



Information to Support Dedicated Isotope Facilities 2007 Licence Renewal

2007 September 12



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 AECL EACL




Purpose of Presentation

- To further support the application for renewal of the MAPLE and NPF Operating Licences
- Application requests
 - a 47-month licence term to 2011 October 31
 - combining the licences into one DIF licence for eventual inclusion into the CRL Site licence

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Outline

- **Respond to questions from Public Hearing Day One**
 - Organization
 - Operations Oversight
 - Plan and schedule dependencies
 - Power Coefficient of Reactivity (PCR) program
- **Provide an update on progress since Public Hearing Day One**

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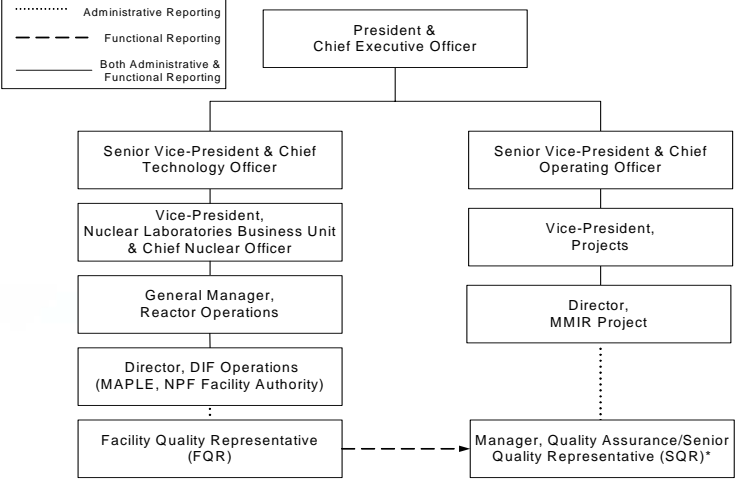
Organization

Legend

..... Administrative Reporting

--- Functional Reporting

— Both Administrative & Functional Reporting



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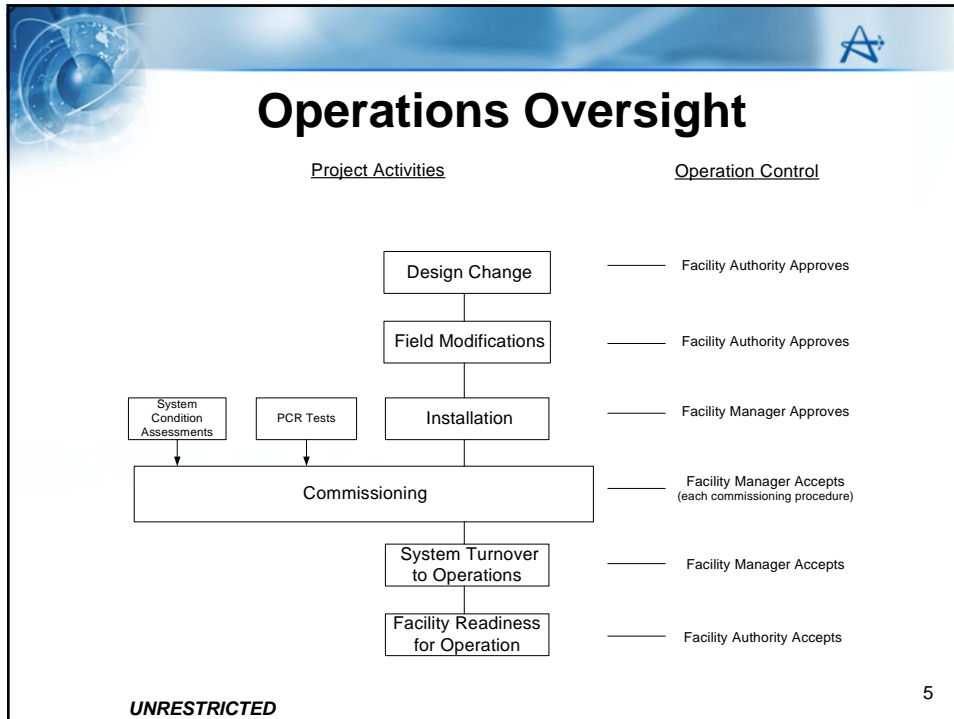
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    CEO[President & Chief Executive Officer]
    SVP_Tech[Senior Vice-President & Chief Technology Officer]
    SVP_Oper[Senior Vice-President & Chief Operating Officer]
    VP_NLBU[Vice-President, Nuclear Laboratories Business Unit & Chief Nuclear Officer]
    VP_Proj[Vice-President, Projects]
    GM_RO[General Manager, Reactor Operations]
    Dir_MMIR[Director, MMIR Project]
    Dir_DIF[Director, DIF Operations (MAPLE, NPF Facility Authority)]
    FQR[Facility Quality Representative (FQR)]
    M_QA[Manager, Quality Assurance/Senior Quality Representative (SQR)*]

