



MREFC Process from a Facilities Perspective

Antarctic Infrastructure Modernization for Science (AIMS)

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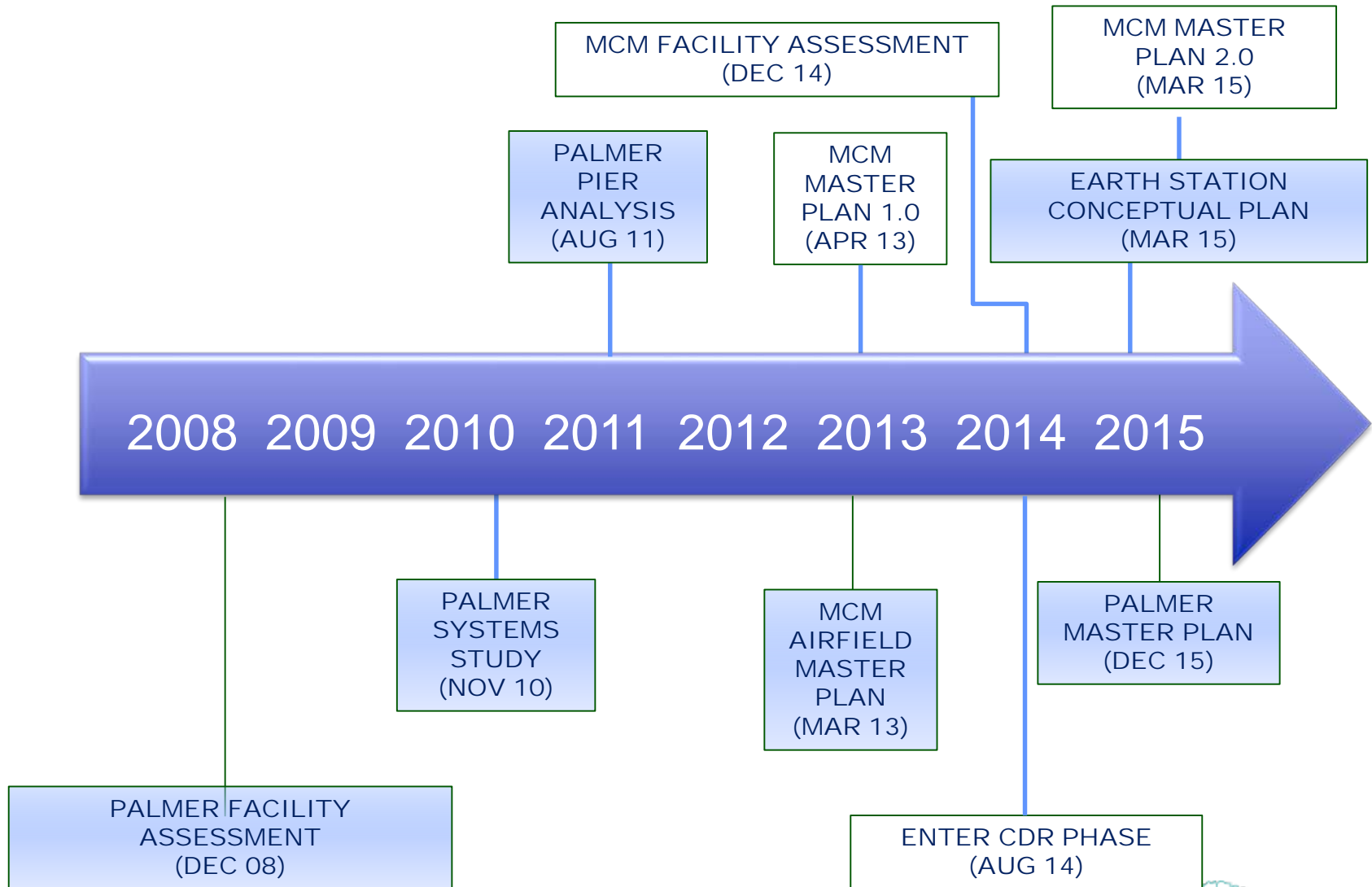
Leidos / Antarctic Support Contract

May 1, 2017

1 pm



How It All Starts – Pre-CDR





CDR – Lessons Learned

Positives:

- Well established processes including Earned Value
- Previous experience existed in house on MREFC projects
 - In lieu of existing experience, the most important resource will be the Large Facilities Manual
 - Contact other programs/projects who have used the process
- Pictures are worth a thousand words



