



Municipality of South Bruce
Community Liaison Committee

May 5, 2016 – 7:00pm
Council Chambers

Nuclear Waste Management Organization (NWMO) Adaptive
Phased Management (APM) Project



Nuclear Waste Management Organization (NWMO)

Adaptive Phased Management (APM) Project

South Bruce Community Liaison Committee (SBCLC) Meeting

May 5, 2016 – 7:00 p.m.

Municipal Office, 21 Gordon Street East, Teeswater

AGENDA

- 1. Call to Order**
- 2. Adoption of Agenda**
- 3. Disclosure of Pecuniary Interest and Nature Thereof**
- 4. Minutes of the Previous Meeting**
 - 4.1. April 7, 2016 SBCLC Regular Meeting**
- 5. Delegations: None**
- 6. NWMO CLC Task List Review**
- 7. Reports**
 - 7.1. NWMO Update – Paul Austin, Relationship Manager, Southern Ontario**
- 8. Education**
 - 8.1 Transportation Technical Work Program – Chris Boyle and Ron Ross**
- 9. Communications: None**
- 10. New Business**
- 11. Next Meeting**

The next meeting of the SBCLC is scheduled for Thursday, June 2, 2016 at 7:00 p.m. (location to be determined).
- 12. Adjournment**



**Nuclear Waste Management Organization (NWMO)
Adaptive Phased Management (APM) Project
Community Liaison Committee (CLC) Meeting**

Thursday, April 7, 2016

MINUTES

The South Bruce Community Liaison Committee met on Thursday, April 7, 2016 at 7:00 p.m. at the Mildmay Carrick Recreation Complex, 24 Vincent Street, Mildmay.

Members Present: Jim Gowland, Chair, Mayor Robert Buckle; Doug Culbert, Vice-Chair, George Miller, Les Nichols, Councillor Margie Bates, Councillor Mark Goetz

Members Absent: Brian Knox, Corbyn Critchfield

NWMO Staff: Paul Austin, Relationship Manager for Southern Ontario, Michelle Dassinger, Digital Communications Program Lead, Derek Wilson Vice-President, Design & Construction, Marie Wilson, Communications;

Municipal Staff: Leanne Martin, Acting CLC Secretary, Kendra Reinhart, Administrator-Treasurer

1. CALL TO ORDER:

Chair Jim Gowland called the meeting to order at 7:00 p.m. and welcomed everyone to the meeting.

2. ADOPTION OF AGENDA:

MOTION CLC-2016-11

Moved by: Les Nicolson

Seconded by: George Miller

Agenda

That the Agenda for the South Bruce Community Liaison Committee Meeting of April 7, 2016 be approved, as presented.

Motion: Carried

3. DISCLOSURE OF PECUNIARY INTEREST AND NATURE THEREOF:

None

4. MINUTES OF THE PREVIOUS MEETING:

MOTION CLC-2016-12

Moved by: Margie Bates

Seconded by: Les Nichols

Minutes

That the Minutes of the South Bruce Community Liaison Committee Meeting held on April 7, 2016, be adopted as printed and circulated.

Motion: Carried

5. **DELEGATIONS:**

None

6. **NWMO TASK LIST REVIEW:**

MOTION CLC-2016-13

Moved by: Doug Culbert

Seconded by: Les Nichols

Task List

That the SBCLC Meeting Task List presented to the April 7, 2016 South Bruce Community Liaison Committee Meeting, be received for information.

Motion: Carried

7. **REPORTS:**

7.1 Municipal Update – Kendra Reinhart, Administrator-Treasurer

MOTION CLC-2016 - 14

Moved by: Margie Bates

Seconded by: Doug Culbert

Report

That the report of the Administrator – Treasurer to provide updates related to the Municipality of South Bruce be received for information.

Motion: Carried

EDUCATION:

8.1 Michelle Dassinger, Digital Communications Program Lead

Michelle Dassinger, Digital Communications Program Lead provided a presentation to the CLC Committee related to the launch of NWMO's new website: www.nwmwo.ca. Ms. Dassinger provided an overview of the various features the new website has to offer for people looking to learn more about the project.

