

NUCLEAR WAST MANAGEMENT ORGANIZATION SOCIÉTÉ DE GESTION DES DÉCHETS NUCLÉAIRES

Understanding The Choices: An Overview of the Work of Canada's Nuclear Waste Management Organization

\%P∩ር⊳ጚ^c <▷⁵ጋቦ⁵ժ°ഛ^c ላናፈል^c ል፴ል^c ₺ጋኑትቈበቮ∿ቦ^c R. Anthony Hodge, ℅⊳ትLት^LLሊ⁵, NWMO</mark>ժ°Ժ

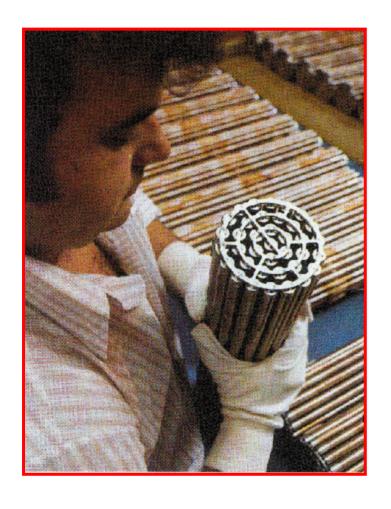
Presented to Pauktuutit – Inuit Women's Association R. Anthony Hodge, Senior Advisor, NWMO

م^ال کرد 8 2004, کاک

Monday, 8 November 2004, Ottawa

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Fuel Bundle and Uranium Pellet





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Water Pool Storage of Used Nuclear Fuel



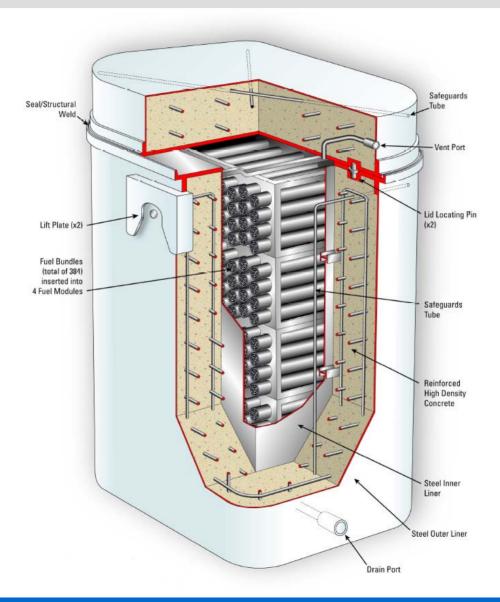
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 ϷʹͼʹͼϷϽϲʹϲʹͼϗʹͼʹϽσ σιμίνιστο
 Stored in water pools in reactor buildings for cooling and shielding
- ΔL¹⁶ Ͻ¹⁶dΔィL²ል⁶ ዺ¹⁵な¹」。 15σ
 20ゅ ▷¹L¹⁶d∩σ▷ροντ²ω¹⁶>¹⁶
 Water pool capacity 15 to 20 years of reactor production

۸۵۵۰۲ نه و ۱۵۵ م مهرم مه

Pickering Waste Management Facility



Dry Storage Container



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The Nuclear Fuel Waste Act (NFWA)

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- ❖ ໑ʰ୯ძా¬ԻԿ, AECLປ ໑ຯຯ໐ຓຩຉຓຩ, ຂວັນ ເພື່ອພາດ ເພື

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The NWMO Study

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A minimum of three technical approaches to be studied:

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- ຼ ፲፱፻፵፫ ፲ ፲፱፻፵፫ ፲፱፻፵፫ Storage at nuclear reactor sites
- ๒ก๙๒๖๒ ๖๛๘๙๛๛ Centralized storage, either above or below ground
- NWMOd^c የPΓና2△ປ°๔๓৯^c ላ/∿ቦ°σ ላጋ2°๔ና৮%ጋσ (ሥነጋ ላ/∿ቦ°σ ለነፊ৮%በЈ ላጋ%C>ປ°๔ና৮%ጋσ) NWMO can also study other approaches
- ❖ CLΔ°σ ላ⁵CΔ⁵ጚለሊኑ▷ጚ°ҩ∿ጋσ ℉ΓንΔ∩°ጔՐ° ΔLΔՐላኄ∿>°: For each management approach, the study must:
 - Φ°CΔ'+∀P+°a'b)σ PσbbcN4'7L+σ ΦDΔ°aPNcNaNc
 Provide detailed descriptions of technical methods
 - ΔͽϞσ, ΔͽϞλϷϞσ, ΡͼϷͰϲϷϧ<ʹϲϭϭϤ ΔϞͰͿͰϧϧ϶Ͻͼ ΔϧϞϹϷͼϧϧϽϭ, ϭͼϹͼͼϧϽϭ ϭͰͿͻ ϭͿͿͰϷͼ϶ϧϧϽϭ ͰϧϧϭͼͺϹϭͼϤ τλοσίς Δϧ϶Ͻϭ Consider ethical, social, and economic implications while taking into account benefits, risks & costs over the short and long term
 - Provide a detailed Implementation plan

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NWMO Mission Statement

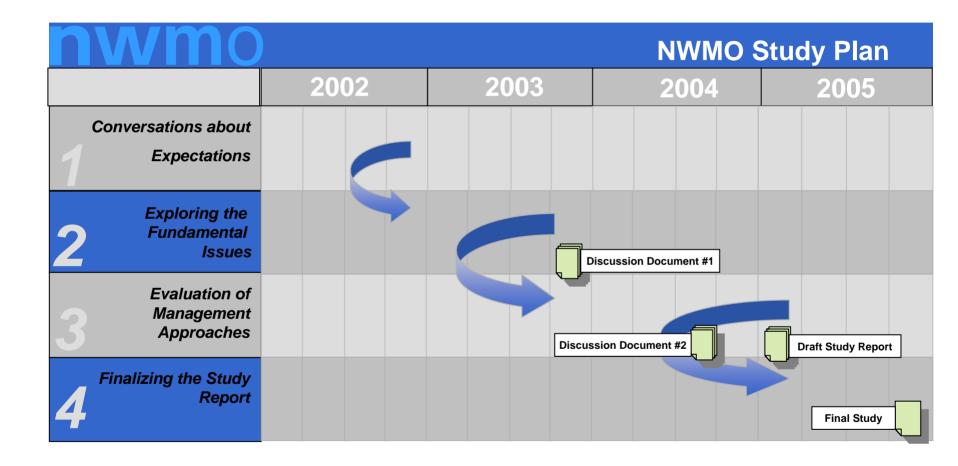
baccpa bonbobs on bacc of Jeach of Jeach of Lord of Lord of the Lord of Canada's used nuclear fuel that is:

- ❖ దపె⁄ాంచు ఉట్టుంది, socially acceptable,
- ❖ ∧いけっ しーりつつ、technically sound、
- ❖ P௳▷♭┌▷∿<゚┌◁♂`」 ᇈ└L७⊃° economically feasible.

Management Approach

- ሉ ለህታ™በJ^c Δლ⁰ሀረሊታ▷ጚ™ Δლ⁰ሀረሊታ▷ጚ느ኌዮጵ A particular technical method or sequence of methods

NWMO Study Plan & Milestone Documents



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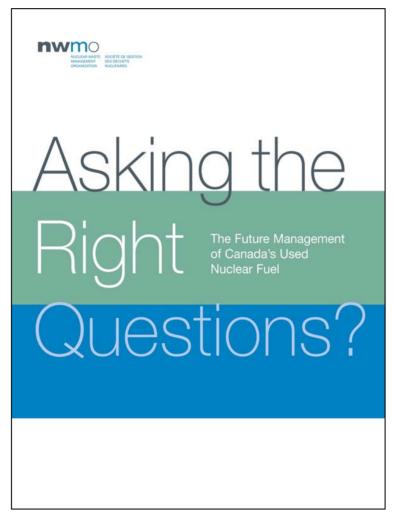
Discussion Document 1: Asking The Right Questions

