



# Moving the Regulating Rod

Rachel Barnett

Associate Director, Reed Reactor

- The Problem

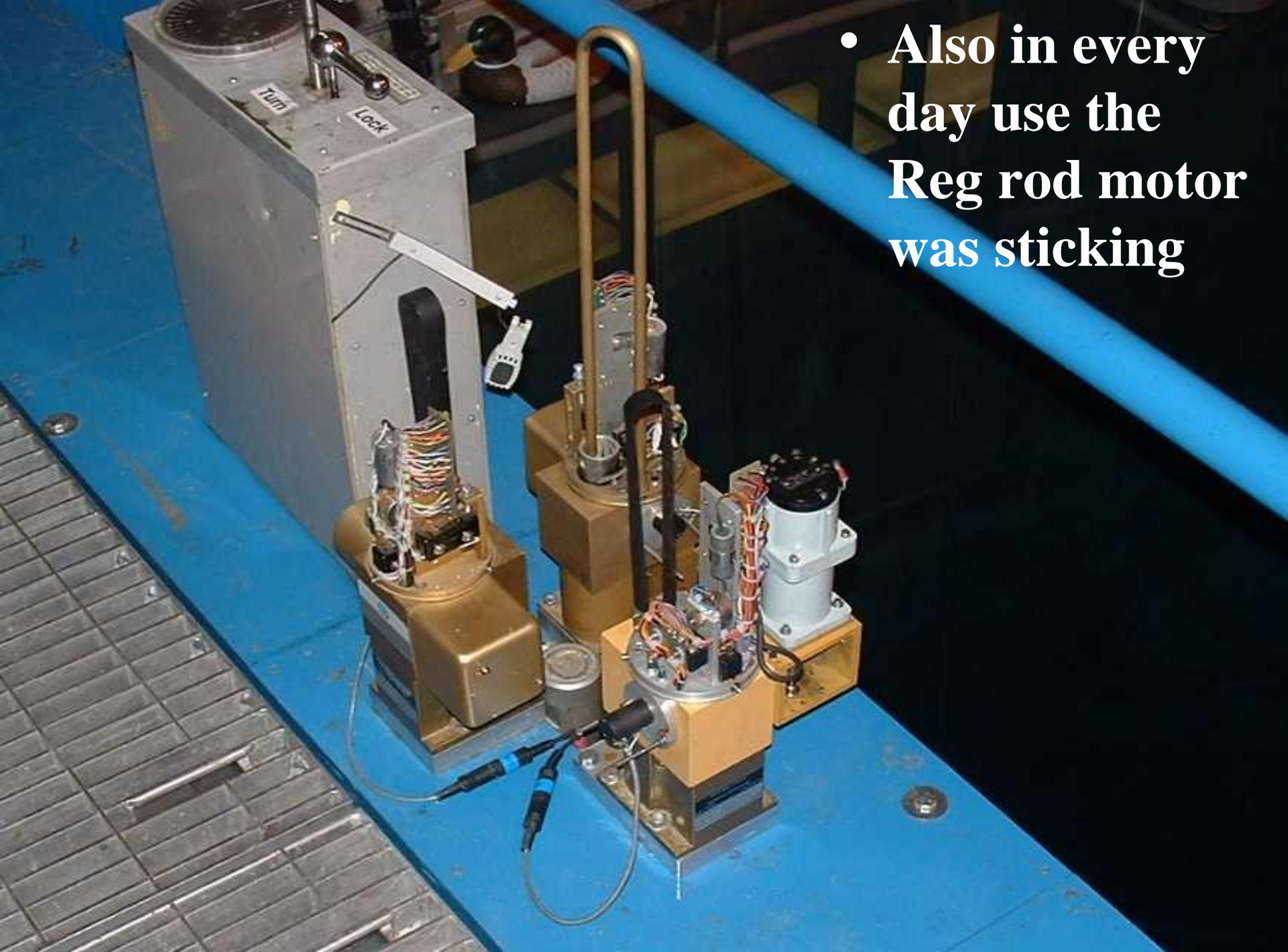
REG

1/14/03

- For many years the Reg Rod showed some wear during inspections
- This wear accelerated after 2000



