



TOWN OF SAUGEEN SHORES
NUCLEAR EMERGENCY RESPONSE
PLAN

DATE: September 22, 2025

NUCLEAR EMERGENCY RESPONSE PLAN

NUCLEAR EMERGENCY

Chapter 1 – General

Introduction

The overall response by Provincial and Municipal Organizations to a nuclear emergency at the Bruce Power site is described in four documents:

- Provincial Nuclear Emergency Response Plan (PNERP): A Strategic Response Framework for Nuclear & Radiological Emergency Management
- Provincial Nuclear Emergency Response Plan– Implementing Plan for the Bruce Nuclear Generating Station
- Provincial Nuclear Emergency Response Plan I- Other Radiological Emergencies
- Municipality of Kincardine Nuclear Emergency Response Plan

These plans describe the overall emergency organization and response by Provincial organizations and the response of the Town of Saugeen Shores as a host community.

The Provincial plans require that plans and guidelines be prepared by the Designated and Host Municipalities around the Bruce Power site, to deal with a nuclear emergency, and that these plans conform to the Provincial plans.

It is important to note that in a nuclear emergency, the Province is responsible for overall direction and control of off-site actions.

Scope

Although it is not felt necessary to have detailed plans in place to provide immediate protection for the public beyond 10 km from the Bruce Power site, it is important to have plans to notify and coordinate the actions of the host municipality should it become necessary to do so.

This plan describes The Town of Saugeen Shores response that would be provided to the Municipality of Kincardine to help facilitate their Nuclear Emergency Response Plan by maintaining Alternate Facilities that can be used if called upon to do so.

Command and Control

In a nuclear emergency the Provincial Emergency Operations Centre is responsible for all decision making with respect to the emergency. IN THIS CASE THE EMERGENCY CONTROL GROUP MAY NOT ACT UNILATERALLY.

The Town of Saugeen Shores Emergency Control Group is responsible for issuing orders and directing emergency response within its area of jurisdiction during a nuclear emergency as advised by the Provincial Emergency Operations Centre.

In the early stage of the emergency, the Provincial Emergency Operations Centre and the Community Emergency Management Coordinator may issue orders on behalf of the Provincial Emergency Operations Centre and Emergency Control Group respectively.

The Provincial Emergency Operations Centre may also issue orders directly to any element of the emergency management organizations. However, all orders shall be confirmed in writing by the Provincial Emergency Operations Centre to the Emergency Control Group and the Emergency Control Group shall be kept informed of all actions.

Traffic and Entry Control

Traffic Control within Saugeen Shores is implemented by The Saugeen Shores Police Department, while closely working with the Ontario Provincial Police, and the Ministry of Transportation Ontario.

Reception Centre

The Town of Saugeen Shores will provide a Reception Centre facility to support redundancy or additional requirement to the Kincardine Nuclear Emergency Plan in alignment with the Provincial Nuclear Emergency Response Plan. The County of Bruce Social Services Department is responsible for the operation of all Reception Centres set up in the Municipality with assistance from Red Cross. These are supported by Bruce Power personnel to assist in the operation in order to provide redundancy and/or additional capabilities to existing facilities in the Municipality of Kincardine in the event of requirement.

Centre	Address
Reception Centre (The Plex)	600 Tomlinson Drive Port Elgin

The primary functions of Reception/Evacuation Centre staff are:

- a) To register evacuees and answer inquiries from friends and relatives as to their whereabouts, to provide emergency supplies and services to evacuees, i.e., shelter, food, clothing. **(Red Cross)**
- b) Provide temporary financial assistance, transportation and other services. **(Bruce County Human Services)**
- c) To provide a location where evacuees and the general public can receive information and counselling, both in an individual and group setting.
- d) To monitor evacuees for contamination and decontaminate them and their vehicles if necessary. **(Bruce Power)**
- e) To provide a location where evacuees can be categorized and referred for follow up treatment in the event of suspected high exposure to radiation. **(Public Health Grey Bruce)**

Emergency Worker Centre

The primary purpose of the Emergency Worker Centre is to provide a location to provide dose and exposure control, monitoring, and decontamination of Emergency Workers, residents, or any other non-Bruce Power staff or visitor who enters the Primary Zone when Stage II of the Traffic Control Plan is implemented.

(Note: Dose and exposure control, monitoring and decontamination of staff entering the Bruce Power Site is the responsibility of Bruce Power.)

The Emergency Worker Centre Manager is responsible for ensuring this Emergency Centre Exposure Control Desk is suitably equipped and ready for operation.

The Town of Saugeen Shores will provide facility for alternate Emergency Worker Centre to support redundancy or additional requirement to the Kincardine Nuclear Emergency Plan in alignment with the Provincial Nuclear Emergency Response Plan.

Detailed requirements for facility operation and specific safety requirements such as dosimetry, exposure control, instrumentation, equipment and administrative process will be provided by Bruce Power as identified in the Municipality of Kincardine's Nuclear Emergency Response Plan.

Centre	Address
Emergency Worker Centre Peel Street Yard	329 Peel Street, Southampton

Public Inquiries and Information

The Town of Saugeen Shores will provide the facility for alternate Emergency Information Centre's (EIC) to support redundancy or additional requirement to the Kincardine Nuclear Emergency Plan in alignment with the Provincial Nuclear Emergency Response Plan.

The following functions are performed at the EIC:

- a) Issue news releases.
- b) Conduct press conferences and other media briefings.
- c) Monitor media coverage and public information and keep the emergency organization informed.
- d) Identify rumours and incorrect information and correct them.
- e) Assist the media.
- f) Monitor Emergency Bulletins and confirm to the Provincial Emergency Operations Centre.
- g) Provide information to the public, individually by phone, and collectively by preparing information bulletins and conducting public meetings across the emergency

Detailed requirement for facility operation is outlined in the Municipality of Kincardine's Nuclear Emergency Response Plan.

1.1 Definition of "Municipality"

Within the context of this plan, "Municipality" is comprised of:

- The elected officials and staff of the Municipality of Saugeen Shores,
- Local emergency services organizations, i.e. Police, Fire and Ambulance,
- County Government and staff, including Bruce County Highway Department and Bruce County Social Services
- Adjoining Municipalities
- the Grey Bruce Public Health and local hospitals,
- Bluewater District School Board and the Bruce-Grey Separate School Board
- Local volunteer organizations and service clubs, including Red Cross and St. John Ambulance
- Local businesses and recreational facilities.

1.2 Scope

The Municipal Emergency Plan describes what actions will be taken by the Municipality to respond to a nuclear emergency at the Bruce Power site that creates off-site impact. How this is accomplished is described in the plans and guidelines of the various organizations and agencies comprising the Municipality.

Chapter 2 - Planning Basis

2.0 Introduction

The Provincial Nuclear Emergency Response Plan describes the various reactor accident scenarios which form the basis for emergency plans and procedures. The extent of the emergency and the resultant off-site effects, prescribe the emergency response and organization required to deal with these scenarios.

The various accident scenarios involving the actual or potential release of airborne radioactive material to the environment are categorized into four groups in ascending order of severity. A fifth category (liquid emissions) has been included as well.

The area around the Bruce Power site is divided into three distinct planning zones namely “the Contiguous Zone, the Primary Zone and the Secondary Zone. The zone closest to the facility is at greatest risk so has the greatest degree of planning, whereas the area furthest away, has the least.

2.1 Emergency Notification Categories

2.1.1 Notification Categories

The four emergency notification categories with actual or potential for airborne releases, in ascending order of severity, are listed as follows:

1. Reportable Event {Routine Monitoring}
“An event affecting the nuclear installation which would be of concern to the off-site authorities responsible for public safety”. **Staff will monitor the situation from work or home.**
2. Abnormal Incident {Enhanced Monitoring}
“An abnormal occurrence at the station which may have a significant cause and/or may lead to more serious consequences”. **Staff at both the Provincial and Municipal level will monitor the situation from their operations centers. Other Provincial and Municipal staff will be notified to remain available to report to duty.**
3. On-Site Emergency {Partial Activation} “A serious system malfunction which results or may result in an atmospheric emission of radioactive material (of up to 2 mSv dose within 4 hours) or is likely to result in an emission at a later time but not within the next 36 hours”. **Response plans are partially activated, and the provincial and municipal operations centres are appropriately staffed to monitor the situation. Municipal Centre’s are set up and staffed as required. JIC and Traffic Control Centre are set up and staffed to operate.**

4. General Emergency {Full Activation} “An on-going major atmospheric emission of radioactive material, or one likely within the next 36 hours, as a result of a more severe accident.” **Centers are staffed and made operational and appropriate measures are taken.**

2.1.2 Liquid Emissions

It is highly improbable that the release of a liquid material to the lake could be significant enough to be considered an emergency due to immediate potential health effects. However, it is necessary to have a plan to deal with a significant release of material in the liquid stream. A Liquid Emissions Response Plan makes up part of the municipal emergency plan to compliment the Provincial Liquid Emissions Response Plan.

2.2 Emergency Planning Zone

2.2.1 Contiguous Zone

The Contiguous Zone is designated as the area immediately surrounding the Bruce Power site in the landward direction out to approximately 3 km.

Due to its proximity to the site, plans are required to notify the public quickly and evacuate them as necessary in a prompt manner.

