

**Point Lepreau
Nuclear Off-Site
Emergency Plan
Volume I
(Policy)**

Department of Public Safety
31 March 2016

Volume I - Policy

Foreword

The Point Lepreau Generating Station (PLGS) has operated safely and efficiently for over 30 years. Since its construction, the emergency program at PLGS has been governed by two principle plans:

a. the *On-Site Plan* – this document is specific to NB Power, and details procedures to be followed by plant staff involving an emergency confined to the facility, and not posing a danger to the general public; and

b. the *Off-Site Plan* – this is a Government of New Brunswick (GNB) document, held by the New Brunswick Emergency Measures Organization. This plan details procedures to be followed for an emergency incident at PLGS which would pose danger to the general public, and thus would require a coordinated multi-agency response. This plan would require response activities from a number of GNB departments, as well as external supporting agencies.

While the risk to life or the environment from an accidental major release of radionuclides, or other industrial accident, is remote, it is in the interest of the public to be prepared to respond, by having in place effective emergency plans to deal with such events.

Volume I of the *Off-Site* plan contains the basic information, detailed responsibilities, and immediate actions required to safeguard the public and the environment.

Volume II, issued on a “need to know” basis, contains the specific responses which will be carried out by various agencies to deal with the emergency.

The Point Lepreau Nuclear Off-Site Emergency Plan will be reviewed and revised on a yearly basis to reflect changes in technology and assigned emergency management responsibilities.

This plan will be implemented on the authority of the Director of the New Brunswick Emergency Measures Organization.

G.R. MacCallum
Director

New Brunswick Emergency Measures Organization

Authority

The plan is agreed to and approved by: (Insert Signatures)

Record of Amendments

Amendment No.	Amendment Date	Amended By	Date
001	16 August 2012	R. Shepard & M. Michaud	30 August 2012
002	7 December 2012	R. Shepard & M. Michaud	13 December 2012
003	21 February 2013	R. Shepard & M. Michaud	26 February 2013
004	30 May 2013	R. Shepard & M. Michaud	30 May 2013
005	24 June 2013	R. Shepard & M. Michaud	24 June 2013
006	26 June 2013	R. Shepard & M. Michaud	26 June 2013
007	3 July 2013	R. Shepard & M. Michaud	3 July 2013
008	20 January 2014	R. Shepard & M. Michaud	30 January 2014
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010	19 February 2014	R. Shepard	19 February 2014
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013	3 June 2014	R. Shepard	3 June 2014
014	5 September 2014	R. Shepard	5 September 2014
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021	24 February 2015	R. Shepard	24 February 2015
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023	2 March 2015	R. Shepard & C Hackett	2 March 2015
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Department of Education & Early Childhood Development

Department of Public Safety – Crime Prevention & Policing Standards Branch

Point Lepreau Warden Service

Concept of Operations

In emergency situations in New Brunswick, whether man-made or created by natural phenomena, response is provided for in the Provincial Emergency Measures Plan (Provincial All-Hazards Plan).

Emergency Management Authorities

Initially, operations are conducted by the relevant Regional Emergency Action Committee (REAC), supported by the Provincial Emergency Action Committee (PEAC) located at the headquarters of the New Brunswick Emergency Measures Organization.

Under the NB Emergency Measures Act, municipalities are responsible for establishing their own emergency response plan, but can call upon the REAC or PEAC for support when their own resources are not equal to the demands of the situation. In the specific case of the Point Lepreau Nuclear Generating Station, the adjacent communities are not municipalities but are unincorporated areas; the province must therefore take an active role in the management of the local emergency response.

Nuclear Control Group

Because of the nature of the hazards presented by radioactive material, this plan establishes a Nuclear Control Group, hereafter known as the Control Group. The Control Group comprises all the members of the PEAC and representatives of those other agencies with expertise or a role in a nuclear emergency response.

The Control Group will assume the control and direction of emergency operations in the event of a radiation emergency at the Point Lepreau Nuclear Generating Station, where there may be danger to the general public.

Nuclear Control Group Membership

Details of Control Group membership are provided in Volume II Procedures, Tab A – Control Group, Annex A – Nuclear Control Group Representation.

General

This plan delineates the responsibilities of, and immediate action to be taken by, various agencies in the event of an emergency at the Point Lepreau Nuclear Generating Station, in which Off-Site Emergency Response is necessary.

Two types of emergencies are foreseen:

Type A - emergencies NOT presenting danger to the general public, and which can normally be handled by on-site resources, and

Type B – emergencies presenting danger to the general public.

NB EMO will not normally become involved in a Type A emergency, resolution of which is a plant operator's responsibility.