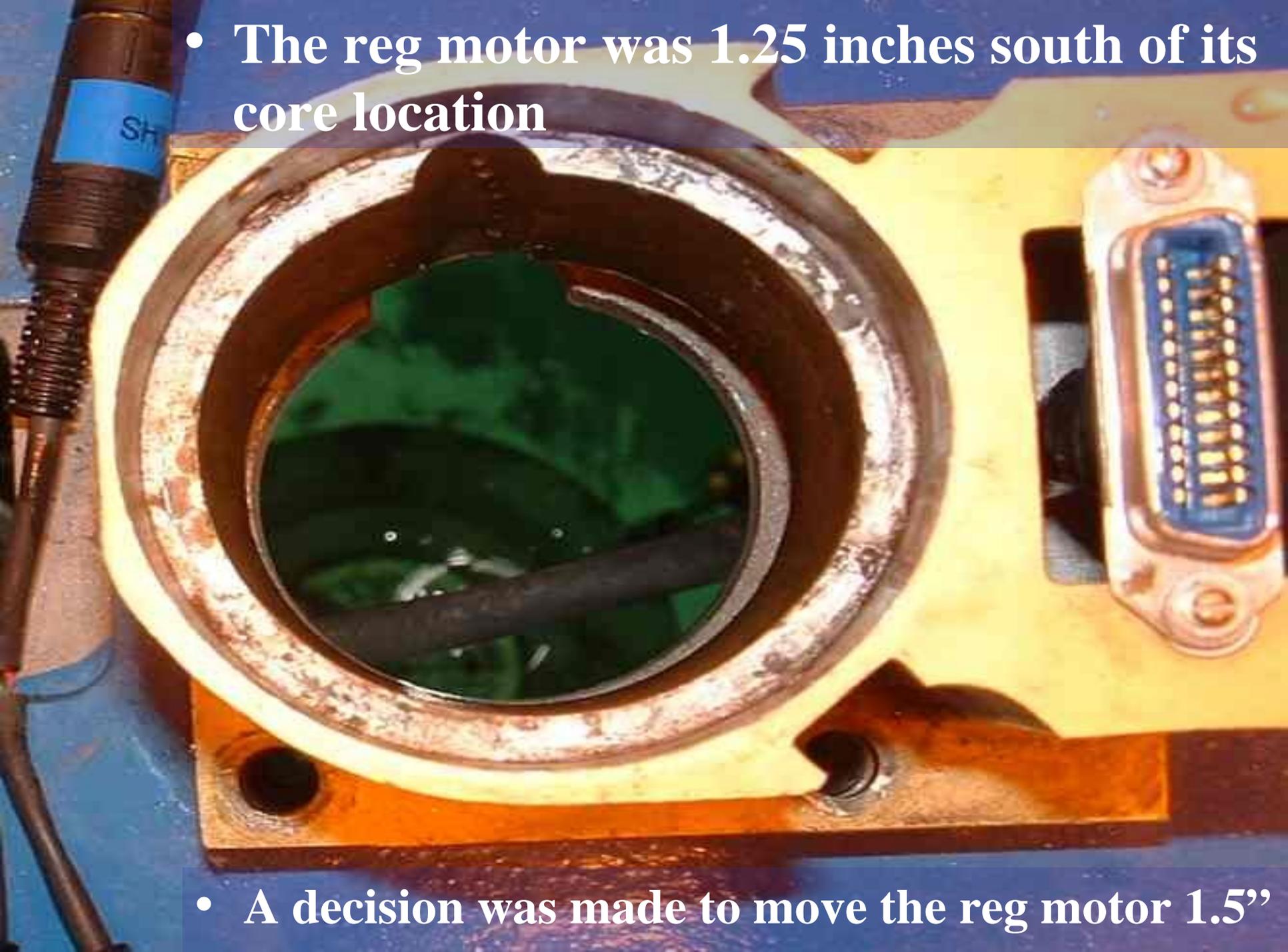
- Also in every day use the Reg rod motor was sticking



- A possibility is that the cause of the accelerated wear on the rod and motor was due the change to put all rods down rather than scrambling in 2000, since...

