



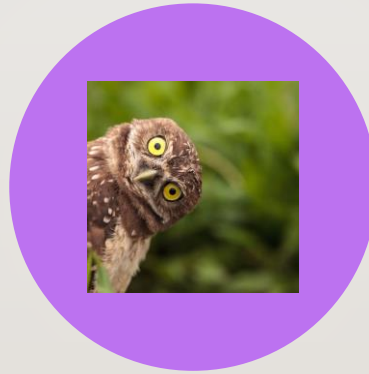
2025 SUMMER SNUG MAINTENANCE AND PLANNING

By: Jerry Bailey – Vogtle
A.P. Smith – V.C. Summer
July 2025, Savannah, Ga

INTRODUCTIONS



NAME



PLANT AND TYPE
OF SNUBBERS



JOB
RESPONSIBILITY

SITE OVERVIEW

- ❖ STAFF
- ❖ VENDOR
- ❖ TRAINING
- ❖ QC INSPECTION POINT

TEST BENCHES

- ❖ WHAT TYPE OF BENCH---ANYONE USE AN IN-PLACE TESTING MACHINE?
- ❖ WHO IS QUALIFIED TO OPERATE?
- ❖ WHO DOES THE CERTIFICATIONS?
- ❖ WHAT ARE THE PRO AND CONS WITH YOUR BENCH?
- ❖ DOES EVERYBODY USE A TEST BENCH?

REBUILD/REPLACE HYDRAULIC SNUBBER

- ❖ REBUILD OR REPLACE LISEGA SMALL BORE SNUBBER?
- ❖ REBUILD IN-HOUSE OR BY VENDOR?
- ❖ HOW MANY SPARES ARE READY TO GO PRIOR TO STARTING TESTING?

REGREASE MECHANICAL SNUBBER

- ❖ "Regrease all", "No regrease" or "Replace some"
- ❖ Regrease performed in-house or by vendor?
- ❖ HOW MANY SPARES ARE PRE-TESTED AND READY-TO-INSTALL PRIOR TO STARTING TESTING?

MAJOR PROJECT

❖ Switch small bore Paul Munroe to small Lisegas.

- 1) Did you have an in-house Lead person and separate group? If so, who all was in the group(Engineer, RP, etc)?
- 2) Did you hire a vendor for a “turn-key “ job? Provide feedback.
- 3) What went well and what needs improvement?

OPERATING EXPERIENCE (OE)

- ❖ WRONG SNUBBER INSTALLED IN WRONG LOCATION. SNUBBER WAS INSTALL BY MARKING ON WALL.
- ❖ TWO INSTEAD OF THREE PHASE POWER FEEDING THE BENCHES RESULTING IN THE INSTALLATION OF PHASE INDICATION LIGHTS AT THE BENCH (VCS)
- ❖ LOOSE HARDWARE ON TEST BENCH (SEAB)
- ❖ NO SECTION XI FOR REPLACEMENT(NANN)
- ❖ EMPLOYEE PINCHED A FINGER INSTALLING A SNUBBER (PSA-100) TO EXTENSION (MILL)

TOOLS

❖ PLEASE SUBMIT ANY PICTURES OF TOOLS THAT YOU THINK
MAY HELP THE GROUP!!!!!!!!!!!!!!

ITEMS USED IN REMOVAL AND INSTALLATION OF SNUBBERS AND STRUTS AND ASSISTING IN PREVENTION OF DROPPED OBJECTS OCCURRENCES.

AT SEABROOK NUCLEAR STATION, MECHANICS CREATED THIS SHIM HOLDER IN-HOUSE. IT WAS CREATED TO ADDRESS A SAFETY ISSUE (DROPPED OBJECTS), WHILE INSTALLING SNUBBER OR STRUT SPACER PINS. THIS IS AN EXAMPLE OF DEVELOPING A SIMPLE SOLUTION TO A VERY REAL NEED. THE TOOL CONSISTS OF A SET OF DIVIDERS MODIFIED TO ALLOW THE SPACER WASHER TO BE CAPTURED SECURELY, THUS ALLOWING THE INSTALLER TO SAFELY HOLD THE SPACER IN PLACE WHILE THE PIN IS INSERTED AND RELEASED IN A CONTROLLED FASHION. THIS EVOLUTION CAN PROVE TO BE DIFFICULT DUE TO TIGHT SPACES AND CLEARANCES THAT THE SNUBBERS ARE LOCATED IN. TYPICALLY, THIS IS DONE WITH TAPE, WHICH IS NOT RELIABLE AND CAN CAUSE THE SPACER TO DROP, RESULTING IN A DROPPED OBJECT ISSUE AND A POSSIBLE FOREIGN MATERIAL ISSUE (FME). ULTIMATELY, IF NOT FOUND, ALSO A HOUSEKEEPING ISSUE.