In situations where a Type A emergency might escalate to a Type B emergency NB EMO accepts the responsibility for co-ordinating the off-site assistance as necessary.

On-site safety, security and emergency planning is the responsibility of NB Power and is NOT dealt with herein, except where co-ordination of outside assistance is requested in support of emergency operations. Arrangements have been made by NB Power with municipalities and other agencies for such support.

Alerting Procedures – Control Group

On the occurrence of an unusual incident or emergency, the Point Lepreau Generating Station (PLGS) Shift Supervisor is the first person in authority to know of it, and must decide what, or if any, emergency action is to be taken or outside assistance requested.

If outside assistance is needed, the Shift Supervisor will immediately call for it under the terms agreed to by the assisting agency, and will take other appropriate action in accordance with the On-Site Emergency Plan (e.g. fire fighting assistance from Saint John).

Conditions under which it is mandatory for NB EMO to be notified have been agreed, and are specified in Volume 2 of this plan.

If it is necessary for any members of the Control Group to be alerted, the Notification Chart shown on page 9 will be used.

Alerting Procedures - Public

If it becomes necessary for the public to be alerted, the Emergency Measures Organization will take the following actions:

- Alert Executive Council Office (ECO) to send staff to the Provincial Emergency Operations Centre (PEOC) and to be prepared to issue public safety bulletins to the public;
- Alert the Point Lepreau Warden Service to send staff to the Off-site Emergency Operations Centre (OEOC) and to be prepared to advise area residents to turn on their radio / television to receive detailed information;
- Activate the Everbridge Emergency Notification System and be prepared to initiate an appropriate message to all residents in the Emergency Planning Zone (EPZ);
- Prepare and disseminate appropriate advice to the public through ECO, the Point Lepreau Warden Service and the Everbridge Emergency Notification System.
- Wardens will be directed to contact residents in their assigned areas to ensure that they are informed of any action required.
- Should evacuation be deemed necessary, EMO will make arrangements for the movement of those individuals requiring assistance; arrangements are described in Volume II.

Notification Sequence

The Point Lepreau Generating Station (PLGS) Shift Supervisor is responsible to initiate notification of off-site authorities, whenever there is an actual or potential threat to public safety.

The sequence of notifications required is as follows:

Serial	Notifications
1	Shift Supervisor calls NB Power Systems Dispatch Office in Fredericton
2	NB Power Systems Dispatch Office calls RCMP J-Division OCC
3	RCMP J-Division OCC calls NB EMO / Duty Officer (after hours)
4	NB EMO calls Shift Supervisor to authenticate and obtain details; see Note 1.
5	NB EMO notifies Provincial Emergency Operations Centre (PEOC) staff Includes Regional Emergency Management Coordinators (REMCs) (EMO Menu F).
6	NB EMO notifies Medical Officer of Health (MOH) Dr. Scott Giffin
8	NB EMO notifies the Nuclear Control Group (NB EMO PEAC Menu G & Nuclear Control Group Menu N);
9	Nuclear Control Group members notify their parent organizations; see Note 2.
10	NB EMO notifies external agencies (IEMG Menu I & Senior Officials Menu A); FNEP Duty Officer (24/7 at 1-613-954-6651)
11	NB EMO notifies Shift Supervisor when the notification process is complete.

Notes

1. This call will be made from NB EMO PEOC and will be recorded.
2. NB EMO notifications of Menu lists will be through the Everbridge Notification System.

SECTION A

CONTROL GROUP

Responsibilities

The Control Group will assume control, direction and co-ordination of emergency off-site activities when circumstances require, on the direction of the Head of the Control Group. When this action is instituted, the Shift Supervisor will be informed.

Composition

Having regard for the many and complex activities required in an “emergency” response, it is necessary that the Control Group includes representatives of all agencies which may be needed. It is not envisaged that the entire group would be required to assemble except in the gravest emergency. Those needed to deal with a particular situation will be summoned to the Provincial Emergency Operations Centre (PEOC) while others would be placed on “Stand By” or “On Call” as the situation demands.

Member agencies of the Control Group are listed in Appendix 1 to this section. (In this plan, where an individual or position is named, the phrase “or alternate” is to be understood to follow).

The Head of the Control Group is the Director of NB EMO, who has sole decision making authority. Other members are advisors.