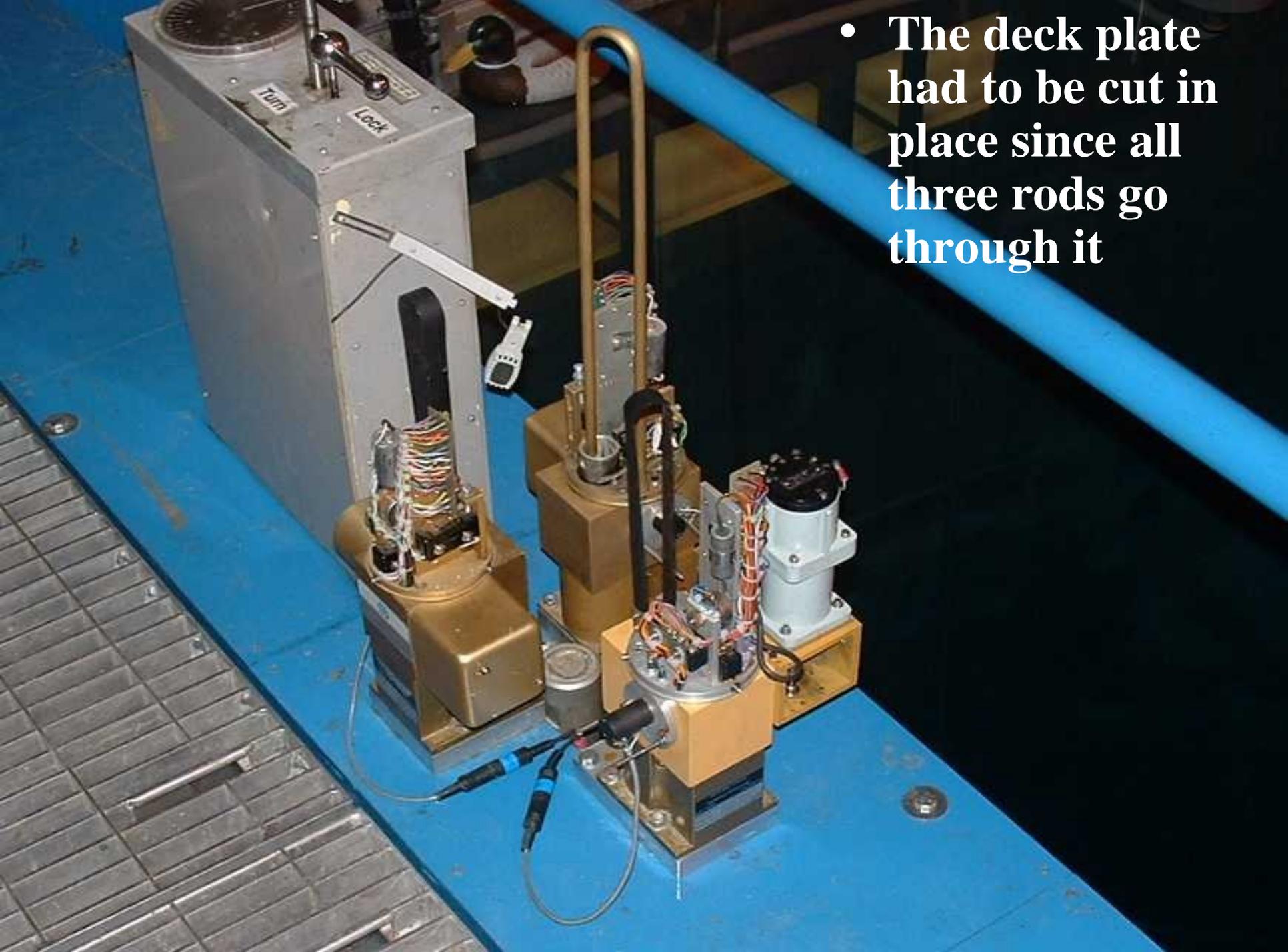


- The reg motor was 1.25 inches south of its core location