Chair Gowland thanked Ms. Dassinger for attending the meeting.

8.2 Design & Construction – APM Project Description

Derek Wilson Vice-President, Design & Construction provided a presentation to the CLC Committee related to the updated APM Project Description which included the engineered barrier design and the various repository facilities, including the Centre of Expertise. The used fuel container components could be manufactured at manufacturing facility which could potentially be located in the host community or surrounding region depending on interest.

8. **COMMUNICATIONS:**

None

9. NEW BUSINESS:

10.1 UFTP – Falls Fairs

Paul Austin from NWMO addressed the committee to seek interest regarding the UFTP to be scheduled at the local fall fairs again this year. Transportation is a focus of the current phase of assessment, Step 3 Phase 2. By having the display at the fairs would allow individuals who haven't had the chance to learn about the transportation of the Nuclear Waste the opportunity too.

The Committee agreed with having the UFTP at the local fall fairs within South Bruce.

Action Item: The CLC Project Coordinator will assist Paul Austin with coordinating the UFTP at the local fairs.

10.2 Aecom

Andy Keir of Aecom introduced himself and advised the CLC Committee that Aecom will become re-involved at this point in the process. Aecom will be conducting a second phase of community dialogue and will later broaden outreach to surrounding communities. Aecom did the economic modeling for the project at the initial stages.

10. ADJOURNMENT:

MOTION CLC-2016- 15

Moved by George Miller

Seconded by Mark Goetz

Adjournment

That we do now adjourn at 9:05p.m., to meet again on Thursday, May 5, 2016 at 7:00 p.m., or, at the call of the Chair.

Motion: Carried

Chair

Vice-Chair

CLC Secretary

2016 South Bruce CLC Meeting Task List

Meeting Date	Motion Number	Person Responsible	Task	Due	Completed	Comments
June-04-15	n/a	Julie Ireland	Julie Ireland was requested to circulate an email to members of the CLC to determine whether July 14 or 16 would be preferable for the workshop. A reply to NWMO staff should be sent by June 15.		Jun 4 2015	
June-04-15	CLC-2015-95	Julie Ireland	That language options be developed for the next SBCLC meeting for a resolution for consideration by the CLC and municipal Council to develop a potential plan for Phase 2 field studies.		Jul 9 2015	
June-04-15	n/a	Paul Austin	Paul Austin will circulate the draft notice regarding the relocation of the Learn More Community Office from Midway to Teeswater for Julie Ireland to review, and for the NWMO to publish the notice in the coming months.		Aug 7 2015	
June-04-15	CLC-2015-98	Julie Ireland	That Julie Ireland, Project Co-ordinator for the SBCLC, be directed to develop a listing of the meeting dates for local service clubs and community groups for the fall of 2015 and possibly early 2016 to facilitate the attendance of NWMO staff at those meetings. And further, that the subject motion be added to the SBCLC Task List.			Draft provided to Paul, and Julie is investigating meetings dates and times for service groups.
June-04-15	n/a	Leanne Martin	Brian Knox asked the Clerk to provide him with a copy of the municipality's vision, goals, etc.			
June-04-15	n/a	Julie Ireland	Jim Gowland requested that a copy of his "letter to the editor", published in the May 21, 2015 edition of the Midway Crier, and the initial letter from S.A. MacDonald, which his comments were in reply to, both be included on the agenda for the July SBCLC meeting.		Jul 9 2015	
June-04-15		Paul Austin	NWMO staff were requested to coordinate a presentation by Tom Isaacs for the South Bruce Community Liaison Committee. The speaker will be provided the opportunity to speak for one hour on a future agenda. It was requested that the presentation be scheduled for the September meeting, and to advertise for the meeting, including the name of the presenter.			
July-09-15		Julie Ireland/Jim Gowland	Forward the motion regarding the proposed site selection process for Phase 2 studies to Council for approval.		Jul 28 2015	Jim Gowland made a presentation to Council and the resolution was adopted by Council.
Oct 8 2015	CLC-2015-122	Julie Ireland	That nuclear expert, Tom Isaacs, be invited to provide a presentation to the SBCLC at its meeting scheduled for Thursday, November 5, 2015. And further, that Mr. Isaacs be invited to meet informally with members of the South Bruce Community, in a forum to be determined by the Relationship Manager for NWMO and the Project Co-ordinator for the SBCLC.			
Nov 5 2015		Paul Austin	Paul Austin was requested to investigate any programs related to household radon level detection, and radiation safety and awareness that the NWMO may be familiar with, and report back to the next meeting with information about any such programs.			
Nov 5 2015		Julie Ireland	Julie Ireland was requested to circulate to the Committee a listing received from the Huron-Kinloss CLC of independent experts and researchers who could potentially provide presentations to the SBCLC in the future.		Dec 2 2015	
Feb 4 2016		Paul Austin	Send link to Julie on reprocessing to circulate to the committee			
Feb 4 2016		Paul Austin	Update the committee on the status of projects in other communities			
Feb 4 2016		Marie Wilson	Ask about availability of tours at the Western Waste Management Facility in 2016		Apr-16	Group tour scheduled for May 11th
Feb 4 2016	CLC-2016-6	Julie Ireland	Send letter to Mr. Eickmeier regarding his correspondence on the agenda			