Actions

The Control Group will:

- (a) assemble at the PEOC when alerted by NB EMO;
- (b) obtain information on the reported emergency, and on what actions have already been taken;
- (c) assume control, direction and co-ordination of emergency activities to whatever extent necessary;
- (d) authorize the publication of information, warnings, and advice to the public and the Government of New Brunswick;
- (e) advise the Minister of Public Safety on the formal declaration of an emergency in accordance with the NB Emergency Measures Act;

- (f) direct NB EMO to inform Emergency Response Agencies in Nova Scotia, Prince Edward Island and the State of Maine; and
- (g) take any other actions considered necessary.

Federal Agencies

Public Safety Canada (PS-C) will provide a federal liaison officer to the Control Group, to advise on federal resources and to obtain such resources as may be required. The PS-C representative will keep the Federal Government informed.

Health Canada (HC) can provide a liaison officer to the Nuclear Control Group to facilitate communication and coordination with the Federal Nuclear Emergency Plan Technical Assessment Group (FNEP TAG).

The Canadian Nuclear Safety Commission (CNSC) will provide a liaison officer to the Control Group to advise on aspects of the incident within CNSC jurisdiction and to assist the Control Group in any way possible.

The Canadian Meteorological Service of Environment Canada (EC) will provide a meteorologist to the Control Group to assist in providing weather information and to plot the trajectory of any plume containing radioactive material.

Participating federal agencies will provide the names and applicable contact information for their headquarters, designated representatives and their alternates. NB EMO will maintain the contact information in appropriate notification lists.

Provincial agencies will prepare plans, containing essential operational information, for inclusion in Volume 2 of this plan. These plans will contain alerting and assembly instructions, places of assembly, Standing Operating Procedures, and contact information of response personnel.

SECTION B

NEW BRUNSWICK EMERGENCY MEASURES ORGANIZATION (NB EMO)

NB EMO will:

- (a) on receipt of emergency information from NB Power, alert members of the Control Group;
- (b) provide a Provincial Emergency Operating Centre for the Control Group (this will be NB EMO Headquarters);
- (c) prepare Operating Procedures as directed by the Control Group;
- (d) through the Director of NB EMO, review and ensure the coordination of all agency plans and operating procedures and actions which may be required under this plan;
- (e) in collaboration with NB Power, arrange seminars, and exercises to test operating procedures and agency plans;
- (f) review this plan annually to ensure the required state of readiness of all agencies concerned with the execution of this plan; and
- (g) notify all concerned of any changes, either of personnel or content of this plan; and
- (h) In the event of a nuclear emergency at Point Lepreau, notify emergency response agencies in Nova Scotia, Prince Edward Island and the State of Maine, the Air Traffic Controller in Moncton, the Canadian Coast Guard in Saint John, the Medical Officer of Health (MOH) and Health Canada.

SECTION C

NEW BRUNSWICK POWER (NB Power)

NB Power responsibilities in the event of an emergency are threefold:

A. PLANT STAFF RESPONSIBILITIES

B. HEAD OFFICE MANAGEMENT RESPONSIBILITIES

C. PUBLIC AFFAIRS STAFF RESPONSIBILITIES

A. Plant Staff will:

- (a) take immediate and urgent action to mitigate the effects of such an emergency using plant staff and equipment, by requesting such off-site assistance as the situation requires;
- (b) promptly advise NB EMO of the facts of the emergency by initiating the notification procedure contained in this Plan;
- (c) direct all emergency activities including the Off-Site Monitoring Program until direction is assumed by the Control Group;
- (d) provide laboratory services for the analysis of samples;
- (e) advise the Control Group of the results of the Monitoring Program and sampling, and in conjunction with the Department of Health, recommend appropriate countermeasures; and
- (f) train personnel of the various agencies in the necessary skills to enable them to carry out duties required in the Monitoring Program.

B. Head Office Staff will:

- (a) provide a representative on the Control Group;
- (b) co-ordinate NB Power corporate resources to support provincial emergency response via a NB Power emergency resource group in Fredericton;
- (c) establish a communication link between NB Power staff at Lepreau Off-Site Emergency Centre and the Control Group in Fredericton, for the interpretation and appraisal of technical information; and

- (d) Provide personnel and equipment in support of emergency operations.

C. Public Affairs Staff will:

- (a) be responsible for the issue of site-specific information; and
- (b) in conjunction with Executive Council Office, be responsible for the issue of information from the Control Group to the public and the news media, as described in Section M of this plan.