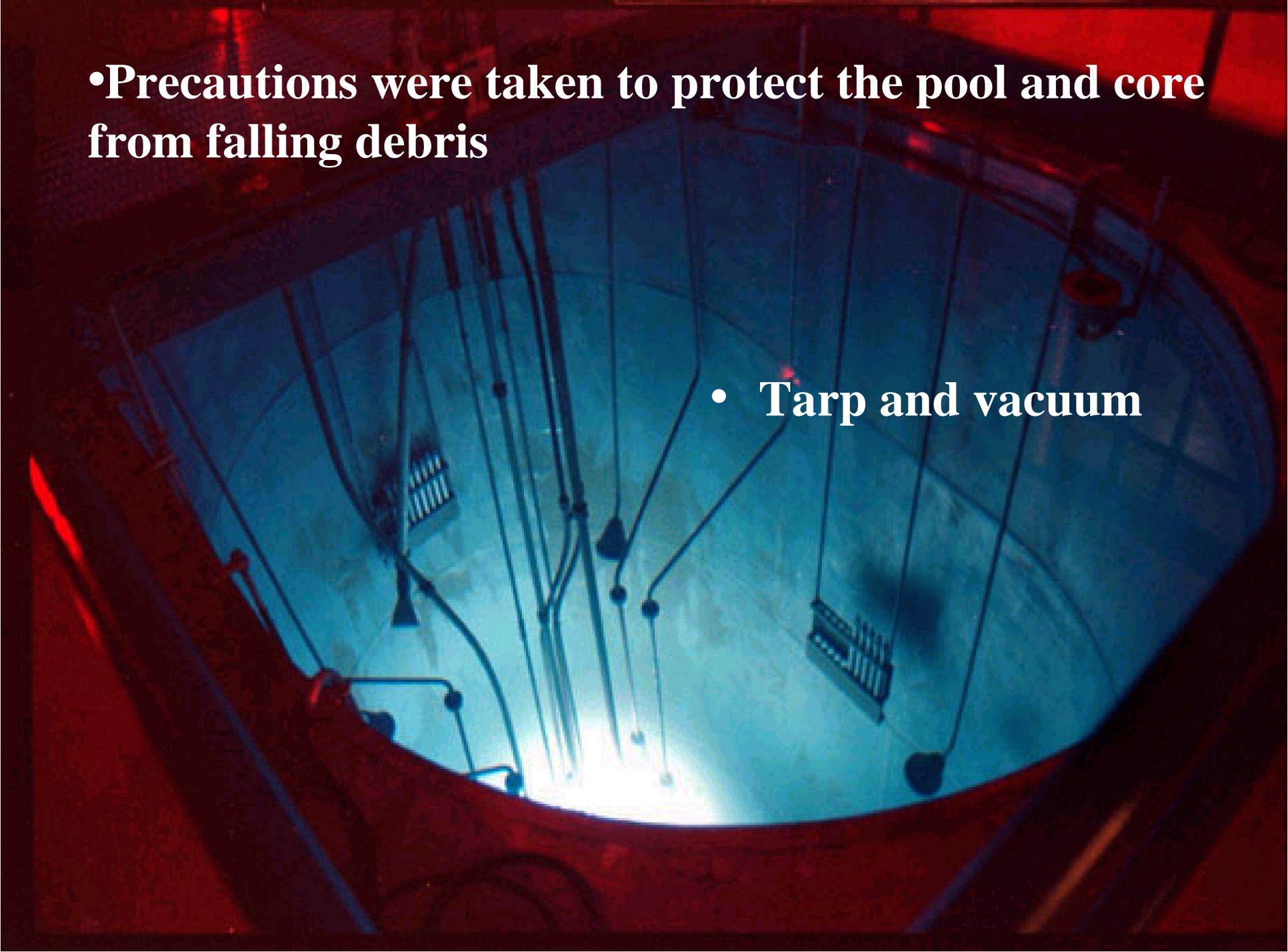
- A decision was made to move the reg motor 1.5''