Leanne Martin

Subject: FW: agenda items
Attachments: SB CLC - Overview of NWMO's Technical Transportation Program.pptx

From: Austin, Paul [<mailto:paustin@nwmo.ca>]
Sent: April-29-16 1:12 PM
To: Leanne Martin
Subject: agenda items

Hi Leanne,

We have had to postpone the Transportation discussion document presentation, I will come back to you in June or July to see if there is a spot on an agenda for us again then.

So the proposed NWMO items now are:

1. Chris Boyle and Ron Ross- presenting on the Transportation technical program
2. The NWMO update could include:
 - a) Open House update
 - i. reasonably well attended, good opportunity for dialogue with local and neighbouring residents
 - ii. a couple opportunities for future engagement arose, i.e. invitation to briefings
 - b) SB Citizen tour will go head on May 11
 - i. A second tour can be arranged in the future if there is interest
 - c) Website metrics
 - i. I had an action at the last meeting to investigate the NWMO's capacity to track website activity. Our Communications Team is able to track website traffic through Google Analytics. The team is still in the process of informing CLCs and others (via advertising) about the new site, following this, the team expects to turn its attention to the question of what data is available and most beneficial to track and evaluate the website's success over time. If the committee or residents have specific ideas I would be happy to note them and pass them on to the Communication Team.

Thanks,

-Paul

Paul Austin
Relationship Manager
Nuclear Waste Management Organization
(M) 519.386.6711
paustin@nwmo.ca
www.nwmo.ca/



NWMO Transportation Technical Work Program

South Bruce Community Liaison Committee

Ron Ross and Chris Boyle, NWMO

May, 2016

Interim Storage

- Used nuclear fuel is currently safely managed in facilities licensed for interim storage at nuclear reactor sites



Gentilly (Québec)



Point Lepreau (New Brunswick)



Used Fuel Dry Storage at OPG
Western Waste Management Facility
(Ontario)



Used Nuclear Fuel Transportation

- Highly regulated with an excellent safety record
- Robust package designs based on international standards & testing
- Road and rail are currently being studied as possible modes
- APM repository operations assumed to start in 2035
- Transportation timeframe approximately 38 years
 - Average of 2 trucks per day; or
 - Average of 5 rail shipments per month



2

Safety Framework

- Transportation of used nuclear fuel is jointly regulated by the Canadian Nuclear Safety Commission and Transport Canada

Transport Canada

- Transportation of Dangerous Goods Regulations (TDG)
- Sets transport requirements for all 9 classes of dangerous goods