Picture from Vogtle;
used to hold shims.

AT SEABROOK NUCLEAR STATION, MECHANICS FABRICATED A DEVICE IN-HOUSE TO ADDRESS A SAFETY ISSUE (DROPPED OBJECTS). THIS DEVICE CAPTURES THE LARGE SNUBBER SUPPORT PINS AND PREVENTS THEM FROM FALLING WHICH IS A MAJOR CONCERN DURING THE REMOVAL AND REINSTALLATION PROCESS ESPECIALLY IN AREAS WHERE OTHERS MAY BE UNDER OR NEAR THE WORK SITE.





SEABROOK NUCLEAR STATION: MECHANICS FABRICATED A DEVICE IN-HOUSE TO HELP ADDRESS A SAFETY ISSUE. DURING THE INSTALLATION OF LARGE SNUBBERS, A TEMPORARY PIN IS INSERTED TO GREATLY HELP IN THIS DIFFICULT JOB. GETTING THE SUPPORT CLEVIS AND THE SNUBBER BODY ROD EYE TO ALIGN CAN BE A REAL CHALLENGE IN THE FIELD. A SIMPLE SOLUTION WAS TO MAKE A TAPERED ALIGNMENT PIN. THIS HELPS GET ALL THE HOLES IN LINE AS THE SUPPORT PINS ARE REINSTALLED. SOME OF THESE PINS ARE QUITE HEAVY WHICH IF DROPPED COULD BE A REAL SAFETY CONCERN.



SEABROOK DRIVE PINS



VC Summer Drive Pins



VOGTLE 1-2 NUCLEAR STATION: MECHANICS FABRICATED A DEVICE IN-HOUSE TO ADDRESS A SAFETY ISSUE. WHILE INSTALLING LARGE SNUBBERS ONTO THREADED END TAIL PIECE THE LIFTING AND TURNING OF SNUBBERS SAFELY IS A BIG CHALLENGE. THIS SPINNING TOOL WILL ALLOW LIFTING AND TURNING OF THE SNUBBER ALL IN ONE DEVICE. THE SNUBBER CAN ALSO BE LOCKED IN PLACE WITH SEVERAL BOLTS ALREADY INSTALLED THUS MAKING THIS TASK A LOT EASIER AND SAFER.









SLIDE SLEDGE: A COMMERCIALLY AVAILABLE DEVICE CAPABLE OF KNOCKING OUT SUPPORT PINS WITHOUT THE USE OF A SLEDGEHAMMER AND PUNCH. THIS TOOL COMES IN SEVERAL SIZES AND WITH MULTIPLE AVAILABLE ACCESSORIES. ITS USE CAN HELP KEEP HANDS OUT OF THE LINE OF FIRE THUS BEING A BENEFIT TO PERSONNEL SAFETY.





VOGTLE TESTING SHOP





GORBEL
2000 LBS. CAPACITY
DANGER DO NOT EXCEED RATED CAPACITY.

GORBEL
2000 LBS. CAPACITY
DANGER DO NOT EXCEED RATED CAPACITY.

