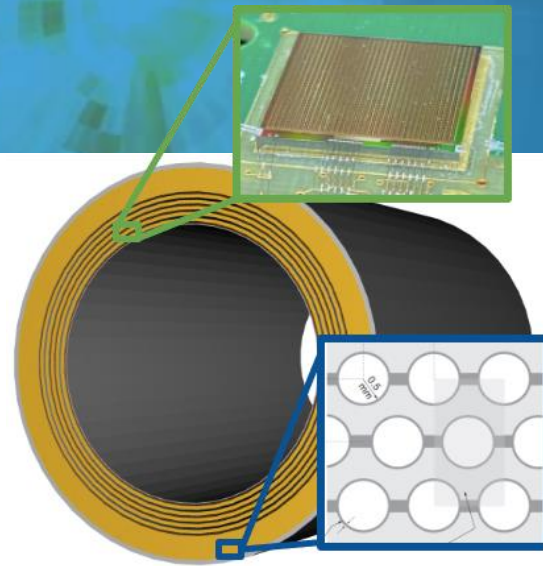


## *The ePIC Barrel Imaging Calorimeter*

# BIC News

Jessica Metcalfe  
Argonne National Laboratory

BIC General Meeting  
June 17, 2025



- BIC Logo Contest
- Joint EICUG/ePIC Collaboration Meeting July 14-18
- AstroPix Workshop hosted by NASA August 18-20
- Detector Advisory Committee Review held June 11-13
- BIC Preliminary Design Review, end of summer

# BIC Logo Contest



## Submit your ideas

Submit your ideas!

- Professionally appropriate
- Be creative
- Submit entries on google drive folder [Link](#)
- If you don't have access to the BIC google drive yet, please send request to Jessica, Maria, or Sylvester

**Deadline to submit: July 18**

Voting: ~July 21 – August 1 (exact dates might change)

→ Incorporate into the BIC presentation template for the PDR

# Joint EICUG/ePIC Collaboration Meeting



JULY 14-18

JEFFERSON LAB

SUMMER 2025 JOINT EICUG/EPIC COLLABORATION MEETING

## JOINT EICUG/ePIC COLLABORATION

July 14-18, 2025

Jefferson Lab • Newport News, VA



- [Link](#)
- Host cross-area workfests → no specific BIC workfest
- Register by July 1

# AstroPix Workshop



**August 18-20**

**University of Maryland**

Hi all,

This is the 2nd announcement for the upcoming AstroPix workshop which will be held at UMD August 18-20, 2025. This is open to everyone: AstroPix veterans, those who are new to the project, and those interested in learning more/getting involved! If you plan to attend please fill out this form: <https://forms.gle/mQfvrLQc5uWiuYgr9> Details on the workshop can be found in our google drive: [August 18-20, 2025](#). This includes:

- Logistics: [https://docs.google.com/document/d/11U1wtKKSqZRvzIW3dKlp7KwlleecKKoy0vIAa\\_7aFGY/edit?usp=share\\_link](https://docs.google.com/document/d/11U1wtKKSqZRvzIW3dKlp7KwlleecKKoy0vIAa_7aFGY/edit?usp=share_link)
- Suggestions for topics: [https://docs.google.com/document/d/1uQotQH5zRemZsMfLl23IF3QRm423UyEJc\\_dGVcVEMA/edit?usp=share\\_link](https://docs.google.com/document/d/1uQotQH5zRemZsMfLl23IF3QRm423UyEJc_dGVcVEMA/edit?usp=share_link)
- And a sign up for a GSFC tour on Thursday: [https://docs.google.com/document/d/14rHAzDIJ31Zk\\_wSuJSbWZ4-DhjhKIOe\\_EWh0inwLjj0/edit?usp=share\\_link](https://docs.google.com/document/d/14rHAzDIJ31Zk_wSuJSbWZ4-DhjhKIOe_EWh0inwLjj0/edit?usp=share_link)

If you have any questions, please don't hesitate to reach out. Looking forward to seeing you all in August!