- The deck plate had to be cut in place since all three rods go through it

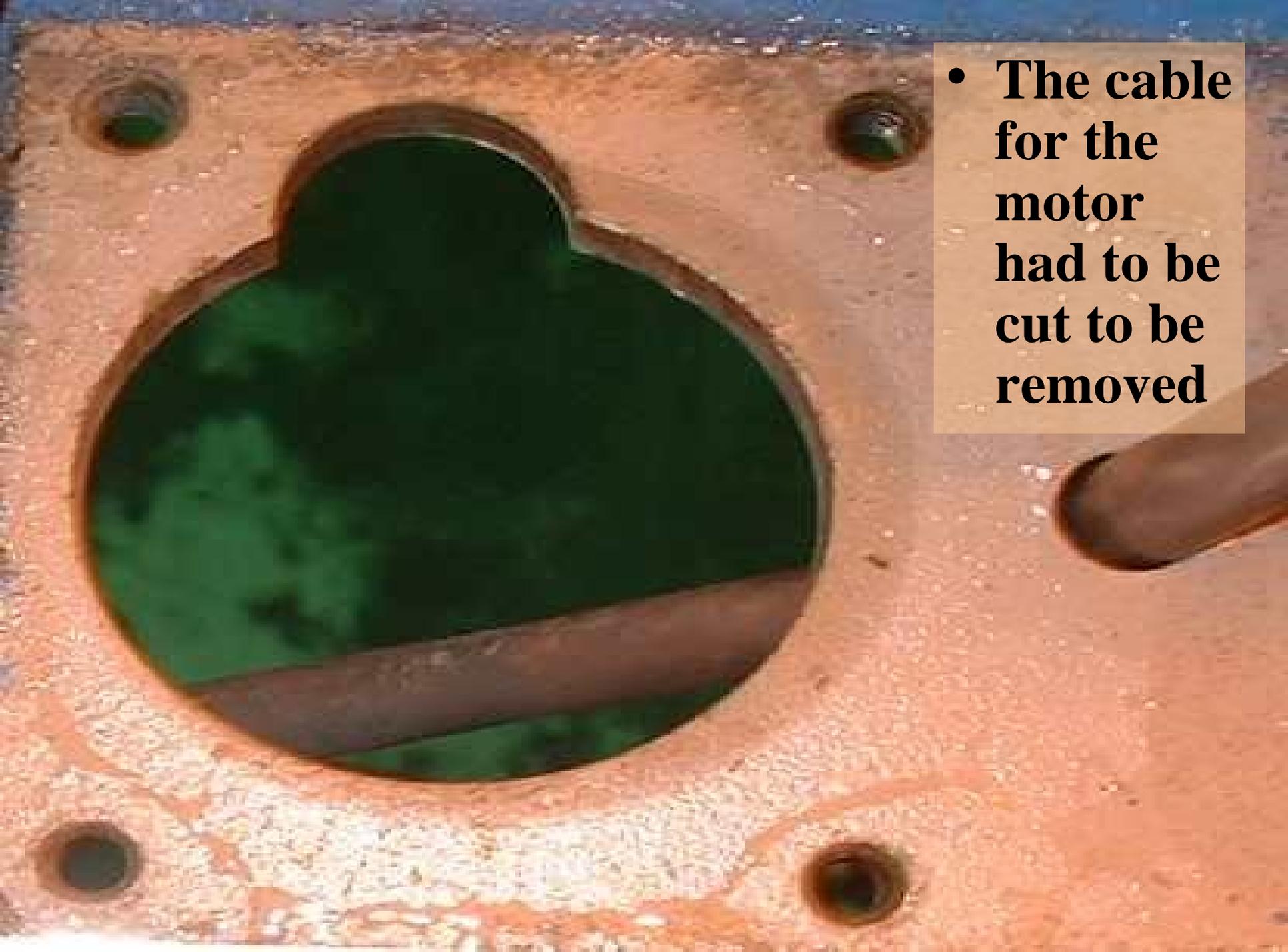