Canadian Nuclear Safety Commission

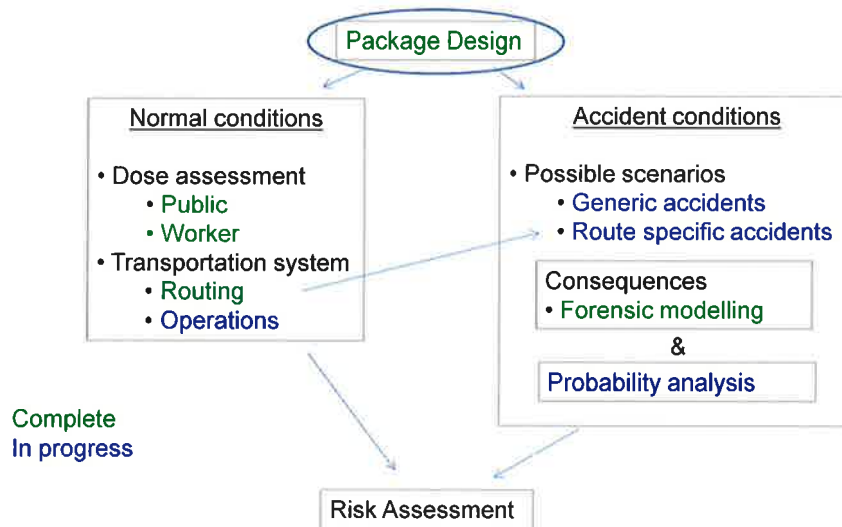
- Covers Class 7 Radioactive Materials
- Sets transport packaging requirements
- Packaging and Transport of Nuclear Substances Regulations (PTNSR)
- Based on IAEA Standards

- IAEA standards are based on years of research and safe international experience:
 - Drop onto unyielding surface
 - Drop onto solid pin
 - 800° C all-engulfing fire
 - Underwater submersion
- Safety is insured by the robust transportation package



3

Transportation Work Program Roadmap

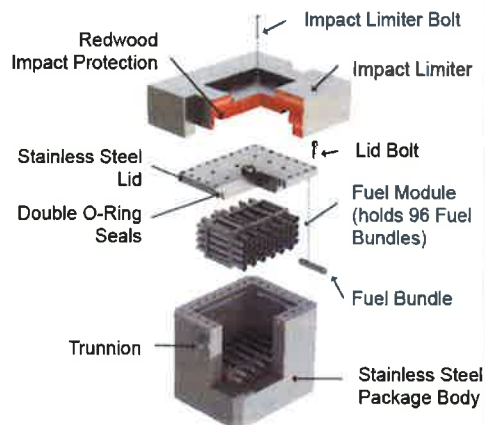


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Used Fuel Transport Package

- **Meets proven Canadian regulations and International standards for design & safety (CNSC and IAEA)**
- **Safety is built into the package** - Certified by CNSC in 2013 as meeting all safety regulations
- **Package can withstand severe accident conditions** without releasing its radioactive contents



- **Unloaded Package Weight: ~ 30 tonnes**
- **Loaded Package Weight: ~ 35 tonnes**

5



APM Transportation Video: Excerpt



6



Transportation Packages

**Used Fuel
Transportation
Package (UFTP)
35 tonnes**

Licensed to transport
OPG style modules



**Dry Storage Container
Transportation
Package (DSC-TP)
100 tonnes**



**Basket Transportation
Package (BTP)
30 tonnes**

Under development for
AECL style baskets

Used at:

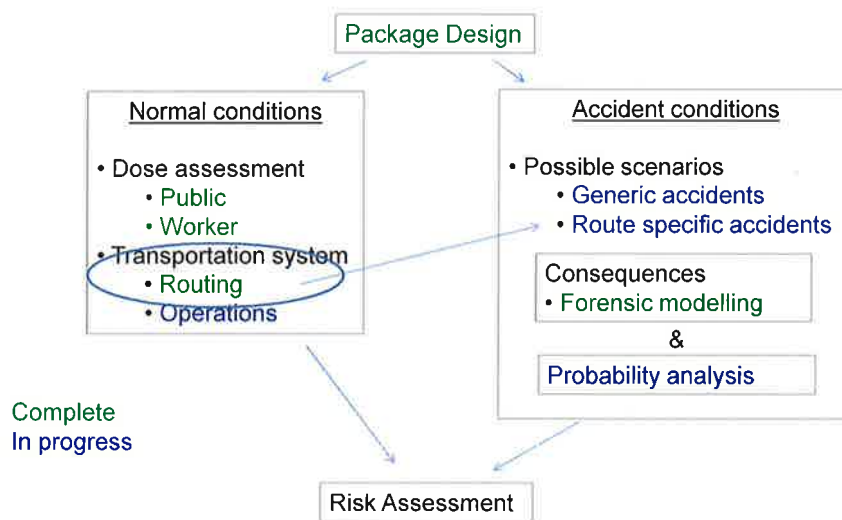
- Gentilly
- Pt. Lepreau
- Chalk River
- Whiteshell