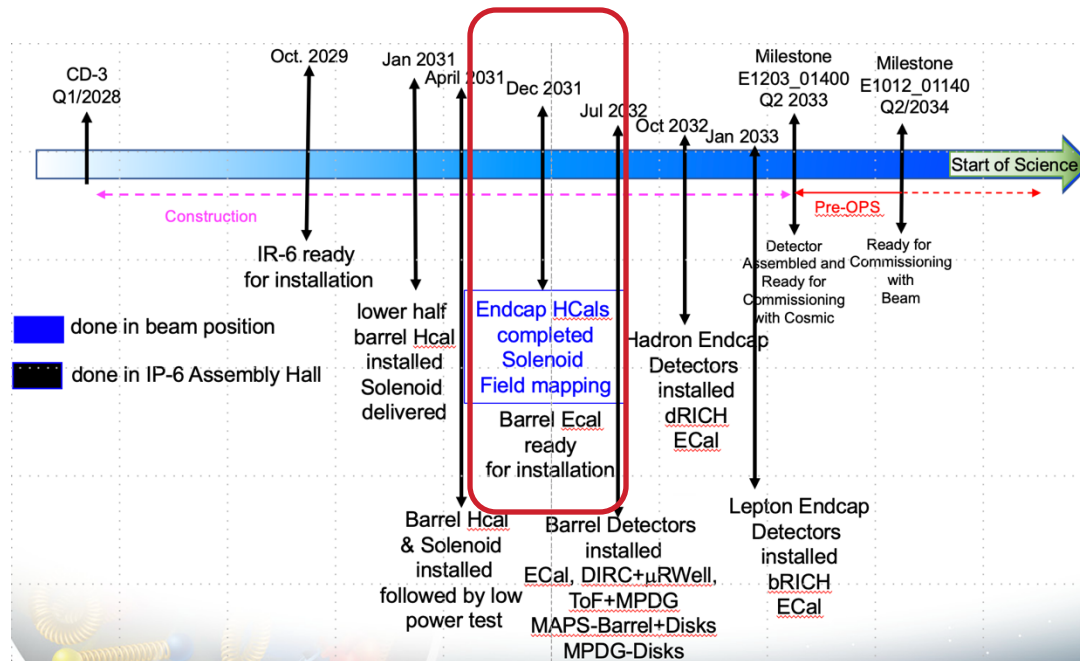
Best,  
Regina

# Detector Advisory Committee (DAC)

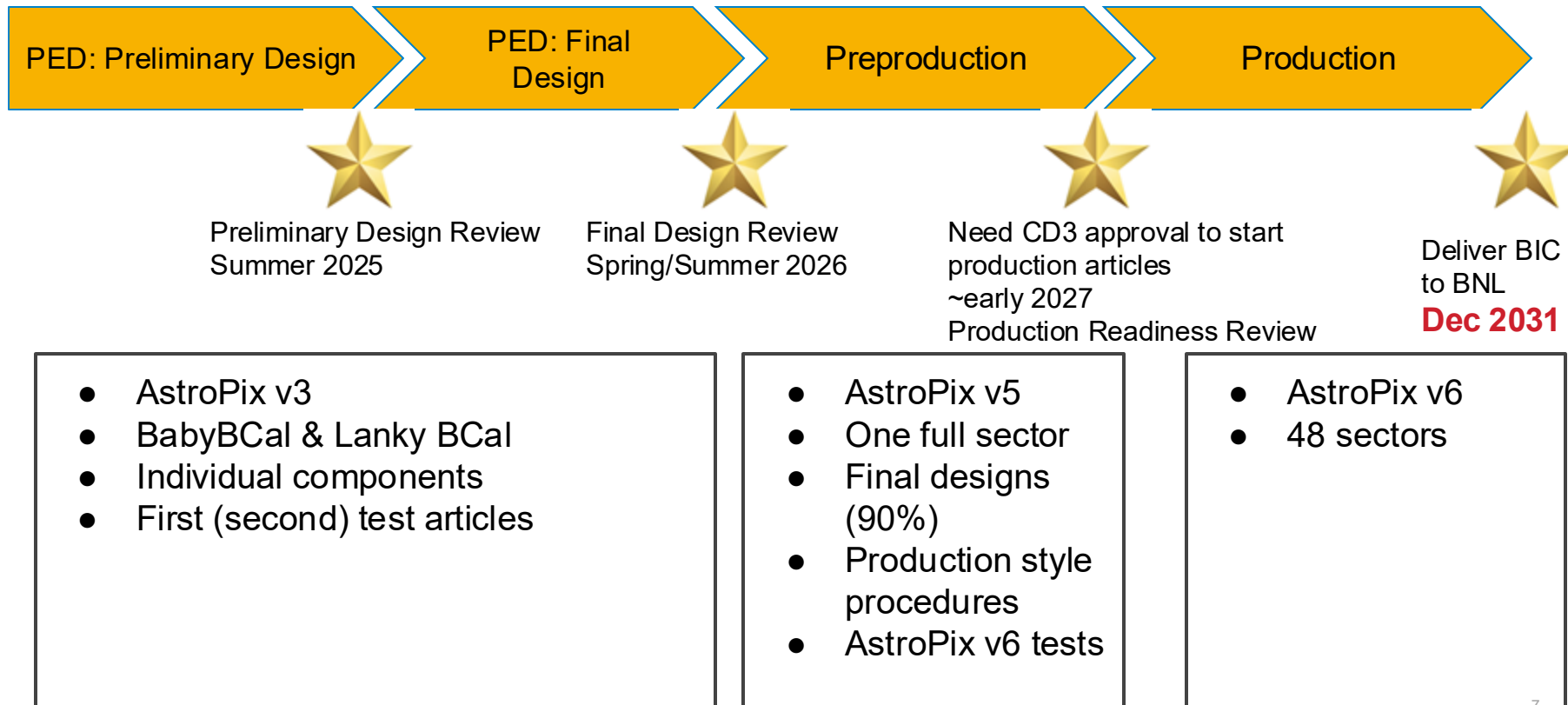


## Review held June 11-13

- Review indicio
- BIC slides can be found on our drive folder
- Closeout will be held on Friday (Note: review etiquette means listening only)



