



# Executive Session - Kickoff

Gina Rameika

Director's Progress Review of the Short Baseline Neutrino Program

01-Nov-2017

# In Case of Emergency

- **Emergency Calls:**

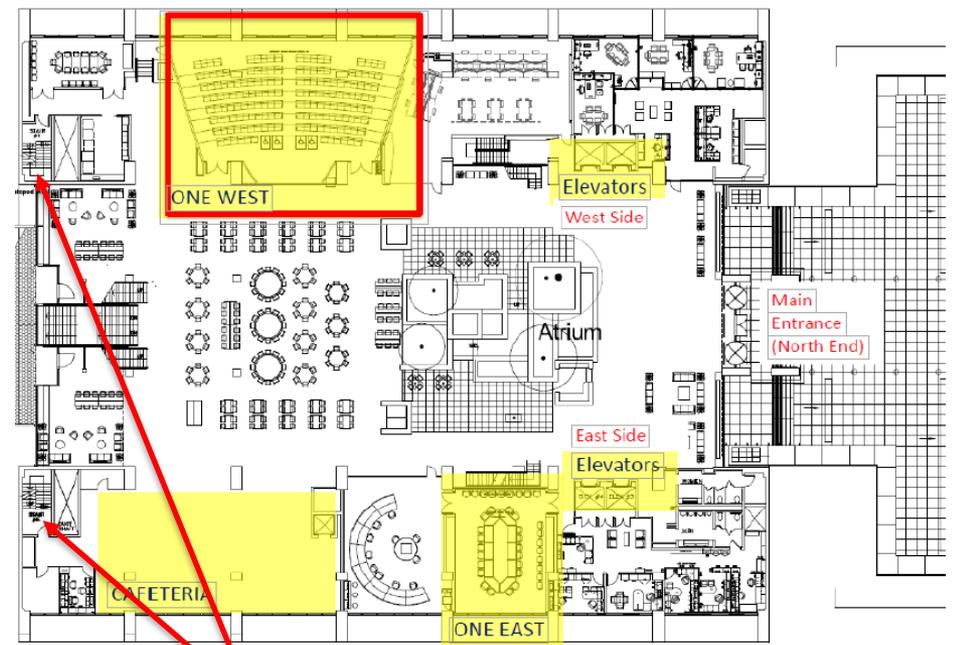
- Call 3131 from a lab phone
- Call (630) 840-3131 from a cell phone

- **Fire:**

- Exit Wilson Hall south stairways to ground floor
- Follow building residents to assembly area

- **Tornado/Severe Weather:**

- Exit Wilson Hall south stairways to basement refuge area (behind auditorium)
- Stay in refuge area until “all clear” is announced



**South Stairways**

# Agenda for Exec Session

- Introductions
- SBN Background
- Charge to Reviewers
- Assignments/Write-ups
- Agenda
- Discussion

# Introductions

- Please introduce yourself:
  - Your name
  - Your home institution or company and role
  - The area you are reviewing or role at this review

# Background - Program not a Project

What the SBN Program **IS**:

- A physics program: search for sterile neutrinos
- A staged campaign to install and operate three LArTPC detectors
- A component of detector R&D headed toward DUNE
- Mixture of in-kind contributions from several European and American organizations

What the SBN Program **IS NOT**:

- A DOE 413 Project

# Charge Scope

- This review should cover the following aspects of the program:
  - Design, construction, and installation of the SBND detector system (TPC, cosmic ray tagger, light collection, electronics, DAQ) and its cryostat;
  - Installation of the ICARUS detector;
  - Design, construction, and installation of the ICARUS cosmic ray tagger;
  - Design, construction, and installation of the necessary support infrastructure such as cryogenic systems, DAQ and overburden;
  - Transition to operations
  - Progress to date versus plan and the forecast for completion of the SBN program construction work

# Design and Scope Charge Questions

Each **Technical** Subcommittee (Detectors and Electronics/DAQ) will respond to the following questions in their section of the report:

- Is the overall progress on ICARUS installation, cryogenics and SBND construction consistent with the planned milestones?
- Are appropriate program driven technical reviews being planned, conducted and responded to?
- Are interfaces being adequately addressed?