7



Transportation Work Program Roadmap



8

Transportation Assessments

“Can a transportation route be identified or developed for the safe and secure transportation of used nuclear fuel to the site from the locations at which it is stored?”

9

Step 3 Phase 1 Transportation Assessment Approach

- Transportation assessments contain two major components:
 - 1) A description of the regulatory oversight, including how the requirements are being met
 - 2) A desktop analysis of transportation logistics assuming available transport infrastructure

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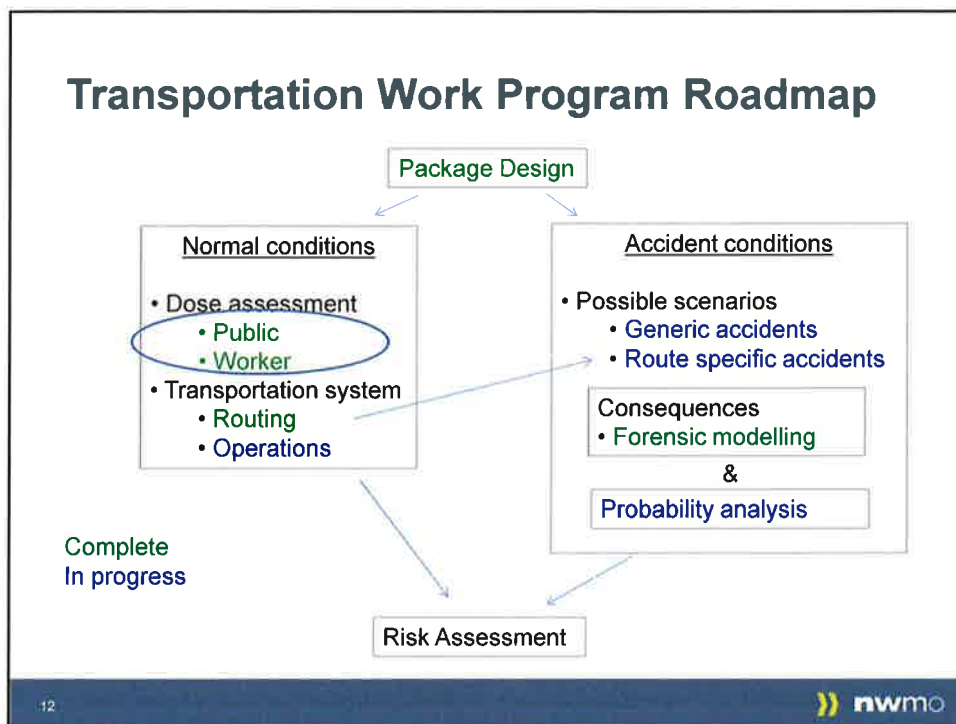


Step 3 Phase 1 Transportation Assessment Findings

- Assessments did not identify a preferred mode or route, or commit to specific operational details related to a future transportation system
- Such activities will be addressed in future dialogue with federal, provincial, and local authorities, and communities along the potential transportation routes as a large group with a shared interest
- Step 3 Phase 1 Preliminary Assessments found that the repository would be accessible by truck and railroad using existing roadways and railways.
 - It is assumed the necessary connecting road, railway, and intermodal infrastructure would be constructed, thereby providing access from existing transportation infrastructure to the repository.
 - Improvements, if required, to the transportation and intermodal infrastructure would be reviewed in detail in Phase 2 studies, should the community continue in the site selection process.

