

National Energy
Board



Office national
de l'énergie

Canada

Environmental Follow-up and Monitoring

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Outline

- ▼ Introduction to the NEB
- ▼ Distinction between Follow-up and Monitoring and **why**
- ▼ NEB Experience



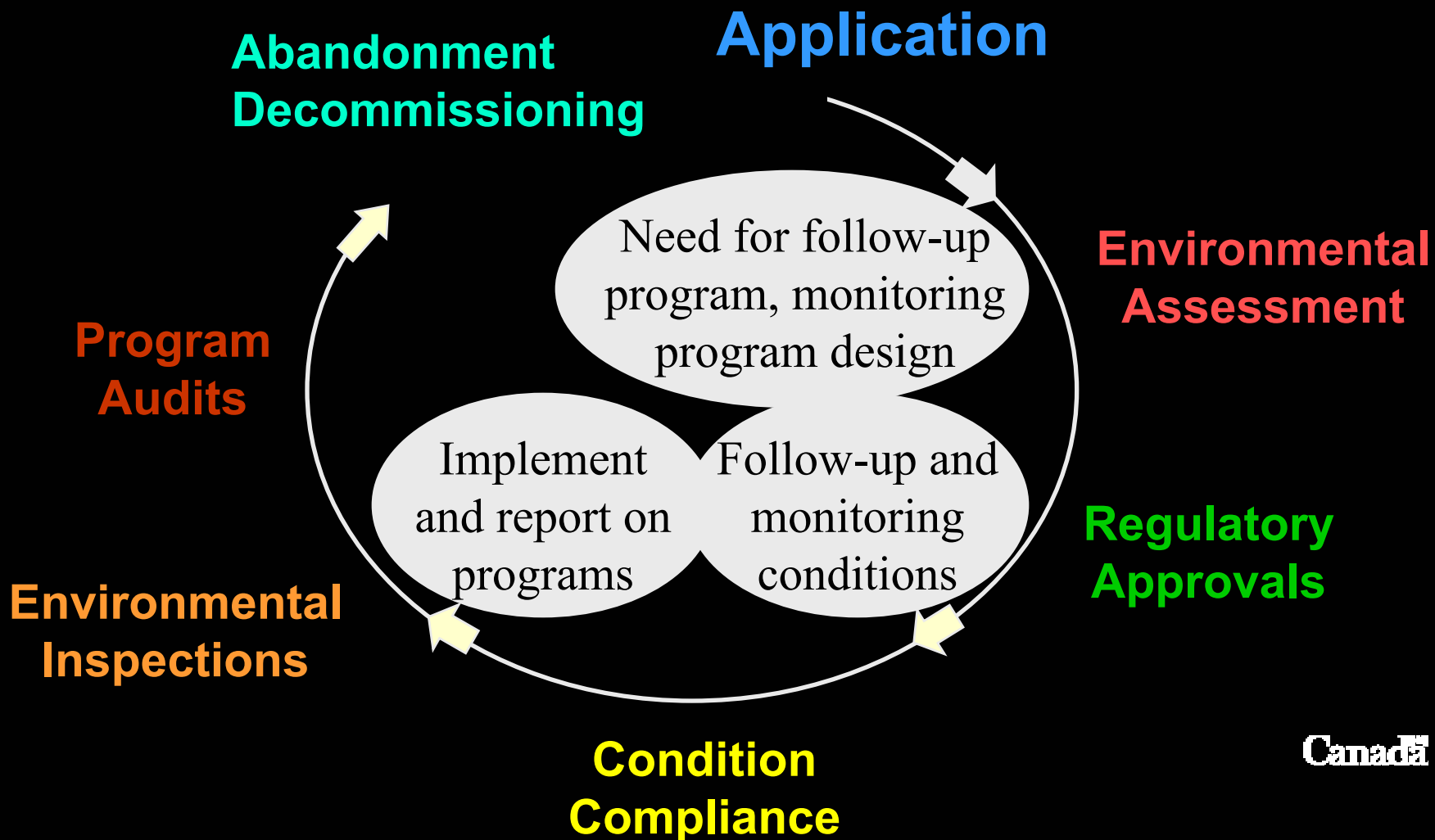


NEB Roles and Responsibilities

The NEB regulates:

- ▼ Interprovincial & international pipelines
- ▼ Pipeline transportation, tolls & tariffs
- ▼ International & designated interprovincial power lines
- ▼ Exports of oil, natural gas & electricity
- ▼ Frontier oil & gas outside of Accord areas

NEB Life Cycle



Distinction Between Terms

Follow-up

- ▼ Issue-specific
- ▼ Verify accuracy of EA predictions
- ▼ Determine effectiveness of mitigation
- ▼ Address unanticipated effects within scope of program

Monitoring

- ▼ Project-wide
- ▼ Does not verify accuracy of EA predictions
- ▼ Monitor effectiveness of mitigation
- ▼ Address unanticipated issues or effects of project

Is Follow-up Required?

- ▼ Public concern
- ▼ Test accuracy of EA predictions
- ▼ New or unproven methods used to predict effects
- ▼ New or unproven technology or mitigation measures
- ▼ Verify mitigation measures were effective or successful
- ▼ New environmental setting for project
- ▼ Limited scientific knowledge

Is Monitoring Required?

- ▼ Regulations require companies to have monitoring programs to protect the environment
- ▼ Post-construction monitoring reports often a condition of approval



NEB Experience

Follow-up programs have been required for:

- ▼ Soil heating effects
- ▼ Access control measures
- ▼ Rare plant mitigation
- ▼ Native prairie reclamation
- ▼ Ord's kangaroo rat
- ▼ Wetlands

Common issues from monitoring reports:

- ▼ Trench subsidence
- ▼ Erosion and slope stability
- ▼ Weeds
- ▼ Poor revegetation success
- ▼ Crop productivity
- ▼ Access control concerns
- ▼ Station noise

Example of Follow-up

North Suffield Pipeline

- ▼ Ord's kangaroo rat (species of special concern)
- ▼ Studied effects on population, evaluated effectiveness of mitigation, recommendations made for future projects that may affect population
- ▼ Results indicate that the mitigation used was effective



Example of Monitoring

- ▼ Identify, track and address environmental issues and concerns
- ▼ Ongoing observation to evaluate success of measures
- ▼ Implement remedial measures as needed
- ▼ Clear accountabilities for monitoring and mitigation





Follow-up and Monitoring Program Results

- ▼ Results used to improve future projects
 - Project design
 - Mitigation techniques
 - Accuracy of EA
- ▼ Guidelines for content of monitoring reports in NEB Filing Manual
- ▼ NEB uses monitoring reports to prioritize inspections
- ▼ Opportunity to improve the availability of results and the communication of key results

Summary

- ▼ Terms used interchangeably causing confusion
- ▼ Distinct but complementary concepts
- ▼ Follow-up is issue-specific
- ▼ Monitoring is project-wide
- ▼ Opportunities to improve sharing of key results
- ▼ Results used to improve future projects