Out of Service

Sirius-5PAB

CANBERRA

wyle

Tool Steel Division

1805-47

AMBER

FLAME

STOP

GENERAL

STORAGE

MAINTENANCE

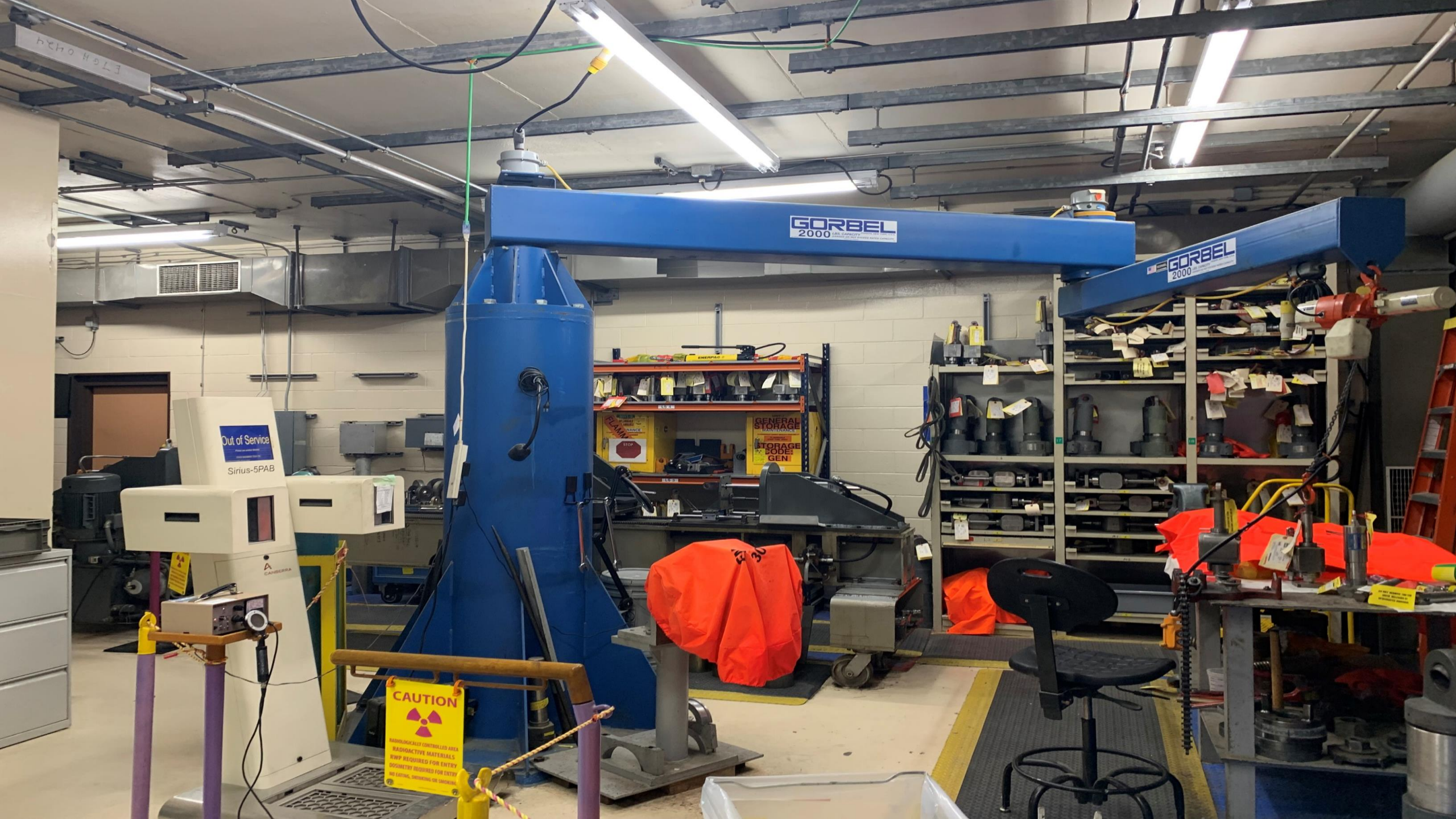
STOP

STORAGE

DANGER







ETCHING

GORBEL
2000

GORBEL
2000

Out of Service
Sirius-5PAB

CAUTION



RADIOLOGICALLY CONTROLLED AREA
RADIOACTIVE MATERIALS
RWP REQUIRED FOR ENTRY
RADIATION MONITORING REQUIRED FOR ENTRY
AND EXITING, INCLUDING THE DETECTOR

STOP

GENERAL STORAGE
STORAGE CODE GEN



GORBEL
2000

GORBEL
2000

CAUTION
RADIOLOGICALLY CONTROLLED AREA
RADIOACTIVE MATERIALS
RUMP REQUIRED FOR ENTRY
DOSEMETRY REQUIRED FOR ENTRY
NO EATING, DRINKING OR SMOOKING

CAUTION
RADIOLOGICALLY CONTROLLED AREA
RADIOACTIVE MATERIALS
RUMP REQUIRED FOR ENTRY
DOSEMETRY REQUIRED FOR ENTRY
NO EATING, DRINKING OR SMOOKING

WRIGHT

WRIGHT

0586050

L40

WPA



VC SUMMER TESTING TRAILER



BARKER/DIACON 75 KIP



BARKER/DIACON 6 KIP



TESTING AREA



POWER PHASING INDICATION LIGHTS



THE END.
THANK YOU FOR YOUR ATTENTION
AND PARTICIPATION.