SECTION D

DEPARTMENT OF AGRICULTURE, AQUACULTURE & FISHERIES

(DAAF)

The Department of Agriculture, Aquaculture and Fisheries will:

- (a) in collaboration with NB Health, arrange for sampling locally produced foodstuff and marine product, and the delivery of samples to the specified laboratory for analysis (Health Canada (HC), Department of Fisheries and Oceans (DFO) and the Canadian Food Inspection Agency (CFIA) may also be involved);
- (b) be prepared to provide personnel to take samples;
- (c) in collaboration with the NB Health, ensure that locally produced foodstuff which is condemned does not reach the public (HC and the CFIA may also be involved);
- (d) in collaboration with NB Health and NB Environment, arrange for the disposal of condemned or contaminated foodstuff (HC and CFIA may also be involved);
- (e) when an evacuation is directed, help facilitate the movement and welfare of farm animals;
- (f) in collaboration with the DFO, Canadian Coast Guard and others, develop arrangements for removal of fishing vessels from any danger area; and
- (g) assist other agencies as required.

SECTION E

DEPARTMENT OF ENVIRONMENT AND LOCAL GOVERNMENT

(DELG)

The primary purpose of the Department of the Environment and Local Government's participation in the plan is sampling air, soil, surface waters and surface drinking water supplies. Sampling will confirm what areas, if any, have been contaminated, and to what extent.

The Department of Environment and Local Government will:

- (a) obtain water, soil and air samples as requested; sampling to be limited to areas outside the Lepreau 20 km emergency planning radius;
- (b) advise on disposal of contaminated substances;
- (c) provide regulatory oversight for site clean up, when and if required;
and
- (d) provide departmental resources and assistance as required.

SECTION F

DEPARTMENT OF HEALTH

The Department of Health, in conjunction with Horizon Health Network and Ambulance NB, will ensure:

- (a) timely and accurate advice to the Control Group on all health-related aspects of the emergency;
- (b) triage, field health support, counseling and treatment, and transportation of contaminated persons requiring hospital care, as well as provision of essential medical services to reception and decontamination centres as required;
- (c) provision of essential medical services to persons exposed to radiation, as well as continuity of medical treatments and care services to the community-at-large for the duration of the emergency;
- (d) provision of public health services related to air quality, as well as the safety of food and water in the area affected by the emergency;
- (e) provision of nuclear-related health and care information to residents of the province of New Brunswick who access the TeleCare 811 system;
- (f) distribution and administration of potassium iodide (KI) pills to the community;
- (f) provision to Executive Council Office (ECO) of accurate and relevant health information, appropriate media messages and, if necessary, public health orders for dissemination to the public;
- (g) provision of mental health and addiction services to persons affected by the emergency, as well as Critical Incident Stress Management (CISM) to first responders and their families;
- (h) consultation and cooperation with federal, provincial and municipal departments and agencies, as well as non-government response agencies;
- (i) during the recovery phase, the establishment and maintenance of a registry of evacuees from the evacuation zone;
- (j) continual emergency preparedness of the health sector through periodic review of emergency plans every three years, as well as conduct of ongoing education, training and exercises.

SECTION G

DEPARTMENT OF JUSTICE AND ATTORNEY GENERAL

The Department will:

- (a) maintain continuity of the Court System;
- (b) advise government on the legal implications of emergency decisions/direction; and
- (c) be prepared to coordinate emergency legislation and regulations required by provincial departments and agencies.

SECTION H

DEPARTMENT OF PUBLIC SAFETY (FIRE MARSHAL)

The Provincial Fire Marshal will:

- (a) ensure that fire protection measures are established, including assistance from municipal fire departments;
- (b) provide the Control Group with advice on any incident involving fire; and
- (c) provide HAZMAT team support for decontamination advice and operations, as required.

SECTION I
DEPARTMENT OF NATURAL RESOURCES
(DNR)

The Department of Natural Resources will:

- (a) monitor forest conditions in the vicinity of the Point Lepreau Nuclear Generating Station with a view to priority action in the event of forest fire;
- (b) provide Point Lepreau Nuclear Generating Station staff with available firefighting equipment, on request;
- (c) assist in ensuring that access by road to the Plant is maintained at all times in conjunction with the RCMP and the Department of Transportation and Infrastructure (DTI);
- (d) coordinate with the Warden Service the alerting of seasonal residents and visitors in areas not covered by the Warden Service;
- (e) assist the RCMP in the evacuation of seasonal residents and visitors;
and
- (f) provide assistance and resources requested by the Control Group, as required.