# BIC Project Phases



# Preliminary Design Review (PDR)



## Late August/September

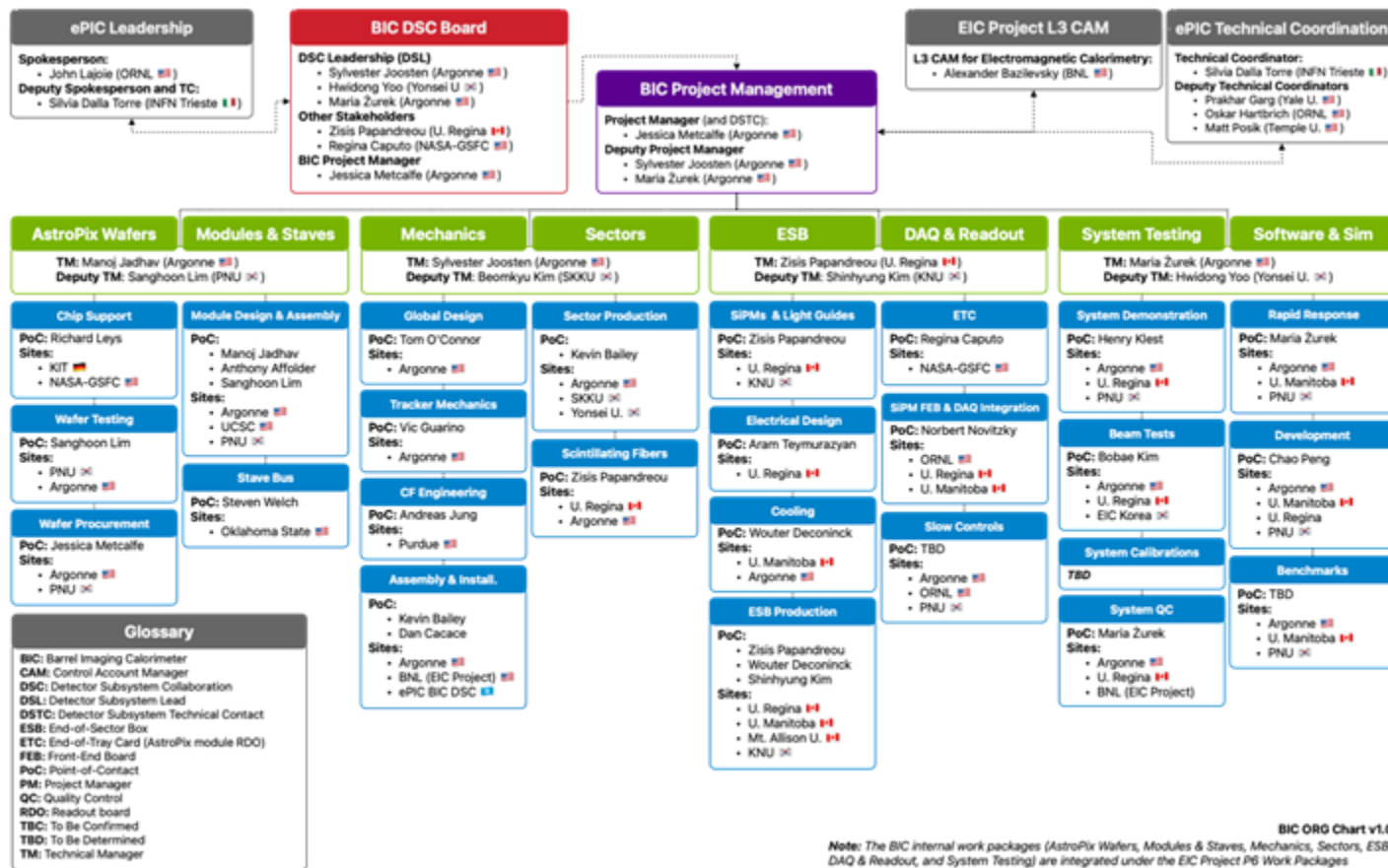
- Scope: preliminary design → 60% of the production design
  - Complete conceptual design implemented in CAD or equivalent
  - Individual test articles that demonstrate key technical challenges
  - Actual test articles that are similar to the production design in most cases
- Dates are being sorted now
  - Proposed Aug 28-29 or any of the first 3 weeks of September
  - Start planning for the earliest possible dates
  - Materials will need to be complete and posted to review committee two weeks ahead → August 15
  - Expect review to be online only
- Preparation
  - Work with project to define an agenda, assign presentations
  - Need inputs from everyone
  - Expect to start late July/early August to compile all materials