    CEO --- SVP_Tech
    CEO --- SVP_Oper
    SVP_Tech --- VP_NLBU
    VP_NLBU --- GM_RO
    GM_RO --- Dir_DIF
    Dir_DIF --- FQR
    SVP_Oper --- VP_Proj
    VP_Proj --- Dir_MMIR
    Dir_MMIR -.- M_QA
    FQR -.- M_QA
    
```

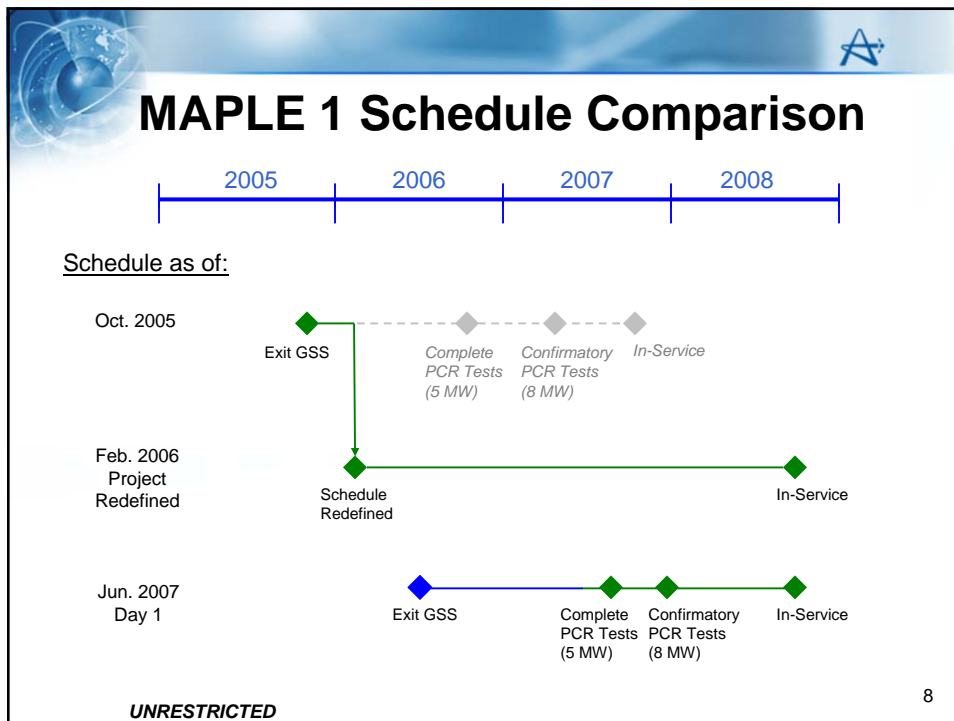
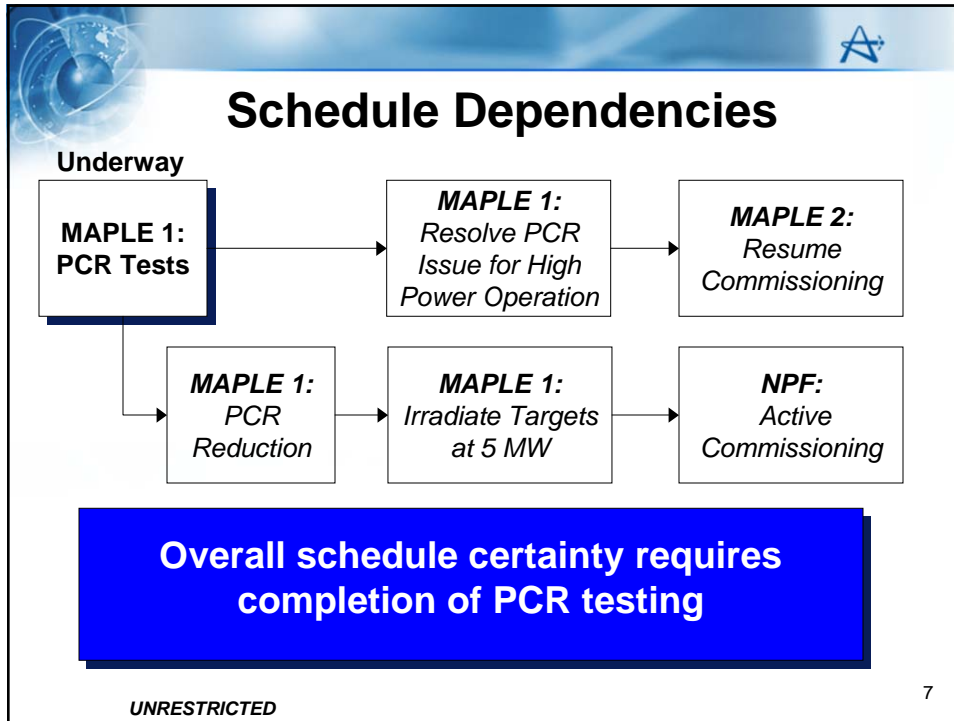
*This position reports functionally to Director, Corporate Standard & CANDU Products and Services QA

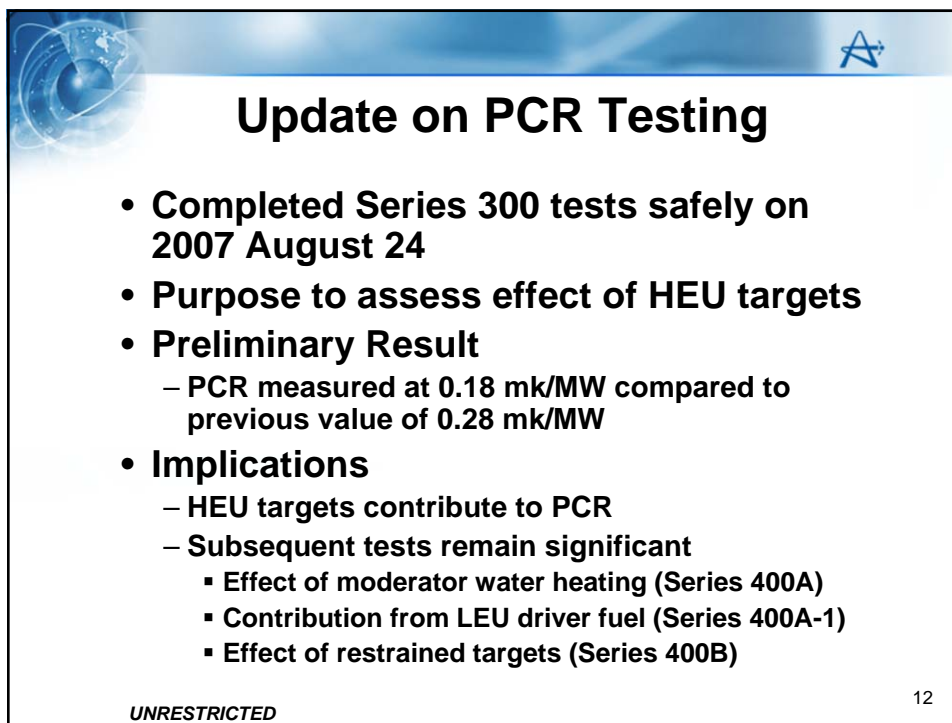
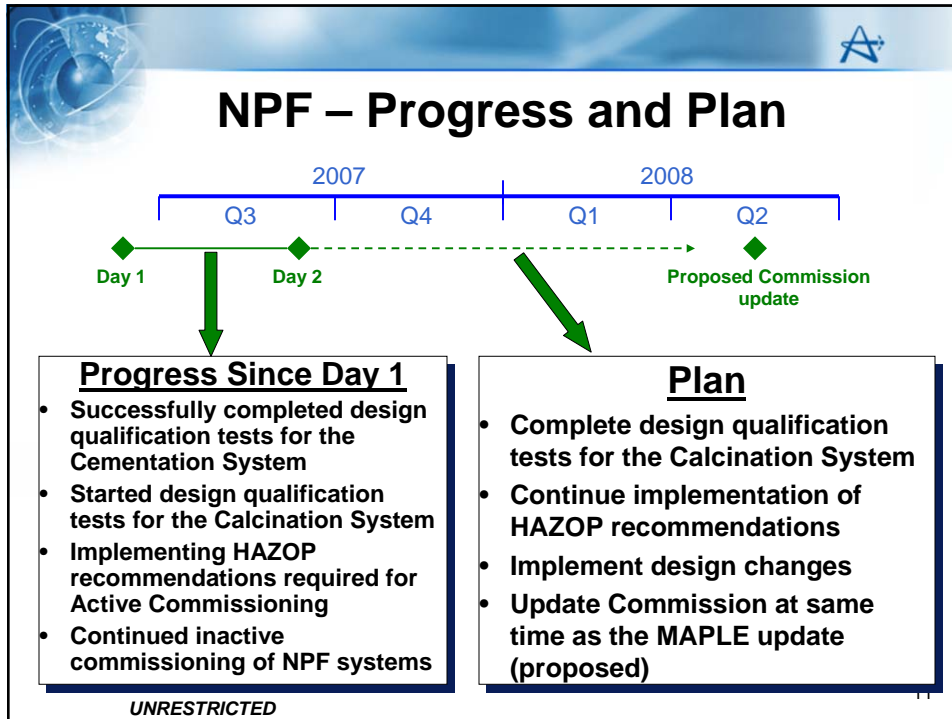
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- Plan**
- **During the proposed 47-month licence period AECL intends to:**
 - Complete the PCR tests and resolve the PCR issue
 - Bring MAPLE 1 & MAPLE 1 Iodine-125 Production Facility into service