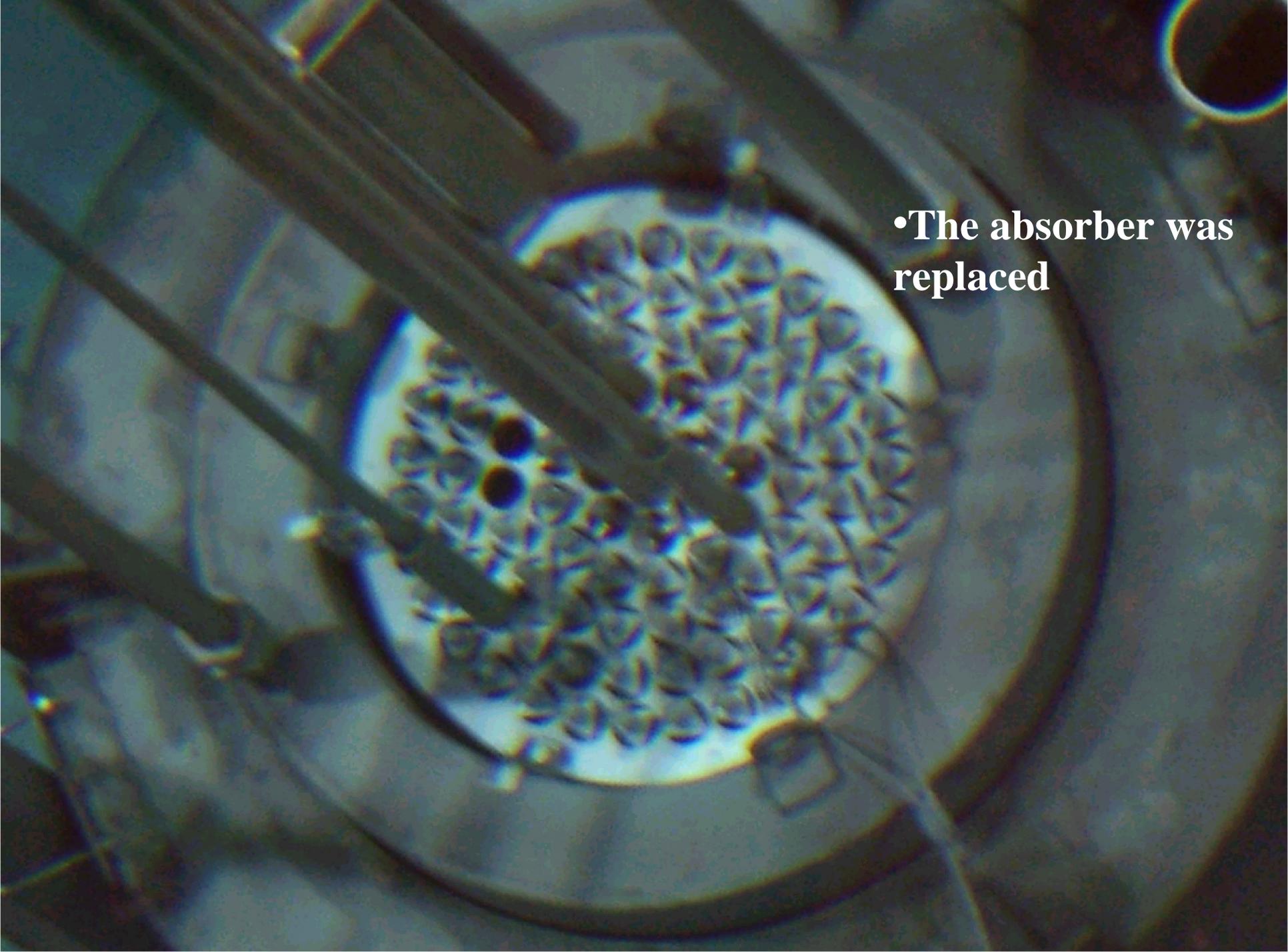
• Precautions were taken to protect the pool and core from falling debris