On the map shown in Figure 2.1, the Contiguous Zone comprises Response Sector 1. It is the area from Concession 8 including Scott’s Point Subdivision to the north, extending south to the southerly boundary of Inverhuron Park. It extends east to Lake Range Road and the bluff to Concession 2.

2.2.2 Primary Zone

Analysis has determined that the effects of a severe accident at the Bruce Power site, requiring immediate evacuation or other protective measures, are not likely to extend past 10 kilometers from the site. Therefore the 10-kilometer radius around the site is designated as the “Primary Zone”, where more detailed plans are put in place. The Primary Zone is divided into 6 “Response Sectors” in the landward direction and 4 in the direction of the lake, to facilitate evacuation orders or other protective measures.

The Response Sectors are further grouped into “rings” as follows:

- Inner Ring = Sector 1 (Contiguous Zone)
- Middle Ring = Sectors 2 & 3 and Lake Sectors 7 & 8
- Outer Ring = Sectors 4, 5 & 6 and Lake Sectors 9 & 10

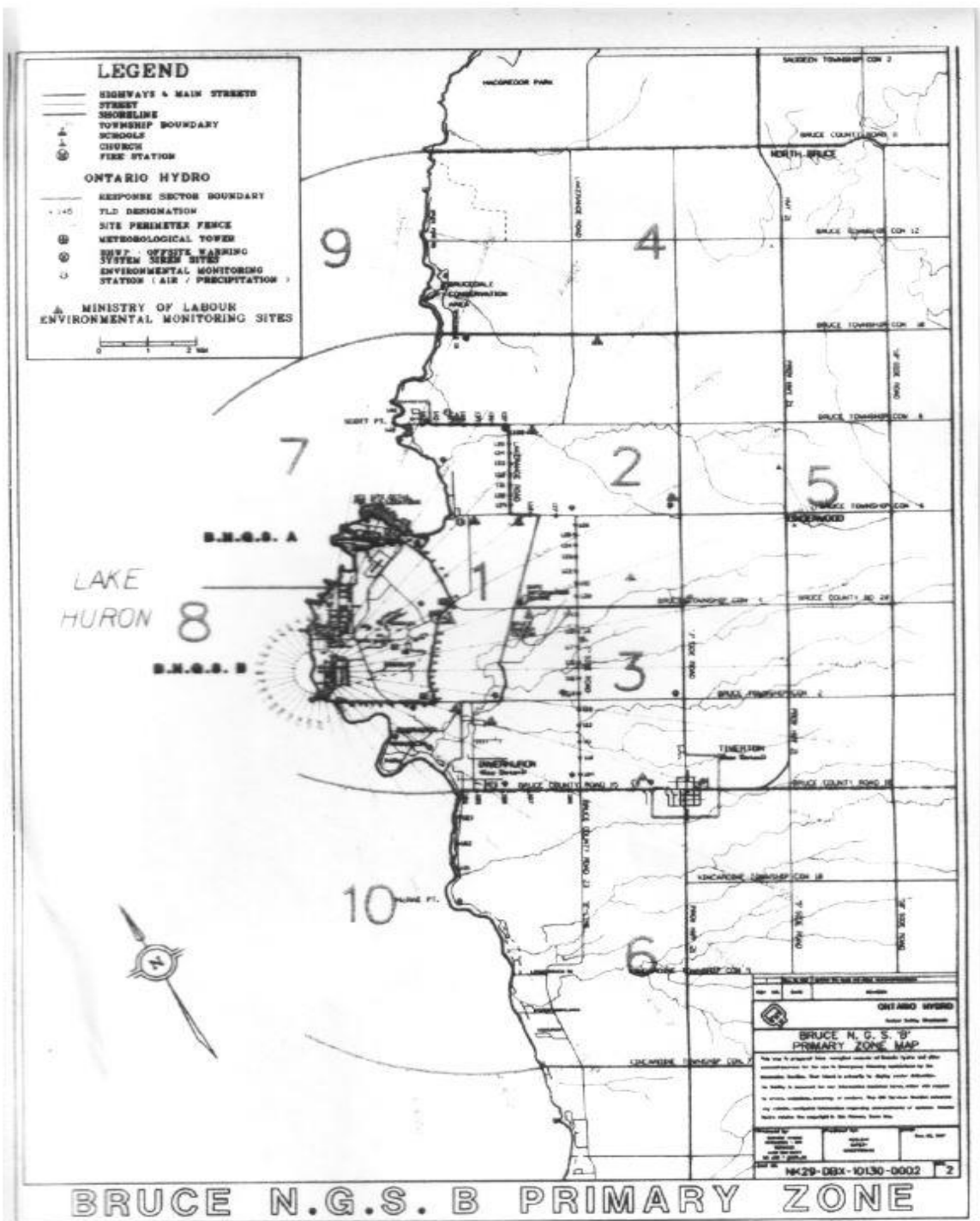
The preferred method of evacuation or imposing of other protective measures will be by “rings”, since it is difficult to predict the wind direction or speed, particularly during the spring and early winter when the lake effect is most pronounced.

The Primary Zone includes the Contiguous Zone, and is shown along with the appropriate Response Sectors in Figure 2.1

The Primary Zone falls within the Municipality of Kincardine. This Municipality is termed the "Designated Municipality".

The Primary Zone includes an area bounded generally by the Bruce- Saugeen boundary to the north, No. 10 Side Road to the east, and County Road No. 15 to the south; the entire former Village of Tiverton; and an area bounded generally by County Road No. 15 to the north, No. 10 Side Road to the east, and the 7th Concession to the south. The Primary Zone extends westward into Lake Huron to a radius of 10 km from the Bruce Power site. The exact boundaries of the zone are described in Table I.

Figure 2.1
Primary Zone & Response Sectors
(0-10km)



**FIGURE 2.2
RESPONSE SECTOR BOUNDARIES**

SECTOR	MUNICIPALITY	SECTOR BOUNDARY (north; east; south; west)
1	Kincardine	Concession 8 (including Scott's Point); Lake Range Road; Concession 6; east and south boundaries of Inverhuron Provincial Park
2	Kincardine	Concession 10; J Sideroad; Concession 4; east boundary of Sector 1
3	Kincardine	Concession 4; J Sideroad; boundaries of Tiverton; County Road 15; east boundary of Sector
4	Kincardine	Concession 12 and County Road 11; 10 Sideroad; Concession 10; Shoreline
5	Kincardine	Concession 10; 10 Sideroad; County Road 15; J Sideroad (excluding Tiverton)
6	Kincardine	County Road 15 (excluding Tiverton); 10 Sideroad; Concession 7; Shoreline
7	Lake Sector	– 5 km arc from Bruce Power site; Shoreline; 300 line from Bruce Power site
8	Lake Sector	300 line from Bruce Power site; Shoreline; – 5km arc from Bruce Power site
9	Lake Sector	– 10 km arc from Bruce Power site; Shoreline; – 5 km arc from Bruce Power site; 300 line from Bruce Power site
10	Lake Sector	300 line from Bruce Power site; –5 km arc from Bruce Power site; Shoreline: – 10 km arc from Bruce Power site

2.2.3 Secondary Zone

Although it is not felt necessary to have detailed plans in place to provide immediate protection for the public beyond 10 km from the Bruce Power site, it is important to have plans to monitor the effects of any potential contamination of agricultural products and take appropriate action. It is also wise to have plans available to notify and coordinate the actions of municipalities outside the Primary Zone, should it become necessary to do so.

Therefore, an area of 50 km radius from the Bruce Power site has been designated as the “Secondary Zone” for planning purposes where preparations are made for taking ingestion control measures, for keeping the public informed, and coordinating assistance to the Municipality of Saugeen Shores, or the County.

The Secondary Zone is shown in Figure 2.3. It includes four Secondary Zone Divisions:

Primary Zone –

Sub-Zone B (out to 20 km)

Sub-Zone C (20-30 km)

