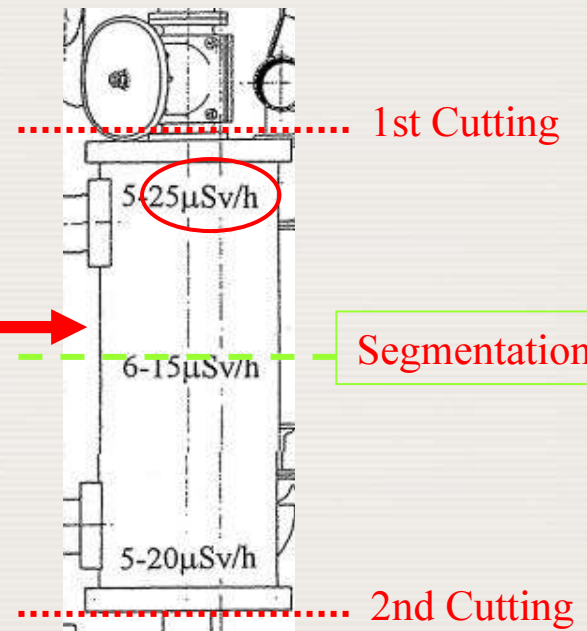
- L = 2.12 m
- W = 1.47 m
- H = 1.39 m



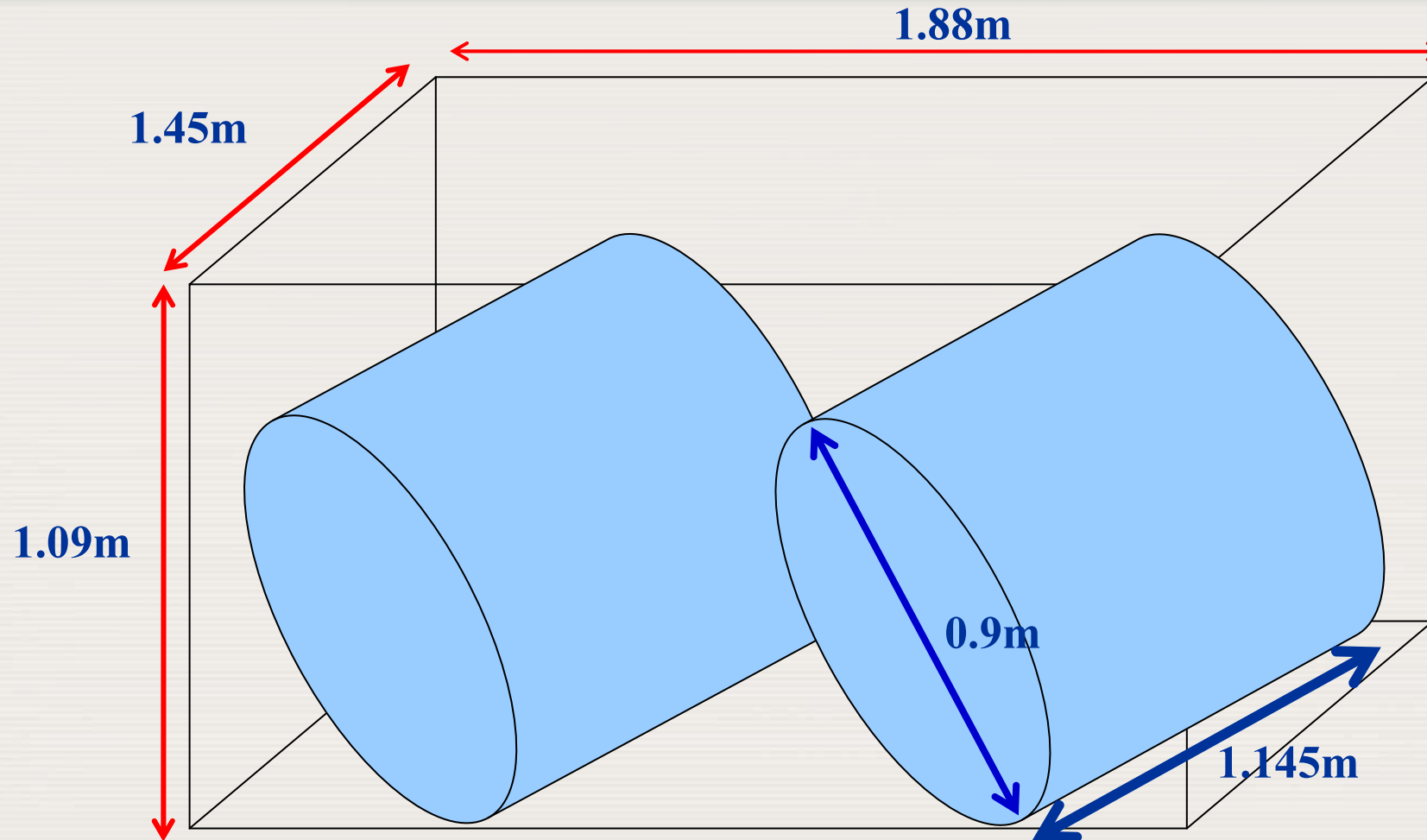
# Cutting Steps



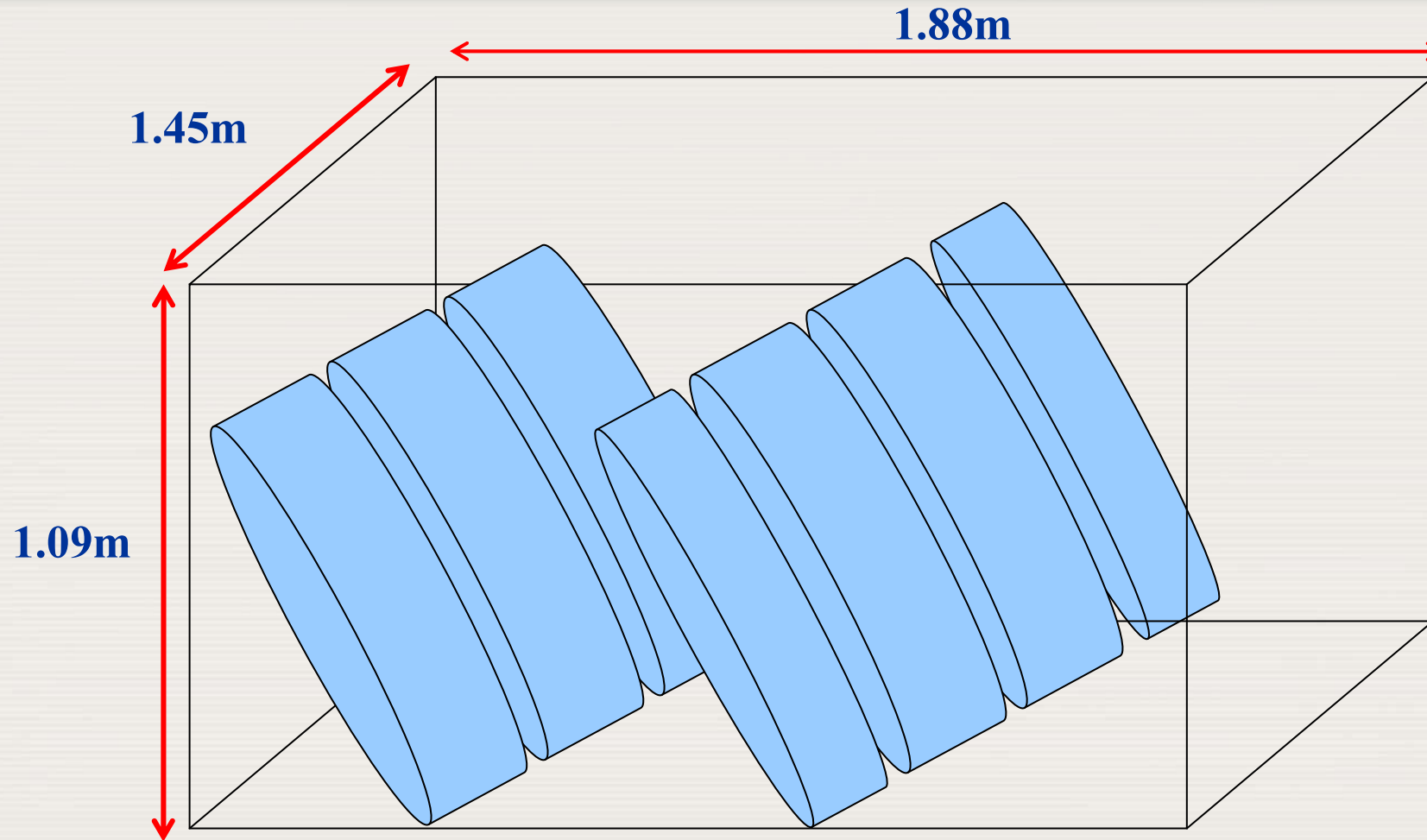
Vertical view



## Placing Segmented Heat Exchanger Into Container (2 Parts)



## Placing Segmented Heat Exchanger Into Container (7 Parts)





## RESOLUTIONS

### Dismantling of DR-3 Heat Exchanger

***Reference:***

IAEA Safety Report "Safety Assessment Methodologies for Decommissioning of Facilities Using Radioactive Material; Appendix H "Generic Checklist for Hazard Identification".