• Tarp and vacuum



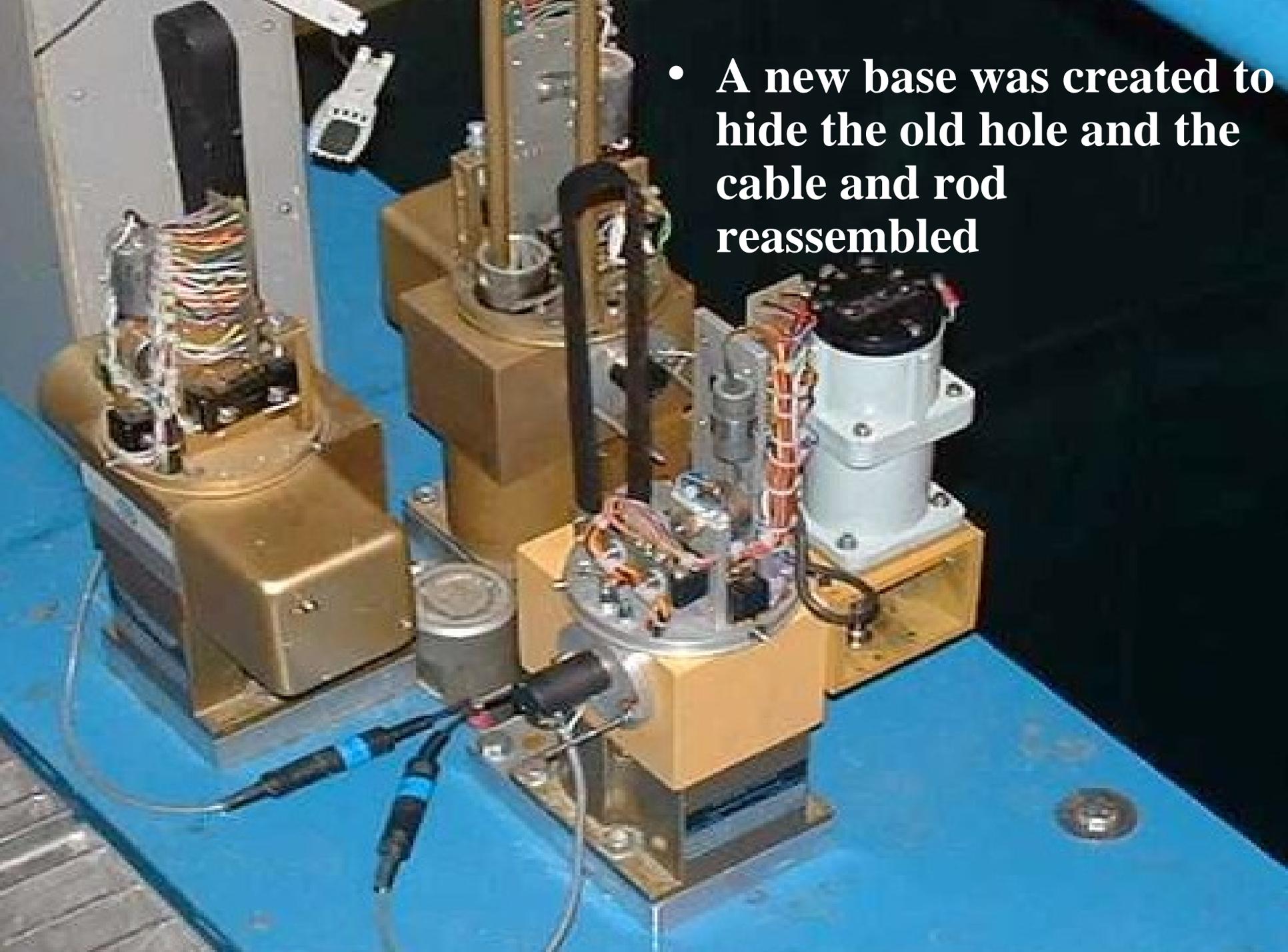
- **The cable for the motor had to be cut to be removed**