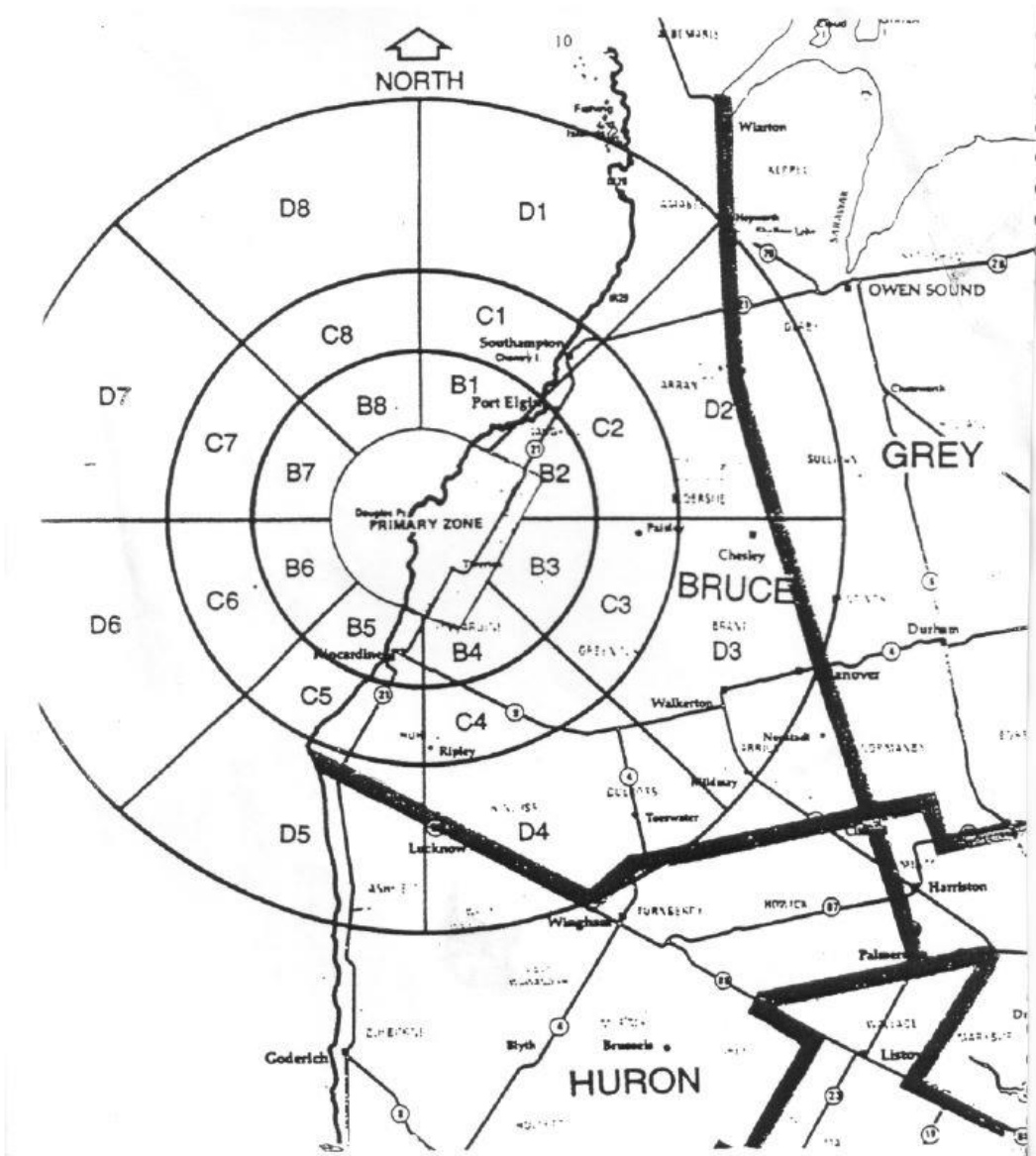
Sub-Zone D (30-50 km)

Each Sub-zone is divided into 8 Sectors.

2.2.4 Response Sector Boundaries

Where a road defines the boundary of a Zone or Sector, residents on both sides of the road are regarded as being within the Zone or Sector closer to the Bruce Power site for public education and emergency response purposes.

Figure 2.3
Secondary Zone
(0-50km)



Chapter 3 - Concept of Operation

3.1 Overview

The following is an overview of the sequence of events and actions taken in the event of an incident at the Bruce Power site:

1. The Bruce Power Shift Superintendent decides on the emergency notification category based on available information, and within 15 minutes, makes the initial notification to the Provincial Emergency Operations Centre and the London Ontario Provincial Police Communication Centre.
2. Within 15 minutes of being notified, the Provincial Emergency Operations Centre will decide on the action to be taken as follows:
 - Routine Monitoring
 - Enhanced Monitoring
 - Partial Activation
 - Full Activation

The Provincial Emergency Operations Centre will then contact the Community Emergency Management Coordinator/alternate and inform him/her of the above decision.

3. The Community Emergency Management Coordinator/alternate will initiate the notification plan. Response is described below and in section 3.2.
4. If the plan is partially or fully activated, the following Emergency Centers could be established and staffed if decided as described in 3.2.3(2) and 3.2.4(2) respectively:
 - Emergency Operations Centre
 - Emergency Information Centre
 - Reception/Evacuee Centre
 - Traffic Control Centre
 - Emergency Worker Centre
5. If the plan is fully activated the entire Emergency Control Group will assemble at the Emergency Operations Centre and assume control of Emergency Operations. Until the Emergency Control Group is fully assembled and activated, the CEMC or Incident Commander will authorize any urgent emergency actions covered in Sections 7.4.3, 7.4.4, and 9.1 of this plan.

6. If a Provincial Nuclear Emergency is declared, the Head of Council/or alternate for the Municipality of Saugeen Shores will declare a municipal emergency and immediately notify the Provincial Emergency Operations Centre of this action.
7. The Province of Ontario, through the Provincial Emergency Operations Centre will issue directives and orders for Protective Measures to be taken.
8. After immediate actions are taken to protect the public from exposure to radiation (Phase I) the emergency will enter Phase II in which longer term actions are taken to monitor the environment, prevent the public from ingestion of radioactive materials, and restore the situation to normal. (Recovery Phase)

3.2 Initial Response

3.2.1 Routine Monitoring

Routine Monitoring would normally be ordered by the Provincial Emergency Operations Centre following a “Reportable Event”, unless decided otherwise by the Provincial Emergency Operations Centre.

1. Bruce Power informs the Provincial Emergency Operations Centre and London Ontario Provincial Police Communications Centre of an abnormal event. The Provincial Emergency Operations Centre phones the Community Emergency Management Coordinator within 15 minutes. The message is confirmed by email / fax to the St. Catherines Fire Dispatch
2. The Community Emergency Management Coordinator and/or alternate establish contact with the Provincial Emergency Operations Centre who will confirm that Routine Monitoring is required. The Community Emergency Management Coordinator and/or alternate will then continue to monitor the situation and keep the persons in 3.2.1 (3) [listed below] informed until requested to stand down by the Provincial Emergency Operations Centre.
3. The Community Emergency Management Coordinator and/or alternate will inform the following:

Fire Chief/alternate - Chief of Police/alternate - Bruce County Community Emergency Management Coordinator

3.2.2 Enhanced Monitoring

Enhanced Monitoring would usually be ordered by the Provincial Emergency Operations Centre following an “Abnormal Incident”, unless decided otherwise by the Provincial Emergency Operations Centre.

1. Bruce Power informs the Provincial Emergency Operations Centre and London Ontario Provincial Police Communications Centre of a reportable event. The Provincial Emergency Operations Centre phones the Community Emergency Management Coordinator within 15 minutes. The message is confirmed by email / fax to the St. Catharines Fire Dispatch
2. The Community Emergency Management Coordinator/alternate establishes contact with the Provincial Emergency Operations Centre and confirms that Enhanced Monitoring is required.
3. The Community Emergency Management Coordinator/alternate informs the following:
 - Mayor and C.A.O., Municipality of Saugeen Shores - Medical Officer of Health - Fire Chief/alternate – Chief of Police/alternate - Bruce County Community Emergency Management Coordinator- Emergency Information Officer
4. If required, the Head of the Emergency Control Group will request that the Emergency Control Group, comprised of some or all the following, assemble at the Emergency Operations Centre:
 - Mayor /alternate - Chief Administrative Officer/alternate - Medical Officer of Health - Fire Chief/alternate – Chief of Police/alternate - Ontario Provincial Police Representative - Emergency Information Officer - Community Emergency Management Coordinator and/or alternate
5. The Emergency Control Group will monitor the situation and take whatever actions are appropriate.

3.2.3 Partial Activation

Partial Activation would usually be ordered by the Provincial Emergency Operations Centre following an “On-Site Emergency”, unless decided otherwise by the Provincial Emergency Operations Centre.

1. Bruce Power informs the Provincial Emergency Operations Centre and London Ontario Provincial Police Communications Centre of a reportable event. The Provincial Emergency Operations Centre phones the Community Emergency Management Coordinator within 15 minutes. The message is confirmed by email / fax to the St. Catharines Fire Dispatch
2. The Community Emergency Management Coordinator and/or alternate will establish contact with the Provincial Emergency Operations Centre and confirm with the Provincial Emergency Operations Centre that “Partial Activation” is required. The Community Emergency Management Coordinator will activate the mass notification application requesting that all responding agencies place their organizations on standby for both set up and staffing should it be required.
3. The Emergency Operations Centre and Emergency Information Centre will be established. All other Centre’s will be set up and emergency responders for these Centre’s shall remain on standby in a state of readiness should there be a need to assemble.
4. The Emergency Information Centre is requested by the Emergency Control Group to issue a news release concerning the above activities.
5. All local hotels in the Municipality of Saugeen Shores and the CAW Centre in Saugeen Shores are contacted by the Bruce County Social Services Manager sitting on the Emergency Control Group and requested to reserve rooms for emergency workers.

3.2.4 Full Activation

Full Activation would usually be ordered by the Provincial Emergency Operations Centre following a “General Emergency” unless decided otherwise by the Provincial Emergency Operations Centre.