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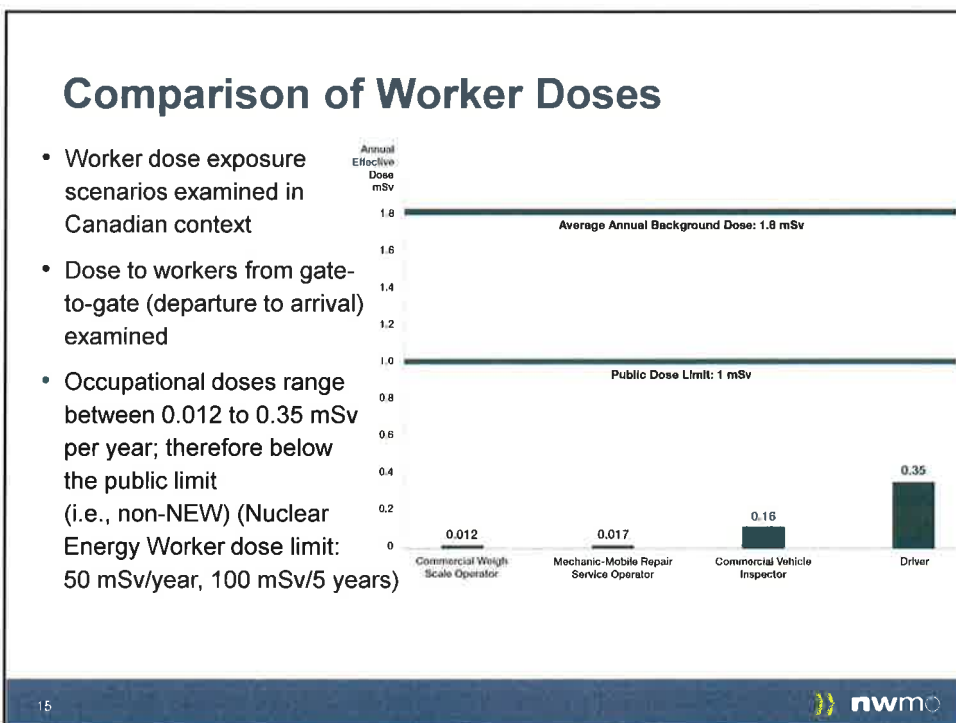
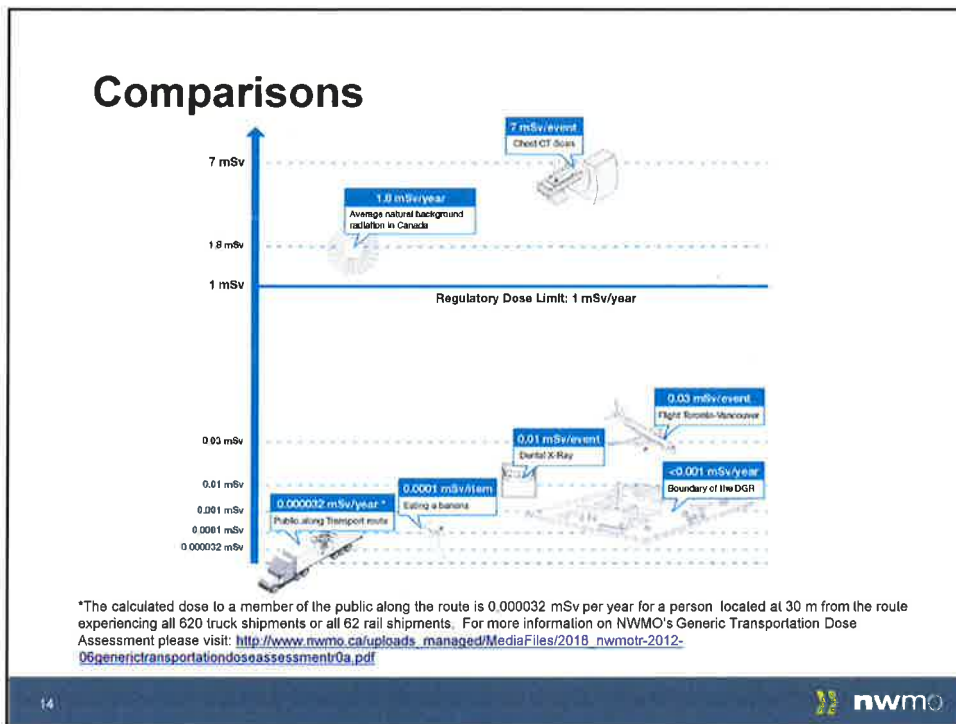