Δ⊆▷σ⁰σ⁰ Participation

っている。 トターートトトレイ Aboriginal Values

∆∠L^c∩⊲^sσ^{s₀} Ethics

b≺√⊳L√Γ Δ⊂°σ√√σ√b√σ Continuous Learning



∩\∟< 2003 DECEMBER

√° σ√° C∆c√c√σ

Human Health

Padfcd%<cdayl 40%%Cd% Economic Viability

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Technical Adequacy

baCΓρα)ΥΡΓιΡυμώνουρ

Dialogue with Canadians

ρ⁶ძጋΔ⁶α^c Δ/Lቦታ⁶ν⁶σ %ኦት\Δσ⁶ Public Attitude Research

∆∠Lʿ∩⊲⊾⊲ʻbʻʻσʻ́⅃ b∩L≻ʿ Roundtable on Ethics _o_%%b?L√σ ⟨P≻%b∆∩⟨∩ペ%σ% %b>↑⟨√%\%%%~%σ√o Aboriginal Engagement & Consultations

₽⁵ძጋ∆°ዺኄ >σ⁵ൎb⊏ላሊኖኑር∿Ր፡ Public Submissions

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NWMO Website

Framework

% Assessment Team

baCΓ Δ⊅Δ°a′σ ⊳%%∩%'σ% National Citizens' Dialogue 「CDALAGI」

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Scientific &

Technical

Experts

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▼ Regional/National Dialogues

▼ Dialogues

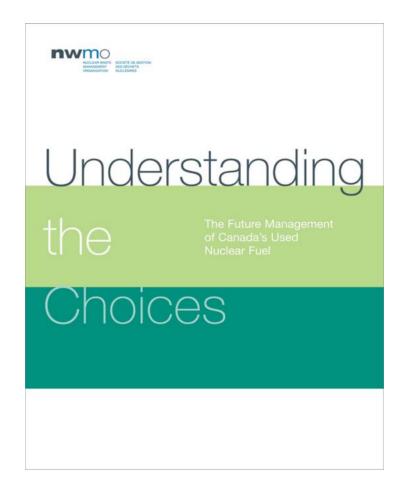
▼ Dialogues

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Discussion Document 2: *Understanding the Choices*



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ชออรุง วิชออยุง Assessment Framework

Based on the views of citizens and experts, the emerging framework for assessing the management approaches includes:

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 ・ イペトトーイ・セーィー・
 ・ 人ペトトーイ・セーィー・
 ・ Adaptability

• የኦժቄፌናበላናዎቴ & ኣቴዮኑናበላናዎናጋ Accountability & Transparency

Δ_Dσ'b%ncncnd'σ% Inclusion

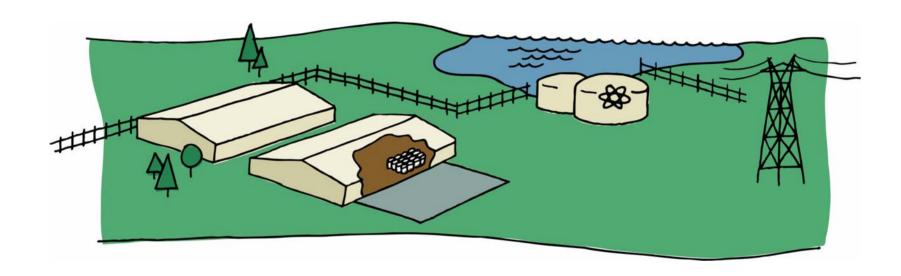
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 Respect for people & cultures
- Δၨቃረፕ Δిላጋረናበላናታ Respect for life
- Δ⁶b⁶DΔσςασ⁶ Justice
- ላንትሶካርበርበላናውና Fairness