1. Bruce Power informs the Provincial Emergency Operations Centre and London Ontario Provincial Police Communications Centre of a reportable event. The Provincial Emergency Operations Centre phones the Community Emergency Management Coordinator within 15 minutes. The message is confirmed by email / fax to the St. Catharines Fire Dispatch

2. The Community Emergency Management Coordinator and/or alternate will confirm with the Provincial Emergency Operations Centre that the Emergency Plan be fully activated.
 - (a) All Emergency Operations Centers are fully staffed.
 - (b) The Emergency Worker Centre is established.
 - (c) & (d) are the sole responsibility of the Kincardine Community Emergency Management Coordinator and Bruce Power Emergency Services**
 - (c) On the instructions of the Provincial Emergency Operations Centre, the Public Alerting System shall be activated if conditions so dictate. If delays are experienced in establishing contact with the Provincial Emergency Operations Centre, the Community Emergency Management Coordinator and/or alternate may activate the Public Alerting System
 - (d) In case of an initial notification of a General Emergency containing a statement that a radioactive emission is either ongoing or expected to commence within 6 hours, or if no estimate of the commencement is given, the Community Emergency Management Coordinator and/or alternate shall immediately initiate the public alerting system without reference to any other authority.

Chapter 4 - Municipal Emergency Organization

4.1 Introduction - Phase I

The overall Municipal Emergency Response organization is shown in Figure 4.1 a summary of the roles and responsibilities of each component of the organization follows below.

4.2 Provincial Emergency Operations Centre

Overall responsibility for emergency management in a **Nuclear Emergency** lies with the **Provincial Emergency Operations Centre**. This Centre makes decisions regarding protective measures and other actions to be undertaken at both a Provincial and Municipal level. It operates under the authority of the Premier and has the authority to issue orders and directives regarding all aspects of response and emergency management, if a Nuclear Emergency is declared. In cases of dispute regarding actions to be taken, the Provincial Emergency Operations Centre has final authority.

This Centre is located in Toronto and is staffed by the following:

- The Executive Authority who is the Premier or designated Minister - Senior Executive who operates as Chief of Staff for the Executive Staff. - Public Information staff - Members of Operations staff and other representatives from various Ministries such as MOE, OMAFRA - Technical Support staff such as nuclear system specialists, Health Physicists, Meteorologists, etc.
- Various liaison staff for Federal and other organizations.

4.3 Emergency Operations Centre

The Emergency Control Group assembles at the Emergency Operations Centre and is responsible for the overall coordination and management of the Municipal emergency response.

It is comprised of the following staff:

- Mayor – Policy Director
- Chief Administrative Officer (EOC Incident Commander)
- Community Emergency Management Coordinator
- Medical Officer of Health
- Fire Chief/Alternate
- Chief of Police/alternate, Saugeen Shores
- Emergency Information Officer
- Ontario Provincial Police Representative
- Bruce County Social Services Representative
- Emergency Management Ontario Sector Officer
- Bruce Power Liaison Officer
- OPG Liaison Officer
- Director of Public Works
- Director of Community Services

All members of the Emergency Control Group are responsible for the following:

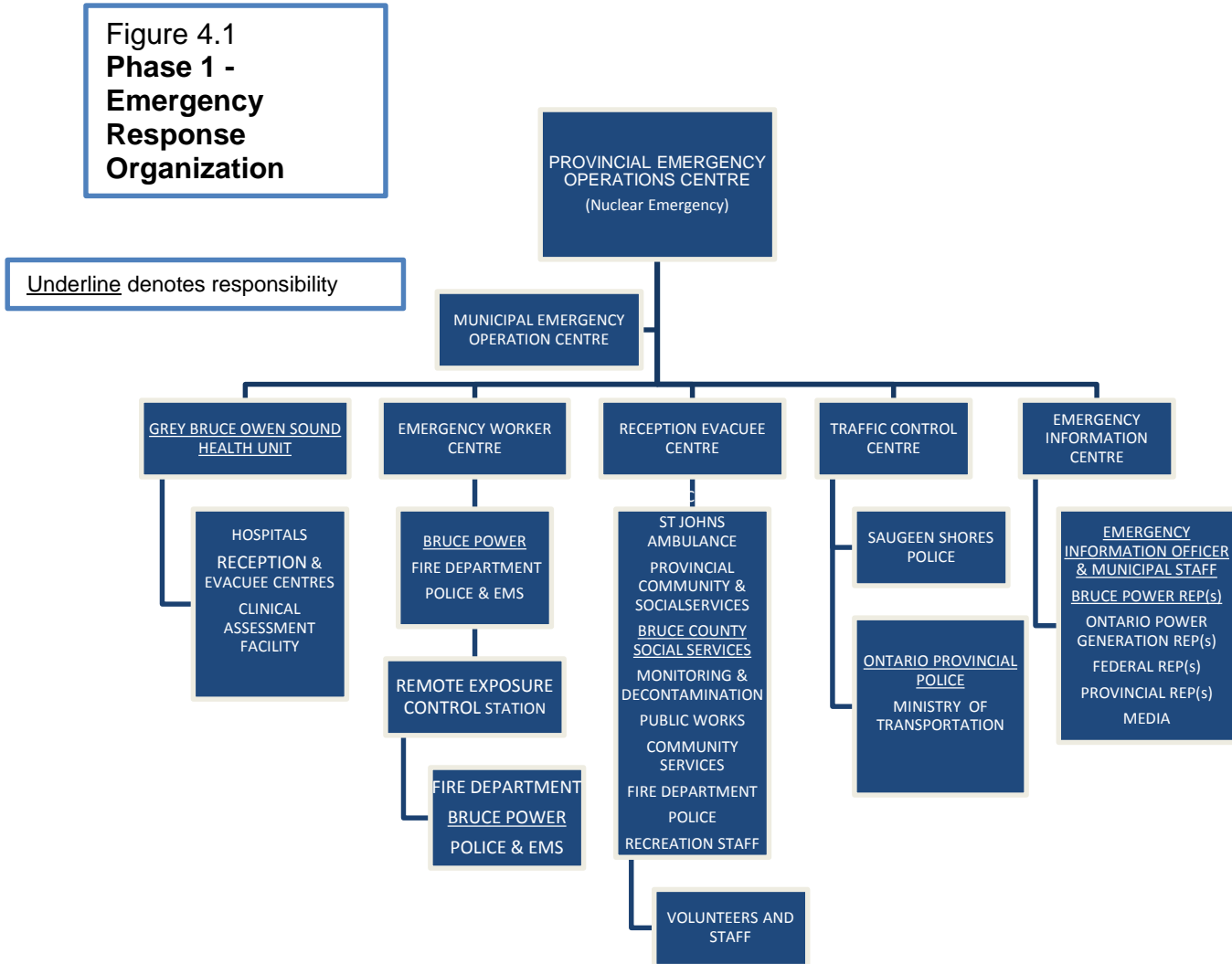
- (a) Following the Saugeen Shores Community Emergency Management Plan and this plan, advising and assisting the EOC Incident Commander in his/her functions and implementing the directives of the Provincial Emergency Operations Centre.
- (b) Ordering, recording and tracking actions requested of the organizations they represent.
- (c) Similarly recording and tracking requests from the Emergency Control Group for their own organizations and following up to ensure they are implemented.
- (d) Keeping informed of the emergency and actions of their organization and

passing this information to the rest of the Emergency Control Group through regular business cycle meetings.

(e) Keeping their own organizations informed about the on-going emergency and the measures being taken to deal with it.

(f) Regularly passing nuclear sector safety status information to their organization.

**Figure 4.1
Phase 1 -
Emergency
Response
Organization**



4.4 Emergency Control Group - Specific Responsibilities

In addition to general responsibilities, the following specific duties and responsibilities are assigned to individual Emergency Control Group members in a nuclear emergency:

4.4.1 Policy Director - (Mayor or Designate)

The Policy Director is the Mayor or designate and holds the position of Policy Director as the head of the Policy Group.

The Mayor or alternate shall:

- Declare an emergency to exist. Complete the “Declaration of an Emergency” form (see Appendix F).
- Direct CEMC to notify the Minister of Community Safety and Correctional Services of the declaration of an emergency and of the termination of an emergency.
- Support actions to make orders, not contrary to law, to implement the Plan and to protect the property, health, safety, and welfare of the inhabitants of the Town.
- Participate in decision making, determining priorities, and issuing strategic directives through the Chief Administrative Officer (CAO) for the resolution of the emergency
- Request assistance from senior levels of government, when required.
- In consultation with the EOC Director and Information Officer, approve news releases and public announcements.
- As the Town of Saugeen Shore’s key spokesperson, address the media as soon as possible after declaring an emergency. Staff advisors shall accompany the Mayor to address technical questions.
- Keep Council updated regarding the situation and actions being taken to resolve the emergency.
- Terminate the emergency at the appropriate time and ensure all concerned have been notified.

4.4.2 EOC Director (Chief Administrative Officer)

This position is filled by the Town CAO or designate and has overall authority and responsibility for the activities of the EOC which include:

- Assess the Situation – Gather information about the emergency. Assess the magnitude and severity of the situation to determine the appropriate level of EOC activation.