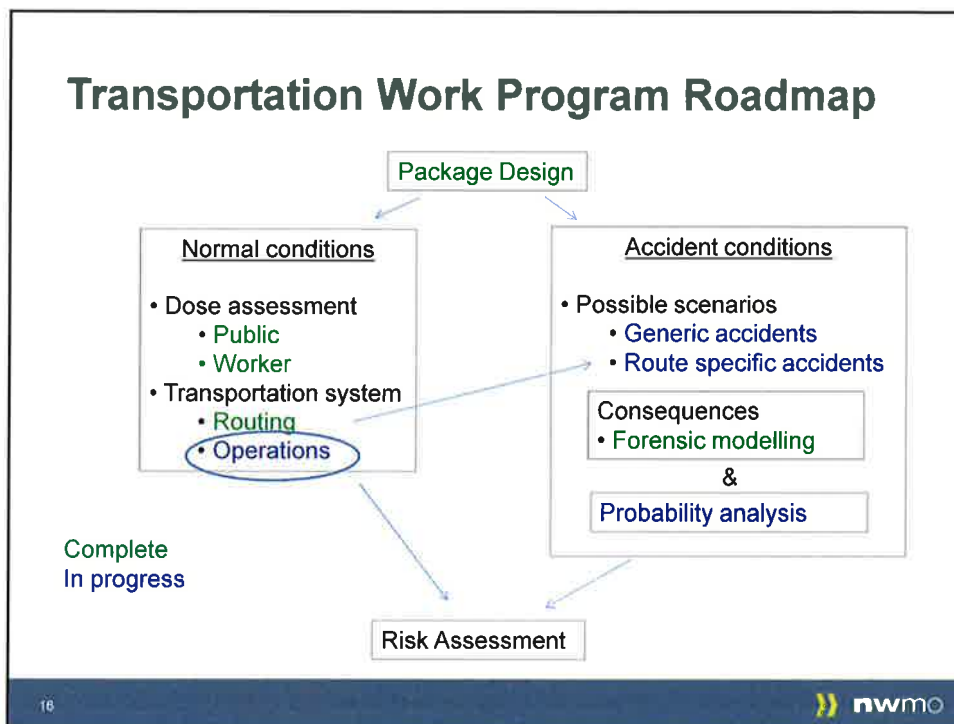


Generic Transportation Dose Assessment

- The NWMO prepared a generic radiological dose study that looked at:
 - residents along the transport route
 - persons sharing the transport route
 - persons sharing rest stops
 - Worker dose