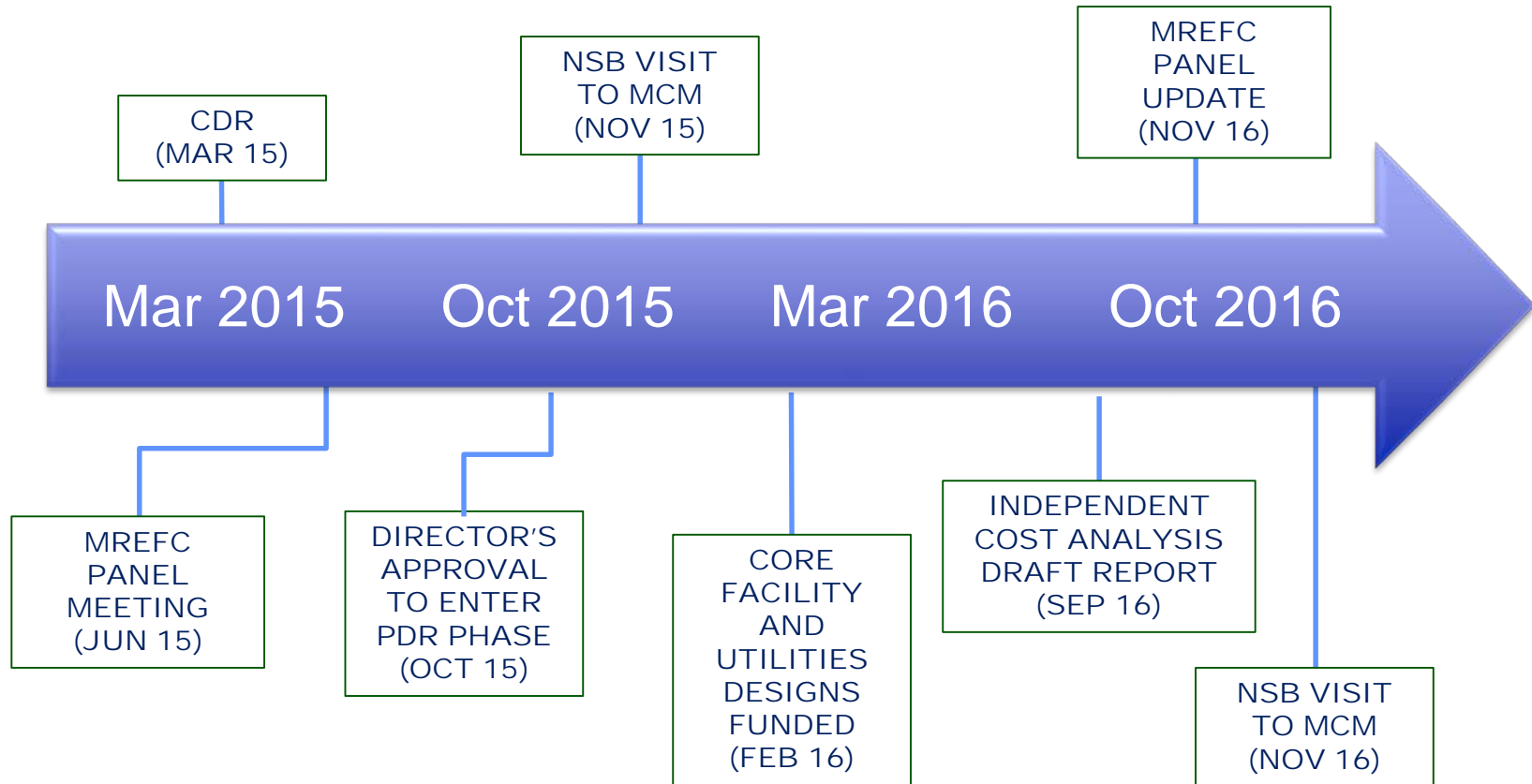


CDR – Lessons Learned (continued)