- Support Site(s) – Provide support to Incident Commanders and Support Agencies and ensure that all actions are coordinated within the established priorities.
- Develop / Approve Action Plans – Prepare EOC action plans with the ECG based on an assessment of the situation and available resources. Set priorities and response objectives for affected areas.
- Inform Others – In consultation with the Information Officer, assist emergency information actions using the best methods of dissemination. Approve press releases and other public information materials. Keep the Policy Group informed.
- Manage the EOC – Establish the appropriate EOC staffing level and continuously monitor organizational effectiveness.
- Liaising with the Incident Commander to confirm the geographical boundaries of the emergency area as declared by the Policy Director (per section 5.2.2); and
- Confirming the adequacy of the expenditure limits as identified in Saugeen Shores Purchasing By-law

4.4.3 Community Emergency Management Coordinator (Fire Chief)

- Remain on call 24 hours a day, seven days a week to receive emergency notifications from the Provincial Emergency Operations Centre and take actions according to the Municipality of Saugeen Shores Emergency Plan.
- Initiate the emergency mass notification app.
- Ensure the Emergency Operations Centre is in a constant state of readiness and initiate and supervise set up of the center when required
- **Prior to activation of the Emergency Control Group, in the case of a general nuclear emergency initiate the public notification system for the contiguous zone without reference to any other authority should there be an ongoing or an expected emission within 6 hours**
 - Advise members of the Emergency Control Group and the Municipal Operations Officer (Chief Administrative Officer) on the content of the Municipal Plan and assist them, to find appropriate information
 - Provide information to the Emergency Information Officer and other Emergency Information Centre staff on the Municipal Plan

4.4.4 Medical Officer of Health

The Medical Officer of Health provides a resource to the Policy Director, EOC Director, Emergency Control Group and other Emergency Control Group members on matters relating to public health.

He/she has the following specific responsibilities:

- Providing liaison with the Manager of the Exposure Screening Facility, area hospitals, and Ministry of Health,
- Explaining and interpreting radiation health effects based on dose information received from the Provincial Emergency Operations Centre,
- Providing public health assistance for the Reception/Evacuee Centre Manager,
- Distributing KI Pills to members of the public at the Reception/Evacuation Centre under the authority of the Provincial Emergency Operations Centre.
- Participating in media conferences as requested by the Emergency Information Centre,
- Arranging for information and counselling services for members of the public,
- Arranging contamination monitoring services and dose assessment for members of the public who live outside the Primary Zone.

4.4.5 Chief of Police

Through the Municipal Operations Centre, he/she initiates and coordinates all activities concerning:

- Initiates Public Alerting as requested or as required
- Traffic control, roadblocks and diversion points
- Security at all Centers and the Town of Saugeen Shores
- Control evacuations

4.4.6 Ontario Provincial Police Representative

The Ontario Provincial Police Representative is the primary liaison with the Traffic Control Centre. Through this Centre, he/she initiates and coordinates all activities associated with:

- Traffic control, roadblocks and diversion points, and
- Security at all Emergency Centers and within the Primary Zone around the Bruce Power Site.

4.4.7 Bruce County Social Services Representative

They are responsible for relaying information and requests for assistance to and from their respective organizations, particularly as it relates to evacuation of the public. They assist and relay all Emergency Control Group information to the Reception/Evacuee Centre Manager. They handle any specific requests the Reception/Evacuee Centre might have with regards to securing food, drink, lodging requirements etc.

They coordinate all activities and information with respect to their own organizations.

4.4.8 Bruce Power Liaison Officer

The Bruce Power Liaison person is the primary contact between the Emergency Control Group and the Bruce Power emergency response organization off-site. All information regarding the nuclear emergency and actions being taken will be disseminated through the Provincial Emergency Operations Centre to the Emergency Control Group.

He/she has the following specific responsibilities:

- Requesting extraordinary services from the Municipality - examples may be as follows:
 - trucks or heavy equipment
 - extra road clearing or maintenance
 - establishing car or bus pools at the edge of the Primary Zone or other locations
 - extra security arrangements or traffic control
 - communications support
 - firefighting, search & rescue, or ambulance back-up
 - counselling and/or mortuary services for Bruce Power staff and families
 - Hospitalization of casualties.

- Providing liaison between the Emergency Control Group, the Emergency Worker Centre, the Remote Exposure Control Desk, and the Monitoring & Decontamination Unit at the Reception/Evacuee Centre,
- Arranging extraordinary radiation and contamination monitoring services
- Coordination of Site evacuations and access with the Municipality,
- Informing Bruce Power Site Management of Municipal decisions and activities.

4.4.9 Ontario Emergency Management Sector Officer

The Emergency Management Sector Officer is the primary source of information to and from the Provincial Emergency Operations Centre. All official directives from the Provincial Emergency Operations Centre are directed through them. Until the Emergency Management Ontario Officer is in place at the Emergency Operations Centre, all directives and information will be sent through the Provincial Emergency Operations Centre directly.

The Emergency Management Sector Officer has the following specific responsibilities:

- Relaying Provincial Directions to the Emergency Control Group and ensuring they are understood and acted upon,
- Advising on or explaining the Provincial Nuclear Emergency Response Plan to the Emergency Control Group,
- Tracking and reporting on the progress of emergency actions and any other information of significance to the Provincial Emergency Operations Centre,
- Relaying and resolving concerns or questions of the Emergency Control Group regarding emergency information and actions.
- Acting as a link between the Emergency Control Group and other Provincial Ministries and Agencies.
(Should the link be interrupted refer to 2.8, pg. 16 PNERP Part 3 Site Specific)
- Advising and assisting the Head, Emergency Control Group in carrying out his/her functions,
- Arranging for Provincial or Federal resources from outside Bruce County.

4.4.10 Director of Public Works

- Arrange and coordinate Public Works issues as they pertain to the Emergency as requested by the Traffic Control Centre i.e.: transport Coast Guard staff to and from the Emergency Worker Centre as required.
- Advise the Head of the Emergency Operations Centre on issues relating to the Emergency and Public Works issues.
- Coordinate Public Works staffing requirements as they pertain to the emergency.

4.4.11 Director of Community Services

- Ensure that all Emergency Centers are open and ready to accept evacuees if necessary
- Assist where necessary, other Municipal Department with staff or equipment
- Advise the Head of the Emergency Operations Centre on issues relating to the Emergency and Community Services issues

4.4.12 Deputy Fire Chief

The Deputy Fire Chief is the primary liaison between the two municipal fire stations and other fire departments within Bruce County. He/she initiates and coordinates all activities associated with:

- Fire suppression and rescue
- Motor vehicle extrications
- Activation of the Bruce County Mutual Fire Aid plan
- Assisting with vehicle decontamination of vehicles at the Reception/Evacuation Centre and the Emergency Worker Centre
- Scheduling and rotation of firefighting staff

4.4.12 Emergency Information Officer

The Emergency Information Officer is primarily responsible for ensuring timely and accurate information is distributed to the public via normal media outlets as required during an emergency. Specific responsibilities include:

- Creating municipal portions of Emergency Information Centre media releases
- Assisting the Policy Director with the creation of media releases
- Liaising with media representatives
- Escorting media representatives during on-site visits if necessary
- Verifying media credentials
- Updating media advisories on Municipal website

4.5 Municipal Emergency Organization - Support Functions

There are many activities, agencies and organizations that would be required to support the Municipal emergency response effort. These are listed as follows:

1. Emergency Social Services, including radiation monitoring and decontamination for residents of the primary Zone, is coordinated at the **Reception/Evacuee Centre**.
2. Dose Control for emergency workers and other persons (excluding Bruce Power staff) who must enter the Primary Zone is performed at the **Emergency Worker Centre**.
3. Media & Public Information is prepared, coordinated, and delivered at the **Emergency Information Centre**.
4. Public Health Matters and activities associated with the Public's Radiation Exposure Plan are carried out at the Bruce-Grey-Owen Sound Health Unit.

Chapter 5 - Municipal Emergency Centre's

5.1 Introduction

There are five (5) facilities that are designated as Emergency Centre's. These are described below along with a brief description of the functions they are to perform. Detailed procedures for the set up and operation of these Centers are described in Appendix A - "STANARD OPERATING GUIDELINES (S.O.G.)".

5.2 Emergency Operations Centre

This Emergency Centre is located in the Council Chambers located at the Town's

Office Complex. The primary purpose of the Emergency Operations Centre is to provide a location for the Emergency Control Group to gather to coordinate and effect decisions concerning emergency operations. The Community Emergency Management Coordinator is responsible to ensure the Emergency Operations Centre is suitably equipped and ready for operation.

5.3 Emergency Information Centre

The Emergency Information Centre is located at the Bruce County Museum & Cultural Centre. The primary purpose of this facility is to provide a location for Emergency Information Centre staff to:

- (a) Issue news releases and conducts press conferences.
- (b) Keep the Provincial Emergency Operations Centre informed of public and media perception and reactions.
- (c) Identify and counter rumors.
- (d) Assist the media.
- (e) Monitor the issue of Public Action Directives.
- (f) Conduct a public enquiry and information service.
- (g) Issue any news releases on behalf of the local Emergency Centers. All news releases should be handled through the Emergency Information Centre.

The Community Emergency Management Coordinator is responsible for ensuring this facility is suitably equipped and ready for operation.

5.4 Reception/Evacuee Centre

The Reception/Evacuee Emergency Centre is located at The Plex. The primary functions of Reception/Evacuation Centre staff are:

- (a) To register evacuees and answer inquiries from friends and relatives as to their whereabouts, to provide emergency supplies and services to evacuees, i.e., shelter, food, clothing. **(Red Cross)**
- (b) Provide temporary financial assistance, transportation and other services. **(Bruce County Social Services)**
- (c) To provide a location where evacuees and the public can receive

information and counselling, both in an individual and group setting.

- (d) To monitor evacuees for contamination and decontaminate them and their vehicles if necessary. **(Bruce Power)**
- (e) To provide a location where evacuees can be categorized and referred for follow up treatment in the event of suspected high exposure to radiation. **(Grey Bruce Health)**

An alternate Reception/Evacuation Centre is location at the Southampton Coliseum. see Appendix A - "S.O.G. for set up".