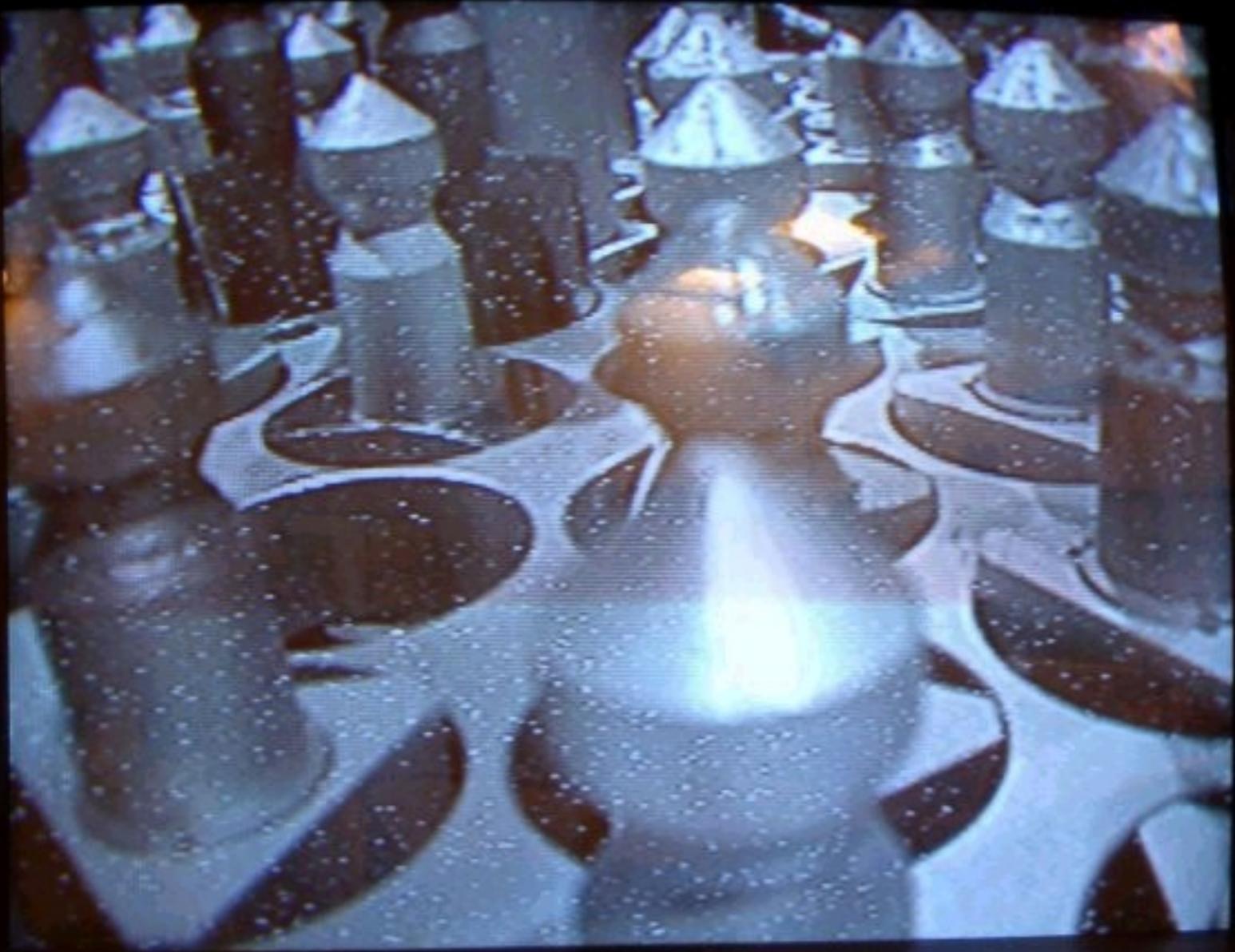


A close-up photograph of a circular metal component, likely a filter or absorber, held in place by tweezers. The component has a grid of small, circular holes. The background is a dark, metallic surface, possibly part of a laboratory instrument. The lighting is focused on the component, highlighting its texture and the grid pattern.

•The absorber was replaced

- A new base was created to hide the old hole and the cable and rod reassembled





Thank You

TRTR 2005

Rachel Barnett