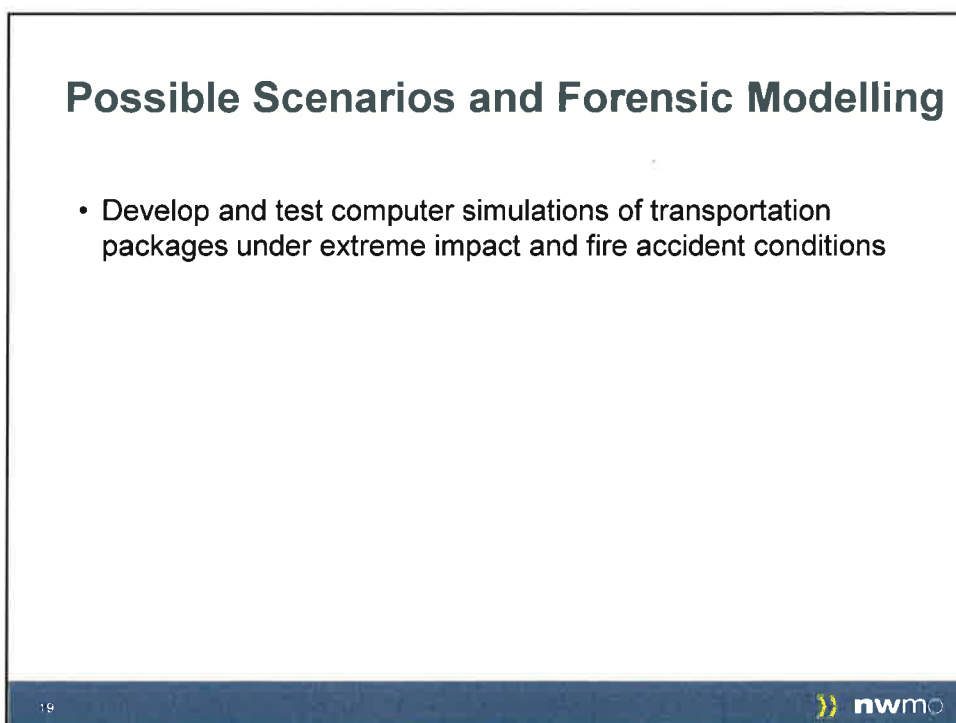
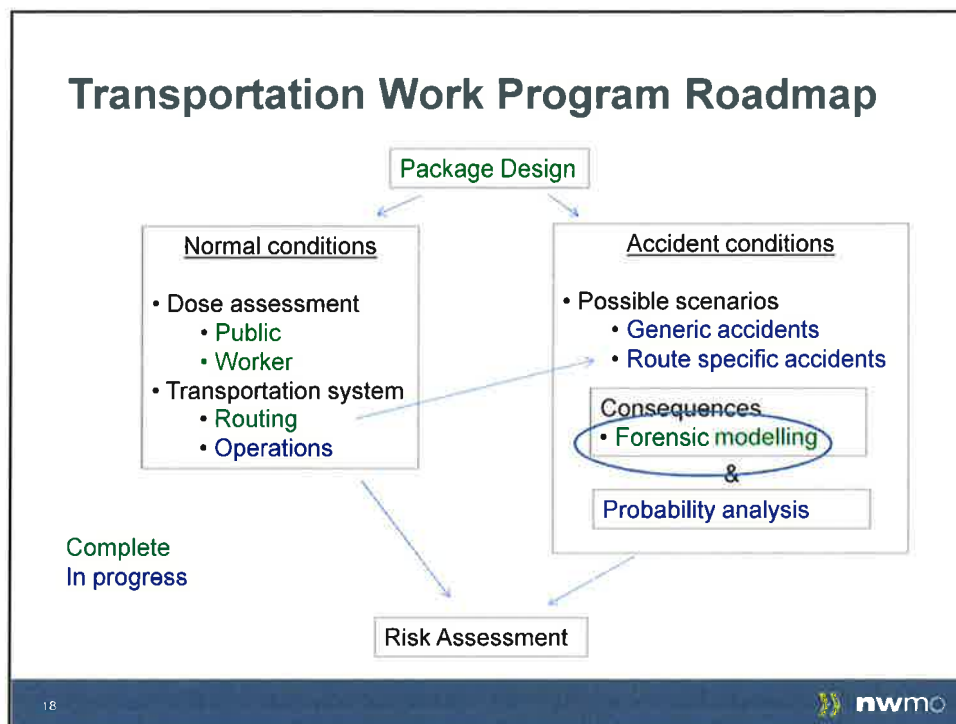
The study concludes that dose to workers and the public during various transport scenarios was significantly below the CNSC regulatory limit of 1 mSv / year





Operations

- Complete operational concepts plan for road and rail transportation from all seven points of origin to each of the Phase 2 siting communities
- Complete report on relative technical merits for road and rail transportation from all seven points of origin to each of the Phase 2 siting communities



Fire Simulation Modelling