The Reception/Evacuation Centre Manager **(Bruce County Social Services)**, assisted by the Community Emergency Management Coordinator is responsible for ensuring that the Reception/Evacuation Centre is suitably equipped and ready for operation.

5.5 Emergency Worker Centre

The Emergency Worker Centre is located at the Peel Street Works Yard. Its primary purpose is to provide a location to provide dose and exposure control, monitoring, and decontamination of Emergency Workers, residents, or any other non-Bruce Power staff or visitor who enters the Primary Zone when Stage II of the Traffic Control Plan is implemented.

(Note: Dose and exposure control, monitoring and decontamination of staff entering the Bruce Power Site is the responsibility of Bruce Power.)

If a marine response is required, the Traffic Control Centre Manager will make provisions for transportation of Marine Emergency Workers to and from the Emergency Worker Centre. Public Works has been assigned responsibility to assist with this task.

The Emergency Worker Centre Manager is responsible for ensuring this Emergency Centre Exposure Control Desk is suitably equipped and ready for operation.

5.6 Traffic Control Centre

The Traffic Control Centre is located at Saugeen Shores Police Headquarters with the assistance of the Ontario Provincial Police with assistance from the Ministry of Transportation Ontario. Its primary functions are to implement the Traffic Control & Security Plan (within O.P.P. jurisdiction) as follows:

- (a) Provide sufficient Ontario Provincial Police staff to ensure roads are patrolled and kept clear for evacuation purposes.

- (b) Ensure all non-staffed roadblocks are kept in place.
- (c) Provide staff at check points.
- (d) Provide staff to ensure evacuated areas are cleared and secured.
- (e) Coordinate with all roads maintenance and snow clearing with Ministry of Transportation Ontario and Public Works.
- (f) Coordinate all activities associated with Public Utilities such as gas, hydro, phones, etc.
- (g) Coordinate access for Emergency Services - search & rescue, fire and ambulance services within the Primary Zone.
- (h) Provide security and traffic control for the Reception/Evacuee Centre, the Emergency Worker Centre, and the Emergency Operations Centre.
- (i) Coordinate all marine emergency response with Ontario Provincial Police and Canadian Coast Guard, including establishing provisions to transport Marine Emergency Workers to and from the Emergency Worker Centre (Public Works to assist).

The Traffic Control Centre Manager, assisted by the Community Emergency Management Coordinator, is responsible to ensure the Traffic Control Centre is fully equipped, functional and ready for operation.

Chapter 6 - Emergency Communications

6.1 Additional Phones

The Community Emergency Management Coordinator or alternate carries a cell phone. This phone is used as a 24/7 primary emergency contact for all emergencies.

- Low power portable radios (VHF) are available from the Community Emergency Management Coordinator

6.2 Agency Radios

Radio systems used by local emergency services include:

- Saugeen Shore Police (encrypted trucked)
- Ontario Provincial Police Radio System (trunking)
- Fire Department Radio System (simplex)
- Ambulance Radio System (trunking)
- Public Works Department (simplex)

- Community Services (simplex)
- Marine Radio used by Canadian Coast Guard, Ontario Provincial Police & private craft
- Bruce Power Emergency Worker Centre Staff (Family radios)

Chapter 7 - Emergency Notification & Information

7.1 Introduction

Notification of emergency response staff and the public are the two most important elements of the emergency plan. It is necessary to ensure people are notified promptly, are given the correct information, and are kept informed through the emergency phase of the actions required by them, and the progress of the emergency in general.

7.2 Municipal Emergency Response Organization

The Municipal Emergency Response organization will be notified using the RAVE mass notification application. The Community Emergency Management Coordinator or alternate is responsible for issuing the notification.

The following applies to this plan:

- (1) The Initial Notification from the Bruce Power site to the Provincial Emergency Operations Centre and London Ontario Provincial Police Communications Centre will be accompanied by a simultaneous email / fax.
- (2) Information included in the initial emergency notification from the Bruce Power site will be prescribed by the Provincial Emergency Operations Centre and will contain the following:
 - a. Name and Position of the caller
 - b. Station and Unit involved
 - c. Initial Notification Category
 - Reportable Event
 - Abnormal Incident
 - On-Site Emergency
 - General Emergency
 - d. Brief description of the event
 - system involved
 - has fuel failure occurred
 - e. Is a release expected – time
 - Expected dose
 - f. Are any changes in status expected?
 - g. Suggested Actions

- information only - partial activation - full activation
- h. Expected time of the next update
- i. Phone number to call for further information or clarification
- j. Confirmation of message received.

- (3) After receiving the initial notification from the Provincial Emergency Operations Centre, the Community Emergency Management Coordinator will await confirmation and direction from the Provincial Emergency Operations Centre before proceeding with the Municipal notification. If confirmation is not received within 30 minutes, the Community Emergency Management Coordinator will attempt to contact the Provincial Emergency Operations Centre. If this is not successful, the Community Emergency Management Coordinator will proceed with emergency notification as per this plan.
- (4) Follow up notification and information after the initial notifications will be the responsibility of the Community Emergency Management Coordinator. All emergency notifications and information messages after the initial notifications will be authorized by the EOC Director.
- (5) All initial notifications will be confirmed by email / fax where these are available.

7.2. Municipal Emergency Response Organization

The Notification Plan for notifying the Municipal Emergency Response Organization is documented in the Saugeen Shores Municipal Emergency Plan - Annex C

7.3 Emergency Notification Back-Up Plan

It is not prudent to rely upon one method of emergency notification. All systems must have at least one back-up. Depending upon circumstances, more than one method may be used at one time. In all cases, however, the Community Emergency Management Coordinator is responsible for activating the emergency notification system and for deciding how it will be implemented depending on circumstances at the time. The following method(s) is Saugeen Shores Back-up Plan for notifying the Emergency Response Organization:

1. RAVE Mass Notification App – Cell phone, home phone, email, text
2. Rogers cellular telephone carrier
3. Personal Contact or Courier.

FIGURE 7.2

Municipal Emergency Notification Plan Part B - Secondary Notification

POSITION		CONTACTS
1.	Community Emergency Management Coordinator	- Alternates
2.	Mayor	-Deputy Mayor
3.	Ontario Provincial Police Representative	- Alternates -Ontario Provincial Police Organization
4.	Chief Administrative Officer	- Alternates -Municipal Staff -Emergency Control Group Administrative Assistant
5.	Duty Officer	- Alternates
6.	Medical Officer of Health	- Alternates -Bruce-Grey-Owen Sound Health Unit -Clinical Assessment Organization (Including Counsellors)
7.	Saugeen Shores Fire Chief	-Station Chiefs at Port Elgin and Southampton
8.	Saugeen Shores Chief of Police	-Sgt. -Staff
9.	Bruce County Social Services	-St. John Ambulance - Alternates -Provincial Social Services -Red Cross -Bus Lines - Volunteers
10.	Director of Community Services	-Facility Managers -Staff
11.	Public Works Department	-Staff
12.	Bruce County Community Emergency Management Coordinator	-Managers -Staff -Grey-Bruce Regional Health Centre - Southampton Hospital - South Bruce Regional Health Centre -Kincardine -London Central Ambulance Communications Centre

Note: Each position noted above is responsible for establishing a procedure for contacting the persons and organizations shown in this plan

(Section 7) IS THE RESPONSIBILITY OF THE KINCARDINE COMMUNITY EMERGENCY MANAGEMENT COORDINATOR & BRUCE POWER EMERGENCY SERVICES

7.4 Public Alerting System

7.4.1 General

The public in the Contiguous Zone must be notified of an immediate release of radioactive material from the Bruce Power so they can take quick action to minimize their exposure. The Public Alerting System around the Bruce Power site is designed for quick notification of the public within 15 minutes of initial notification to the Provincial Emergency Operations Centre from the Bruce Power.

The public outside the Contiguous Zone will be notified by Radio and TV broadcasts and, if necessary, through mobile Public Address systems and door to door visits by Police and Fire-fighters. These are dispatched through the Traffic Control Centre.

7.4.2 System Description

The Public Alerting System in the Contiguous Zone around the Bruce Power site consists of the following:

1. A series of 10 sirens located within a 3 km radius of the Bruce Power Site, as shown in Figure 7; (activated by Bruce Power as per authorization from the Community Emergency Management Coordinator) should there be an ongoing or expected emission within 6 hours.
2. An automated dialing system provided by Community Alert Network designed to notify residents within the 3km contiguous zone is in place and activated by telephone by the Community Emergency Management Coordinator upon notification from the Provincial Emergency Operations Centre.
3. Ontario Provincial Police and fire department vehicles if required using sirens and Public Address systems to alert residents to listen to local media.
4. The Canadian Coast Guard which broadcasts an emergency message on marine channel 16 and the Marine Radio Continuous Broadcast on channel 83B.

7.4.3 Criteria for Activation

The Public Alerting System in the Contiguous Zone will be activated by the Community Emergency Management Coordinator under the following conditions:

1. When requested by the Provincial Emergency Operations Centre.
2. When initial notifications are a General Emergency and indicate that a significant release is ongoing or expected within the next 6 hours and contact cannot be made with the Provincial Emergency Operations Centre within 30 minutes of the initial emergency notification.