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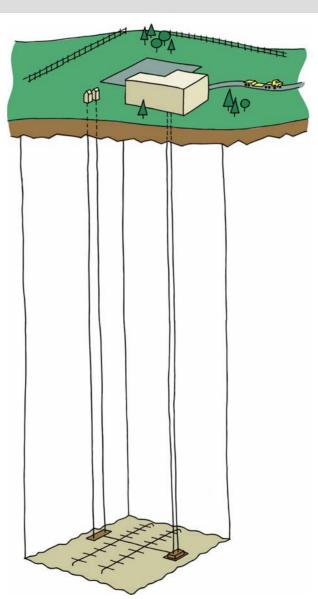
Objectives

- ላኑትሶካር በርበረ ነው Fairness
- PbdDΔ°α^c 'd°σσΦ°CΔσσ°Γ^c Public Health & Safety
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- Δ%baΔ৮%በσ d°C¹a%Dbd%በ°CΔcσ%
 Worker Health
 Safety
- የፌኦ৮-ኦንበቴንኄፌናበላናታቴ Economic Viability
- ຼຼຼລ ແລ້ວ የພາຍ Well-being
- ለግቦበተዋወናበላናታ
 Adaptability

Technical Method: Storage at Reactor Sites

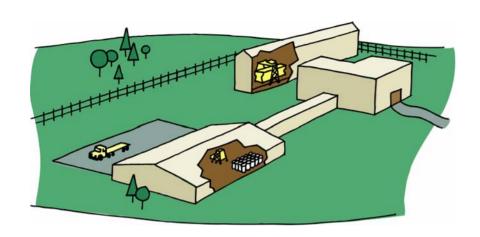


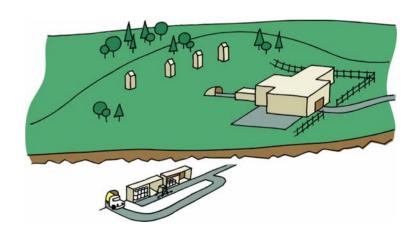
Technical Method: Deep Geological Disposal or Repository



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Technical Method: Centralized Storage





לכ אכת שישית **Remaining Milestones**

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Choosing A Way Forward (Draft Final Report)

- ❖ ለ'bィ▷▸≻Վ′ ፈለረረፈና ታንፈኈር▷ፈ°ፈኈጋታ ላኑ≻Ր°∿Րናጋታ 'የΓናንΔረLታ∿Ր°ታ Includes NWMO's completed assessment of the options
- ፌ ፌጋፌ∆ፕժና ፟፟ዾዾኦሮዾኁል▷ኖ⁵ጋራ ላል⁵ጋፕረLዾፕሮና (LΔ°ഛ⁻೨ ላጋሮჼነበናበራላፕሮፕ) <ፕፌኦበራ Specifies Economic Regions and implementation plans for each approach</p>
- ❖ ∖ኈዮና∩▸Ძ୯▷Ძ৫ NWMO'ժጌ ၨ⊳⊅୯⊳ᲫԺ ላጋርናժ৮८ ላ∿Րጌ Presents NWMO's Draft Recommendation on an approach

__o<"\cdot 15, 2005: By November 15, 2005:

Choosing A Way Forward (Final Report to Government)

- ሉ ለቴ/▷ነትላና ፈለረጋፈና ዮჀ/୮୯୮ ላጋሮ/ፈትሮላዮዮჾ, ▷ቴ▷/⁵\ቴ′¿በና ፈለረጋፈቴ ▷ቴ▷ነትናላ∆Ბ▷ላና
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 comments from NWMO Advisory Council and summary of comments from public consultations
- ❖ __a_「▷ᢗ⊂へトッd゚σ 「σԿᢗ▷ᢣ⅃ˤ ԿԿዮՈር▷ゼˤ ጋԿレッԿ⊂◁ჀႮ゚ᆜ Submitted to _{Page 18} Minister of Natural Resources Canada and made public