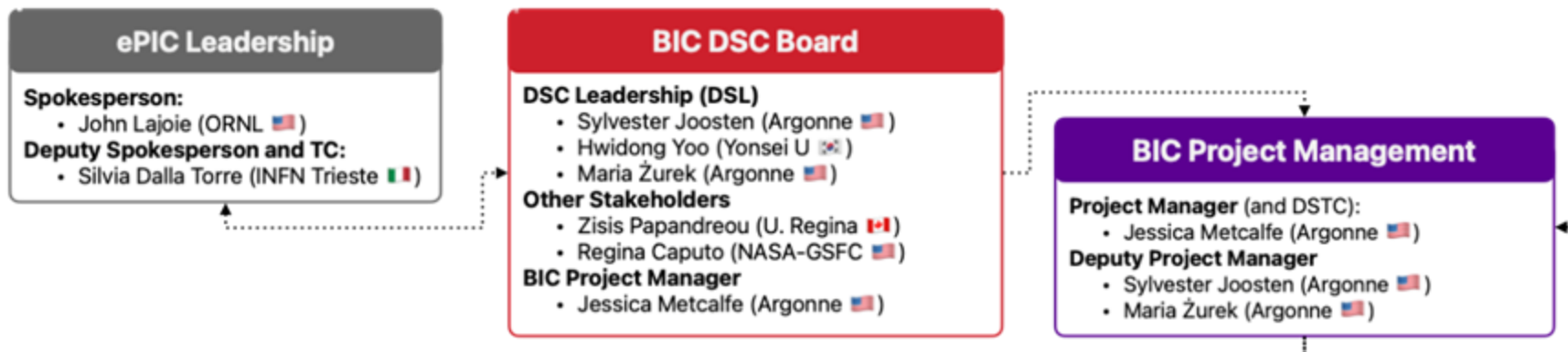
**Questions, Comments, Suggestions?**

# BIC Organization

# BIC Organization Chart



# BIC Organization Chart

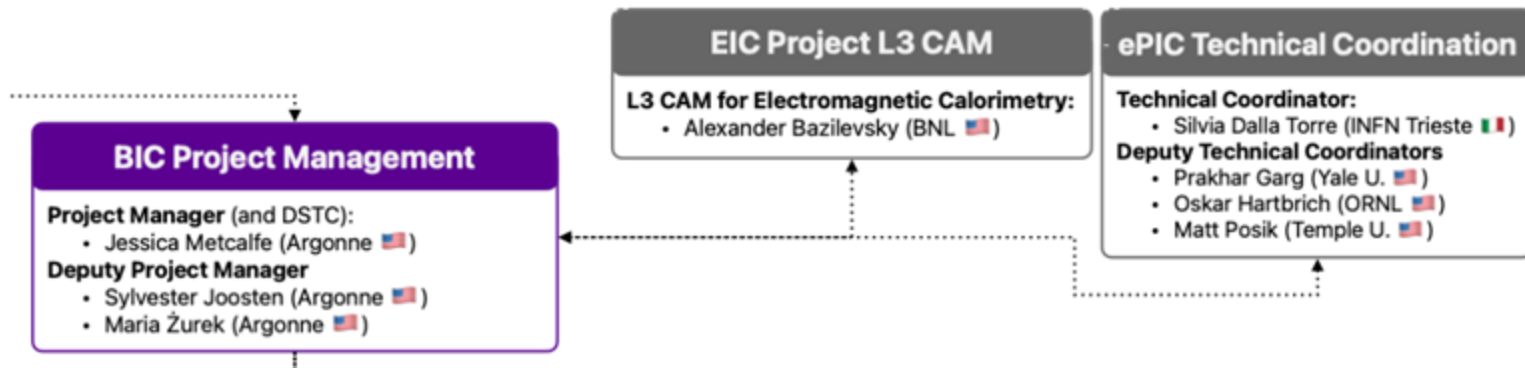


## ePIC Collaboration:

- international user organization
- responsible for community needs, physics performance
- Detector Subsystem Collaboration → Red Team
  - DSL's Detector Subsystem Leads
  - provide oversight to the BIC collaboration
- Detector Subsystem Technical Contact
  - also BIC project manager

Glossary
BIC: Barrel Imaging Calorimeter
CAM: Control Account Manager
DSC: Detector Subsystem Collaboration
DSL: Detector Subsystem Lead
DSTC: Detector Subsystem Technical Contact
ESB: End-of-Sector Box
ETC: End-of-Tray Card (AstroPix module RDO)
FEB: Front-End Board
PoC: Point-of-Contact
PM: Project Manager
QC: Quality Control
RDO: Readout board
TBC: To Be Confirmed
TBD: To Be Determined
TM: Technical Manager

# BIC Organization Chart



## EIC Project:

- DOE funded project
  - accelerator & detector
  - responsible for building/delivering
  - US funds for the project are controlled by the Project
- BIC reports to the EM Calorimeter Control Account Manager (CAM)
  - Institutes receive funds via a contract with Statement of Work (SOW)

Glossary
BIC: Barrel Imaging Calorimeter
CAM: Control Account Manager
DSD: Detector Subsystem Collaboration
DSSL: Detector Subsystem Lead
DSTC: Detector Subsystem Technical Contact
ESB: End-of-Sector Box
ETC: End-of-Tray Card (AstroPix module RDO)
FEB: Front-End Board
PoC: Point-of-Contact
PM: Project Manager
QC: Quality Control
RDO: Readout board
TBC: To Be Confirmed
TBD: To Be Determined
TMI: Technical Manager

# BIC Project Management Team



## BIC Project Management Team



### Purple Team:

- manage and support the BIC community
- deliver the BIC detector

### Green Team Leaders:

- manage a major technical area
- contact for the BIC community in that technical area
- meet key deliverables and milestones within their area