7.4.4 Responsibilities

1. The Community Emergency Management Coordinator is responsible for ordering Bruce Power to activate the Public Alerting System when requested by the Provincial Emergency Operations Centre.
2. The off-site sirens will be activated by the Bruce Power Emergency Services Dispatch when requested by the Community Emergency Management Coordinator.
3. If the Community Emergency Management Coordinator cannot be contacted, the Bruce Power Emergency Services Dispatch may activate the system if ordered by the Provincial Emergency Operations Centre, or if authorized station procedures indicate Public Alerting is immediately required.
4. The Provincial Emergency Operations Centre will order and coordinate all public notification outside the Contiguous Zone.

Chapter 8 - Public Information & Direction

8.0 Introduction

The public emergency information system depends on:

- (a) People being alerted to the fact there is a problem.
- (b) Accurate information being available in a timely manner to ensure that people are aware of what actions they must take to protect themselves, their families, and others in the area that may not know of what they are to do.

The public alerting process is described in section 7.4. It is complemented by the public information system that is comprised of the following elements:

- Media Information
- Public Enquiry
- Public Action Directives & Announcements.

8.1 Media Information

8.1.1 General

All information to the media is coordinated, produced and/or issued through the emergency information Centre. In a nuclear emergency this Centre is the joint responsibility of the Province, Bruce Power and the local Municipalities.

The Emergency Information Centre is located at the Bruce County Museum & Cultural Centre.

The Emergency Information Centre is established if the Municipal Emergency Plan is either partially or fully activated.

A fundamental policy and strategy of this plan is that:

“All formal news releases and contact with the media dealing with a nuclear emergency is coordinated by and produced from the Emergency Information Centre”.

However, it is also recognized that there will be a need to provide information and services to the media at locations other than the Emergency Information Centre at the Reception/Evacuee Centre and the Emergency Worker Centre. Therefore, if it becomes necessary to provide information, interviews, or photo opportunities to the media at locations other than the Emergency Information Centre, it shall be conducted by people who are either provided or authorized by the Emergency Information Centre Manager, and briefed by the Manager on a regular basis. The Manager of each Centre is responsible for recognizing the need for an on-scene

spokesperson and obtaining assistance through his or her Emergency Control Group contact.

Additionally, in that the Emergency Information Centre is not established after a Reportable Event or Abnormal Incident, or in the early phases of the incident, in these cases, the Municipality, through the Municipal Spokesperson, may issue information to the media or the public. This must be approved by the head, Emergency Control Group and the Provincial Emergency Operations Centre.

8.1.2 Emergency Information Centre Functions

The following functions are performed at the Emergency Information Centre:

- Issue news releases.
- Conduct press conferences and other media briefings.
- Monitor media coverage and public information and keep the emergency organization informed.
- Identify rumors and incorrect information and correct them.
- Assist the media.
- Monitor Public Action Directives and confirm to the Provincial Emergency Operations Centre.
- Provide information to the public, individually by phone, and collectively by preparing information bulletins and conducting public meetings across the emergency

8.1.3 Emergency Information Officer

The Emergency Information Officer shall be designated to represent the Policy Director, Municipalities and agencies. This person will be a Municipal Staff member. He/she should be accustomed to speaking in public, trained and familiar with the Emergency Plan and a credible and respected member of the community.

This person (and alternates), termed the Emergency Information Officer, will join the Emergency Control Group for any emergency category.

- (a) He/she may be the only official spokesperson for the Emergency Control Group.
- (b) He/she will be a member of the Emergency Information Centre and will participate in all formal press conferences.
- (c) He/she will provide the liaison between the Emergency Information Centre and Emergency Control Group and provide information to the Emergency Information Centre staff on the Municipal portion of the emergency response effort, and the Municipal Nuclear Emergency Response Plan.

Whenever addressing the media, the following should apply:

- Whenever possible, media inquiries should be directed to the Emergency Information Centre
- When this is not possible, information provided should be factual, concise, not speculative, and restricted to the area of the person's knowledge and expertise.

8.2 Public Inquiries & Information

Prior to establishing the Emergency Information Centre, a person at the Municipal offices shall be designated to handle calls and inquiries related to the emergency. Once the Emergency Information Centre is established that person(s) shall join the Public Enquiry section of the Emergency Information Centre and all calls from the public should be directed to the Emergency Information Centre. If the Municipal offices are closed, all telephones will be call-forwarded to the Public Enquiry phones at the Emergency Information Centre or voice mail established to advise of the new phone number for the Municipality.

When the Emergency Information Centre is established, the Public Enquiry phone numbers will be broadcast over the news media. This action is the responsibility of the Emergency Information Centre.

In addition to individual inquiries, it will be necessary to provide general information to the public to advise them of actions being taken to deal with the emergency. This may be done by:

- providing announcements, news releases, or press conferences
- broadcasting paid messages over the radio and TV or paying for advertisements in local newspapers,
- delivering information sheets door to door, or through the mail,
- providing information over local Cable TV channels,
- conducting public meetings coordinated by the Emergency Information Centre.

If it becomes necessary to conduct public meetings, as identified by the Emergency Information Centre staff or the Emergency Control Group, it shall be organized, coordinated and conducted by the Emergency Information Centre.

Inquiries as to the whereabouts of evacuees will be referred to the Registration & Enquiry section of the Reception/Evacuation Centre.

8.3 Public Action Directives

In addition to general information for the media, the public and press, the emergency response strategy depends on the residents of the Primary Zone being notified of the protective measures they must take to avoid or minimize radiation exposure.

This is done through the issuing of Public Action Directives over local broadcast media. The Provincial Emergency Operations Centre is responsible for preparing and issuing Public Action Directives, and has entered into agreements with the following designated media:

- (1) AM Radio FM Radio
 - CKNX (920)
 - CKNX (101.7)
 - CIXK (106.5) CKYC (93.7) CIBU (94.5) CFPS (97.9)
 - CFOS (560)
- (2) Television
 - CKCO (Kitchener)
- (3) Marine Radio
 - Channel 16
 - Marine Radio Continuous Broadcast Channel

In the event that Public Action Directives are not able to be issued through the public media, Public Action Directives will be printed and distributed door to door by police, firefighters and volunteers.

Chapter 9 - Emergency Operations - Phase I

9.0 Overview

The sequence of operation in the event of an emergency at Bruce Power is as follows:

- (1) Bruce Power informs the Provincial Emergency Operations Centre and London Ontario Provincial Police Communications Centre when event is categorized. The Provincial Emergency Operations Centre will decide the response to be taken within 15 minutes and phone the Community Emergency Management Coordinator. The message is confirmed by email / fax to the St. Catharines Fire Dispatch
- (2) The Community Emergency Management Coordinator will continue Municipal notifications and take whatever early actions are required

according to his/her procedures and assemble all or part of the Emergency Control Group.

- (3) If the Plan is fully activated, the Province and Saugeen Shores will each formally declare an emergency.
- (4) Once the Emergency Control Group is assembled, Protective Measures as described in the section following will be implemented when ordered by the Provincial Emergency Operations Centre. Similarly, if the response level changes as advised by the Provincial Emergency Operations Centre, appropriate actions shall be implemented to deal with that response level.
- (5) Once the initial phase dealing with protecting the public from exposure to radiation due to airborne radioactivity has been implemented, the emergency will then enter Phase II or the follow-up phase, which deals more with recovery and prevention of exposure due to contamination and the ingestion of radioactive material. **See Chapter 10 for Phase II operations.**

9.1 Command and Control

In a nuclear emergency the Provincial Emergency Operations Centre is responsible for all decision making with respect to the emergency. **IN THIS CASE THE EMERGENCY CONTROL GROUP MAY NOT ACT UNILATERALLY.**

**** Should the link for any reason be interrupted between the Emergency Control Group and the Provincial Emergency Operations Centre**

The Emergency Control Group is responsible for issuing orders and directing emergency response within the Municipality during a nuclear emergency as advised by the Provincial Emergency Operations Centre. All orders to implement protective measures within the Municipality will be confirmed in writing, signed by the Head of the Emergency Control Group.

In the early stage of the emergency, the Provincial Emergency Operations Centre and the Community Emergency Management Coordinator may issue orders on behalf of the Provincial Emergency Operations Centre and Emergency Control Group respectively.

The Provincial Emergency Operations Centre may also issue orders directly to any element of the emergency management organization. However, all orders shall be confirmed in writing by the Provincial Emergency Operations Centre to the Emergency Control Group and the Emergency Control Group shall be kept informed of all actions.

9.2 Precautionary Measures

Precautionary measures are early measures taken before a release or in the very early stages of an emergency, to minimize the impact on the public. These measures shall not be implemented unless ordered by the Provincial Emergency Operations Centre.

9.2.1 Closing Beaches, Parks, Recreation Areas

The following fall into this category:

- MacGregor Provincial Park
- Saugeen Beach
- Gobles Grove Beach
- Port Elgin Beach
- North Shore Park
- Southampton Beach
- All Recreational and Sport Parks including, Baseball Diamonds and Skate Parks

- (a) Saugeen Shores Police is responsible for closing beaches and parks and for warning the public within those areas. The Municipality of Saugeen Shores Fire Department may provide assistance as required.