SECTION J

DEPARTMENT OF SOCIAL DEVELOPMENT

The Department of Social Development will:

- (a) provide for the prompt registration of evacuating residents and transients from the danger area;
- (b) provide for lodging and feeding of evacuees;
- (c) allow provincial and regional personnel engaged in emergency operations to partake in congregate feeding and lodging as required; and
- (d) provide other emergency social services as required under the provincial emergency action plan. The Department of Social Development is responsible for provision of the five Emergency Social Services as follows:

Note: Reception and Information (Under Contract with Red Cross)

- Emergency Lodging
- Emergency Feeding
- Emergency Clothing
- Registration & Inquiry
- Personal Services (which includes the care of domestic pets)

SECTION K

DEPARTMENT OF TRANSPORTATION & INFRASTRUCTURE

(DTI)

The Department of Transportation & Infrastructure will:

- (a) ensure road access to the plant at all times on a priority basis;
- (b) ensure evacuation routes are clear on a priority basis, if evacuation becomes necessary;
- (c) assist the Control Group and RCMP in evacuation of people and domestic pets;
- (d) provide equipment and personnel as required by the Control Group;
and
- (e) establish and maintain emergency radio communication between operational centres and agencies as required.

SECTION L

EXECUTIVE COUNCIL OFFICE

Executive Council Office in conjunction with Public Affairs of NB Power, will be responsible for:

Preparedness Responsibilities

- a) provincial policies for emergency public information and assist in the preparation, maintenance and periodic testing of the provincial Emergency Public Information Plan;
- b) advance and continuing preparation, provision and dissemination of public information on response procedures, including information on emergency assistance, radiation, respiratory concerns, shelter, evacuation, prophylactic medication and response facilities, to the general public, government officials and the media;
- c) establishing communications links among facilities;

Operational Responsibilities

- a) alerting public information staff, the premier, and other elected officials, when directed by NB EMO;
- b) allocating communications personnel to various functions and locations;
- c) notifying the media through the GNB newswire and posting subsequent, public safety bulletins regarding the incident;
- d) advising the Control Group on all matters relating to public information;
- e) liaison with the media;
- f) providing information on the event to the information agencies of other provinces, the Government of Canada and the United States; and
- g) the continuation of emergency public information services through the termination of the emergency and follow-up activities.

SECTION M

DEPARTMENT OF EDUCATION AND EARLY CHILDHOOD DEVELOPMENT

(EECD)

The Department of Education & Early Childhood Development will be responsible to:

- a) make available school buses for the mass evacuation of persons living within the area affected by any emergency;
- b) make available a limited number of drivers for school buses once they reach the site;
- c) arrange to have designated personnel to coordinate bus transportation activities in emergency area;
- d) in conjunction with Department of Social Development ensure that designated schools are available to be set up as reception centres; and
- e) assist the RCMP in formulating an orderly plan to evacuate persons living within the area affected by any emergency.

SECTION N

DEPARTMENT OF PUBLIC SAFETY

CRIME PREVENTION & POLICING STANDARDS BRANCH

The Department of Public Safety, through the Crime Prevention & Policing Standards Branch will:

- a. immediately upon notification of an emergency or exercise at Point Lepreau, advise the Officer in Charge, RCMP J Division Operational Support Services (OIC RCMP J Div. OSS) of the Emergency,
- b. ensure required Police service to the entire area affected by the emergency, (Delegated to the RCMP)
- c. ensure Police assistance to NB Power to ensure safety of access to plant personnel, (Delegated to the RCMP)
- d. participate in alerting procedures for the Control Group and residents of the area, to the extent of the responsibilities as enumerated in the off-site emergency plan,
- e. assist the Control Group by advising and assisting in all Police matters and maintaining liaison with Municipal Police Forces, and
- f. act as lead agency to expedite the safe and orderly evacuation of the affected area to the extent of the responsibilities as enumerated in the detailed Plan.

RCMP (SPECIFIC ASSIGNED TASKS)

RCMP will:

- a) be the lead agency with the responsibility to conduct a safe orderly evacuation;
- b) establish communications with all agencies involved in the evacuation;
- c) establish traffic control points on Highways #780, 790 and Highway #1 as detailed at Annex A to Tab G of Volume 2 of this plan. Implement the necessary traffic control measures;

- d) be prepared to receive and direct transportation dispatched to the areas being evacuated;
- e) ensure the total area has been evacuated; and
- f) provide security once the area has been evacuated.

SECTION O

POINT LEPREAU WARDEN SERVICE

The PLGS Warden Service is responsible to:

- a) alert, when directed to do so, residents and non-residents to listen to radio or television stations for further instructions;
- b) record and report where any resident has not been alerted, or requires special assistance;
- c) assist the RCMP in controlling traffic if and when directed to do so;
- d) be prepared to provide radio communications links at reception centres, decontamination points, or any critical location not otherwise provided with radio communications;
- e) act as guides and radio communicators for buses assigned to pick up and transport evacuees;
- f) continue to pass information to residents as required; and
- g) other duties as assigned in the Warden Service Procedures Manual.