# PSB dump endoscopy 30<sup>th</sup> May 2013

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# AIM OF THE ENDOSCOPY

- After the 2<sup>nd</sup> ALARA Dry-Run on the 21<sup>st</sup> of May, it was decided to investigate further:
  - 1. State of Rail
  - 2. Junction between 4<sup>th</sup> and 5<sup>th</sup> block
  - 3. State and position of dump
  - 4. Upper part of concrete blocks: lifting point?

### **BEAM DUMP SHIELDING ASSEMBLY**



### CONCRETE BLOCK



RAIL



#### DUMP CORE



#### **BEAM PIPE – DUMP CORE ASSEMBLY**



#### 1. State of Rail $\rightarrow$ view under rail





Insertion of endoscope: view under rail

#### 1. State of Rail $\rightarrow$ view under rail



Conclusion: the rail is in one piece, in very good state and it reaches the end of the cavity

#### 1. State of Rail $\rightarrow$ view on top of the rail





Insertion of endoscope: on top of the rail

#### 1. State of Rail $\rightarrow$ view under rail



#### 1. State of Rail



Insertion of endoscope: between rail and concrete block





The lower part of the cavity is in good state, as well as the side of the rail

2. Junction between 4<sup>th</sup> and 5<sup>th</sup> block

Insertion of endoscope: outside concrete block

The outer part of the blocks is in good state and the 4<sup>th</sup> and 5<sup>th</sup> blocks are aligned



2. Junction between 4<sup>th</sup> and 5<sup>th</sup> block

Insertion of endoscope: inside concrete block (left & right side)

5<sup>th</sup> block inner  $\emptyset$  < 4<sup>th</sup> block inner  $\emptyset$ Conclusion: the blocks are aligned outside but not inside







3. State and position of dump



The dump's supporting balls are in good state, so are the cooling pipe connections

3. State and position of dump



water connections (cooling system)

3. State and position of dump



### **POSITION OF DUMP**



Conclusion: the dump is rotated 60 ° counter-clockwise

#### 4. Upper part of concrete blocks





Insertion of endoscope: upper part of 1<sup>st</sup> concrete block

#### 4. Upper part of concrete blocks: lifting point?



Conclusion: the blocks have a lifting point in their upper part

# CONCLUSIONS OF THE ENDOSCOPY

The aim of the endoscopy was to investigate:

1. State of Rail Conclusion: the rail is in one piece, in very good state and it reaches the end of the cavity. The rollers are also in good state. The technical drawings are accurate. 2. Junction between 4<sup>th</sup> and 5<sup>th</sup> block Conclusion: the blocks are aligned outside but not inside. 5<sup>th</sup> block inner  $\emptyset < 4^{th}$  block inner  $\emptyset$ 3. State and position of dump Conclusion: the dump's supporting balls are in good state, so are the water connections. The dump is rotated 60° counter-clockwise. 4. Upper part of concrete blocks: Conclusion: the blocks have a lifting point in their upper lifting point? part