 - Bring NPF into service
 - Produce medical isotopes
 - Bring MAPLE 2 into service
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PCR Inputs from External Organizations

- **BNL and INVAP reviews and assessments used as input to PCR Test Plan**
- **INL simulations used to verify AECL work to predict PCR**
 - Input to PCR Test Plan
 - Simulations to support resolution of PCR issue

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Other Progress

- **MAPLE 2 Reactor placed in the Alternate Guaranteed Shutdown State - core defuelled**
- **Responded to the 2007 April CNSC Commissioning Audit:**
 - Prepared an action plan
 - Implementing actions
- **Since the Public Hearing Day One:**
 - Zero Event Free Day Resets (EFDRs) in DIF Operations since 2007 June 22
 - 220 ImpAct reports raised
 - No Lost Time Accidents

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Conclusion


This completes our presentation in support of AECL's application for the 47-month DIF operating licence.


To support this request, AECL has:

- Responded to the questions from the Public Hearing Day One
- Updated the Commission on activities since the Public Hearing Day One
- Completed the Series 300 PCR test
- Continued to operate the MAPLE 1 reactor safely
- Continued to operate the MAPLE 2 reactor safely
- Continued to commission the NPF safely
- Adequately provided for health, safety, security, the environment, and met Canada's international obligations

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