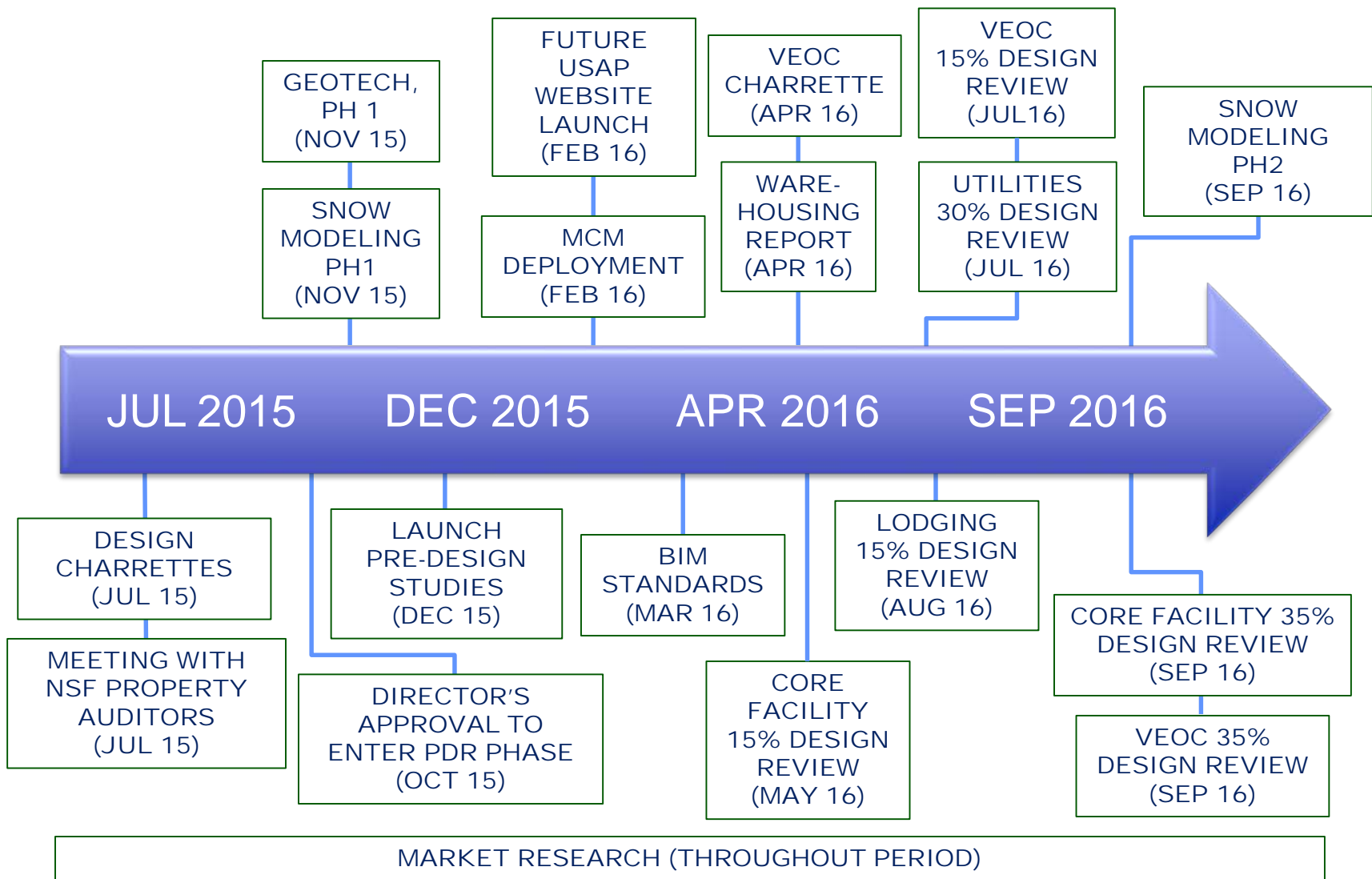
Challenges :

- High Level Scope Requirement Document –
 - Blue Ribbon Panel Report
 - No formal designs – only blocking diagrams
 - Multiple Facilities / Multiple Locations / Multiple Subcontractors
 - Subcontracting Strategy – Design/Build and Design Bid Build
- Only three months to prepare
 - Important to have enough time to properly staff
 - Risk Experts, Technical Writer
- Clear understanding of all MREFC deadlines and informational requirements
 - Leaving enough time for reviews
 - Read Ahead Package deliverable requirements
 - Who makes what decisions/Expect additional questions and clarifications

Post – CDR – NSF Activities



Post – CDR – AIMS Activities





PDR – Lessons Learned

Positives:

- Worked Closely with NSF Project Manager and LFO Representative
 - Questions regarding LFM – there is flexibility based on the project
 - Dry Run presentations
 - Weekly team meetings
- Visuals, Visuals, Visuals
- Understood Evaluation Criteria

Challenges:

- Delayed approval to proceed to PDR (4-5 months later than anticipated)
 - Unable to start design until approval
 - NSF provided a target number
 - Leidos is a FAR based contract – LFM is written more for cooperative agreements
 - Independent Cost Assessment-Extra Resources to answer questions



PDR – Lessons Learned (continued)

Challenges (continued):

Need sufficient time to meet the LFO requirements and schedule

- Our project may have benefited from additional time but because of other NSF priorities we continued on the current schedule
- Timeline from budget submission to start of project
- Difficult to manage LFO review timelines and subcontracting process
- Contingency tied to Risks
 - Risk register is a living document
- Draft LFM – undefined earned value section

Recommendation/Suggestions:

- Training and common understanding of the process