## BIC Management Roles & Responsibilities



# Meeting Schedule



## Green Team or Technical Area Meetings:

### Wafers: Manoj

- Mondays at 4 pm Central—bi-weekly

### Modules & Staves: Manoj

- Mondays at 4 pm Central—bi-weekly

### Mechanics & Sectors: Sylvester

- Fridays at 1 pm Central

### ESB, DAQ, & Readout: Zisis

- Tuesday at 8 am Central—bi-weekly

### System Test: Maria

- Tuesday at 8 am Central—bi-weekly

### Simulations: Maria

- Tuesdays at 2 pm Central

## BIC General Meeting:

- ~Monthly
- Fridays at 8 am Central
- Organized by Jessica, Maria, Sylvester

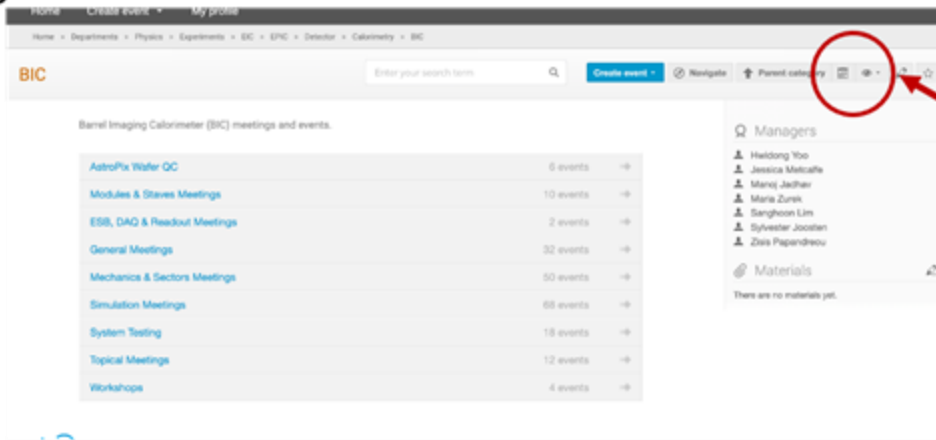
### Weekly Summary:

1. Mondays @ 4pm
2. Tuesdays @ 8am
3. Tuesdays @ 2pm
4. Fridays @ 1pm

# BIC Meeting Indico Calendar

## ■ Indico link

- All meetings can be found on indico
- You can add the meetings to your calendar
  - All of the BIC meetings from the BIC category
  - Or some by going to a sub-category and using the calendar link on that page



Calendar link to add (past) future meetings → automatically updates your calendar as new meetings are added



# Documents

## Zenodo

- ePIC endorsed file management system hosted by CERN
- version controlled
- share with collaboration
- searchable by keywords
- critical to get correct keywords
- epic-eic & bic

## BOX

- BOX folder for sharing technical drawings
- Argonne hosted
- request access permissions to anyone in the Purple Team

## Google Drive

- collaborative documents → shared editing
- presentations for reviews
- reference documents

# Design Document Review/Approval



- Review key designs before fabrication
- Review/Approval Log

- 1) Make the design available on the google drive and fill in description, links, and deadline in the log. Define required approvers.
- 2) Present at a relevant meeting that is announced 1 week in advance (prefer if documents ready in advance, but not required)
- 3) Email BIC list and required approvers with request to review by deadline (minimum 1 week after presentation). Provide links to documents, presentation, comment collection document
- 4) Respond to comments
- 5) Final approval is logged

# Presentation/Paper Review Process



For ALL BIC (or ePIC/EIC) related presentations or paper that will be shared outside the collaboration:

- review process to ensure the quality and consistency of results
- Instructions:
  - submit document via zenodo
  - request approval in zenodo and send an email notification
  - approvers for BIC should include Green Team Leader and/or Purple Team

# Backup

# Reference Documents



- BIC Management Roles & Responsibilities
- Interface Document
- Organization Chart
- Risk Register/RAID log
- Presentation/Paper Approval Instructions
- Design Review/Approval Log