# Cost and Schedule Charge Questions

The **Cost and Schedule** Subcommittee will respond to the following questions in their section of the report:

- Are the cost and schedule basis of estimates for remaining DOE-funded work credible?
- Given the presented funding scenarios, is the SBN construction and installation schedule achievable?
- Are the schedules for the non-DOE deliverables compatible with the construction and installation schedule?

# Management & ESH Charge Questions

The **Management & ESH** Subcommittee will respond to the following questions in their section of the report:

- Is the program being properly managed for the successful execution of the SBN?
- Are the projected personnel resources sufficient to complete design, construction, and installation of the SBN program and are these resources likely to be available when needed?
- Are the remaining significant risks understood and adequately managed?
- Has the program adequately investigated alternate solutions to address funding shortfalls relative to the baseline program scope?
- Is the boundary between construction/installation and operations well defined?
- Are the resources needed for initial ICARUS operations understood and identified?

## ESH&Q Charge Questions

The **ESH&Q** Subcommittee will respond to the following questions in their section of the report:

- Is ES&H being appropriately addressed?
- Are the required safety approvals on track to meet the schedule?

# Reviewer Assignments

## Chairperson

Gina Rameika, FNAL

## Management

Brenna Flaughter\*, FNAL

Gina Rameika, FNAL

## Cost and Schedule

Rich Marcum\*, FNAL

Corinne Vendetta, FNAL

## ESH&O

David Mertz, FNAL\*

## Electronics and DAQ

David Christian\*, FNAL

Gary Drake, ANL

Ted Liu, FNAL

## Detector

Bruce Baller\*, FNAL

Dervin Allen, FNAL

Michelle Stancari, FNAL

## Infrastructure

Jim Grudzinski\*, ANL

Russ Rucinski, FNAL

Bill Soyars, FNAL

\*Lead

# Committee Deliverables and Deadlines

- Report template (Review Closeout Presentation Format) is posted on GoogleDocs
- [Link to Closeout Report](#)

You can log into GoogleDocs using a Gmail address. If you haven't already, please send the address to Lisa Temple ([ltemple@fnal.gov](mailto:ltemple@fnal.gov)) so she can add the permission

- Write-ups should be ready for Thursday Morning Closeout Dry Run.
- A final report is due within 3 weeks after the closeout.

# Report Terminology

Findings	Findings are <b>statements of fact</b> that summarize noteworthy information presented during the review.
Comments	Comments are <b>judgment statements about the facts</b> presented during the review. The reviewers' comments are based on their experiences and expertise.  The comments are to be evaluated by the project team and actions taken as deemed appropriate.
Recommendations	Recommendations are <b>statements of actions</b> that should be addressed by the project team. A response to the recommendation is expected and that the actions taken would be reported on during future reviews.

# Today's Agenda Overview

8:45am-11:45am today: Plenaries in Hornet's Nest (8<sup>th</sup> floor crossover).  
Break at 10:20am.

11:45am-12:45pm: Lunch on 15<sup>th</sup> Floor

12:45pm-2:30pm today: Breakouts

Detectors – Hornet's Nest WH8XO

Electronics/DAQ – Snake Pit WH2NE

Infrastructure – One East

Management/Cost/ESH – Comitium

2:45pm-4:30pm: Combined Integration & Installation – Hornet's Nest

4:30pm-6:00pm today: Full committee executive session in Comitium

6:00pm – Dinner on 15<sup>th</sup> Floor

## Tuesday Agenda Overview

- 8am-11am – Final writing in Comitium
- 11am –Dry Run in Comitium, Working Lunch
- 1:00pm – Closeout in Hornet's Nest (WH8XO)

Questions?