9.2.2 Closing Workplaces

- (1) Saugeen Shores Water Treatment Plant are requested to make preparations to shut down their equipment if the plan is partially or fully activated.
- (2) The Emergency Control Group will take whatever actions are required to accomplish steps within existing law.

9.2.3 Traffic & Entry Control

Traffic Control is implemented in four stages using the Traffic Control Plan developed jointly by the Saugeen Shores Police Department, Ontario Provincial Police, Ministry of Transportation Ontario and the Municipality.

STAGE I

Automatically initiated as soon as the Traffic Control Plan is activated.

STAGE II

Initiated by the Provincial Emergency Operations Centre when it appears that the emergency might require evacuation or when spontaneous evacuation begins to

occur.

STAGE III

Initiated by the Provincial Emergency Operations Centre when it appears particular sectors are likely to be evacuated and when smooth, orderly evacuation is required.

SECTION (9) Is primarily the responsibility of the Kincardine Emergency Management Coordinator

9.3 Protective Measures

9.3.1 Evacuation

(a) General Public

The Provincial Emergency Operations Centre will decide which sectors are required to evacuate based on information received from the Bruce Power Site. If a decision is made to evacuate any sector(s) the Emergency Control Group will be informed and the order issued by the Provincial Emergency Operations Centre over public media via the Emergency Information Centre. If an evacuation is ordered the following actions are required:

1. Each Emergency Control Group member should immediately inform his or her contacts.
2. The Reception/Evacuation Centre should prepare to receive the evacuees.
3. Police will monitor evacuation routes.
4. After a suitable time to allow the main flow of evacuees to leave.
5. Police, with the assistance of the Municipality of Kincardine Fire Department if necessary, will patrol the area to ensure it is cleared if possible.
6. Road blocks should be established around the evacuated area and only persons authorized by the Traffic Control Centre allowed to enter.

Authorized persons would be emergency workers or others authorized by the Traffic Control Centre/Emergency Worker Centre.

7. All persons entering the evacuated area must be registered. Persons other than Bruce Power employees must be processed through the

Emergency Worker Centre and issued dosimetry.

8. All evacuees will be instructed to report to the Reception Evacuee Centre where they will be registered and monitored for possible contamination.
9. **A record shall be kept of all residents of the Contiguous Zone and their names shall be checked off when they register.**
10. After evacuation takes place, the Emergency Information Centre is responsible for providing information to evacuees, both collectively and individually. When it is safe to return to their homes, evacuees will be informed by Emergency Information Centre via the local media.
11. Bruce County Social Services representative on the Emergency Control Group is responsible for arranging transportation for evacuees, including disabled persons under home care, if required. The Emergency Operations Centre will communicate the phone number for persons requiring transportation, to the Provincial Emergency Operations Centre for inclusion in the Public Action Directives. The Public Action Directives issued by the Provincial Emergency Operations Centre will include the Public Enquiry phone number for persons requiring transportation to evacuate. Emergency Information Centre procedures will identify a process for informing the Reception/Evacuation Centre of transportation requirements.

(b) Bruce Power Site

If Bruce Power finds it necessary to evacuate the Bruce Power site of non-essential personnel, the Emergency Control Group shall be informed immediately. The Traffic Control Centre will be informed by the Emergency Control Group to ensure evacuation flows smoothly. Any requests for assistance for Bruce Power evacuees or the evacuation process will be through the Emergency Control Group, and the Emergency Control Group shall be kept informed of transportation arrangements.

If it is found necessary to monitor Bruce Power staff off site, this shall be done at the Emergency Worker Centre. Any alternate arrangements for off-site monitoring and decontamination of Bruce Power staff will be discussed with and approved by the Emergency Control Group.

(c) Prompt Evacuations

In the event that an evacuation is necessary in any sector prior to the Reception/Evacuation Centre being established, Municipal staff will be informed directly by the Community Emergency Management Coordinator.

These staff will immediately proceed to the Reception Evacuation Centre, ensure it is either cleared, or opened, depending on the time of day, greet evacuees and direct them to a waiting area to await the arrival of Bruce County Social Services Reception/Evacuation Centre staff.

(d) Secondary Zone Evacuations

The Provincial Emergency Operations Centre will coordinate any evacuations that are required in the Secondary Zone with the appropriate municipality.

9.3.2 Sheltering

In some circumstances, the Provincial Emergency Operations Centre may issue instructions that persons within certain sectors are required to take shelter in their homes, instead of evacuating. It is the responsibility of the Emergency Operations Centre to close parks, beaches, or recreational facilities that fall within its purview. If this is the case, the Provincial Emergency Operations Centre will arrange for a Public Action Directives broadcast to be made through the Designated Media.

Entry Control will be established for all sectors under a sheltering order.

9.3.3 Potassium Iodide (KI) Pills

KI Pills are stocked at the following locations:

1. Reception/Evacuee Centre

Quantities and maintenance of KI Pill stocks, as well as administrative procedures for issuing pills, are described in Appendix N - "Procedures Manual".

If the Provincial Emergency Operations Centre requires that evacuees be issued KI pills, they will inform the Emergency Control Group, who will immediately inform the Reception/Evacuation Centre Manager by phone and Email / fax. A member of the Bruce Grey Owen-Sound Health Unit will be dispatched to the Registration & Enquiry desk at the Reception/Evacuation Centre to administer the pills to all evacuees registering at the desk and any other evacuees who have previously registered.

The Provincial Emergency Operations Centre will prepare an appropriate public announcement regarding the ingestion of KI pills for distribution to the public.

9.4 Ingestion Control

The Province may impose restrictions on livestock and food production by making appropriate announcements over the media. These restriction measures are as follows:

- clearing milk storage,
- banning consumption of food and water which has been exposed outdoors, or meat or dairy products,
- Sheltering animals.

If this occurs, or appears as though it may occur, an agricultural assistance coordinator appointed by the Emergency Control Group, may be assigned to coordinate information and assistance to farmers. This coordinator will work with the Public Enquiry section of the Emergency Information Centre and the Emergency Control Group.

9.5 Post Accident Venting

In the event it becomes necessary to release radioactive material (venting) it shall be done in a controlled manner when favorable weather conditions exist. If possible, venting will occur when the wind direction is towards the lake, at a brisk rate.

If venting will occur, the Provincial Emergency Operations Centre will issue the following “standby for venting” message to the Emergency Control Group and others:

“Radioactive material contained within Bruce Power site may be vented out over Lake Huron at ___(time)____. Recipients of this message should adopt appropriate standby measures.”

This message should be forwarded to all Emergency Control Group contacts by Emergency Control Group staff. Once venting occurs, the Provincial Emergency Operations Centre will issue progress reports and survey results at 1/2 hourly intervals to the Emergency Control Group.

Chapter 10 - Emergency Operations - Phase II

10.1 Introduction

Phase II of the emergency occurs when it is clear that conditions within the damaged reactor are stabilized, and there is no possibility of any further abnormal releases to the environment. The Provincial Emergency Operations Centre will decide when the emergency will change from Phase I to Phase II after appropriate consultation, and will specify a formal date and time. Phase II of the emergency is

directed by the Provincial Emergency Operations Centre.

Phase II is the period when the long-term effects of the emergency are dealt with, and the situation is restored to as close to normal as possible. To do this, the emergency zones are re-defined, and the emergency organization is changed somewhat to reflect the changed roles and tasks.

10.2 Phase II Emergency Zones

In Phase II the Contiguous, Primary and Secondary Zone terminology is changed to Restricted, Buffer, and Ingestion Control Zones as described below. Where possible, these zones will be described by sector as in Phase I, but this may not always be possible or practical. In this case, the Zones will be defined by road name.

(a) **Restricted Zone**

This is an area where external radiation dose rates are quite significant, (>2 rem/annum). Normally these areas would be evacuated and be under entry control (see Appendix 6 - Traffic Control Plan) until the area is decontaminated.

(b) **Buffer Zone**

This zone is an area where external dose rates are lower (<2 rem/annum). It provides an intermediate area to allow contamination from the restricted zone to be controlled, or it may be an area where data on contamination levels may not be complete. It would normally form an outer perimeter around the Restricted Zone.

(b) **Ingestion Control Zone**

These are areas where dose rates are not significant, but where contamination of the environment is such to warrant monitoring and restrictions on water, food products, animals and animal feed.

10.3 Phase II Emergency Management Organization

In Phase II the Municipal Emergency Management function will be somewhat scaled down, and altered slightly to accommodate the different requirements of the restoration phase.

10.3.1 Emergency Control Group

ACTIVITY RESPONSIBILITY

1. Overall emergency management & organization, coordination with other municipalities Head of Emergency Control Group, Chief Administrative Officer
2. Traffic Control & Security Saugeen Shores Police, Ontario Provincial Police (with Ministry of Transportation Ontario assistance)
3. Restoration Public Works Manager / Treasurer
4. Radiation Protection & Decontamination Bruce Power
5. Ingestion Control MOHLTC / Grey Bruce Health Unit
6. County & Provincial Liaison and Support for Provincial Staff Provincial Emergency Operations Centre
7. Financial Services & Administration Chief Administrative Officer
Municipality of Saugeen Shores Treasurer – Municipality of Saugeen Shores

Provincial Ministries are responsible for providing their own working space and accommodations.

10.3.2 Evacuee Assistance Centre

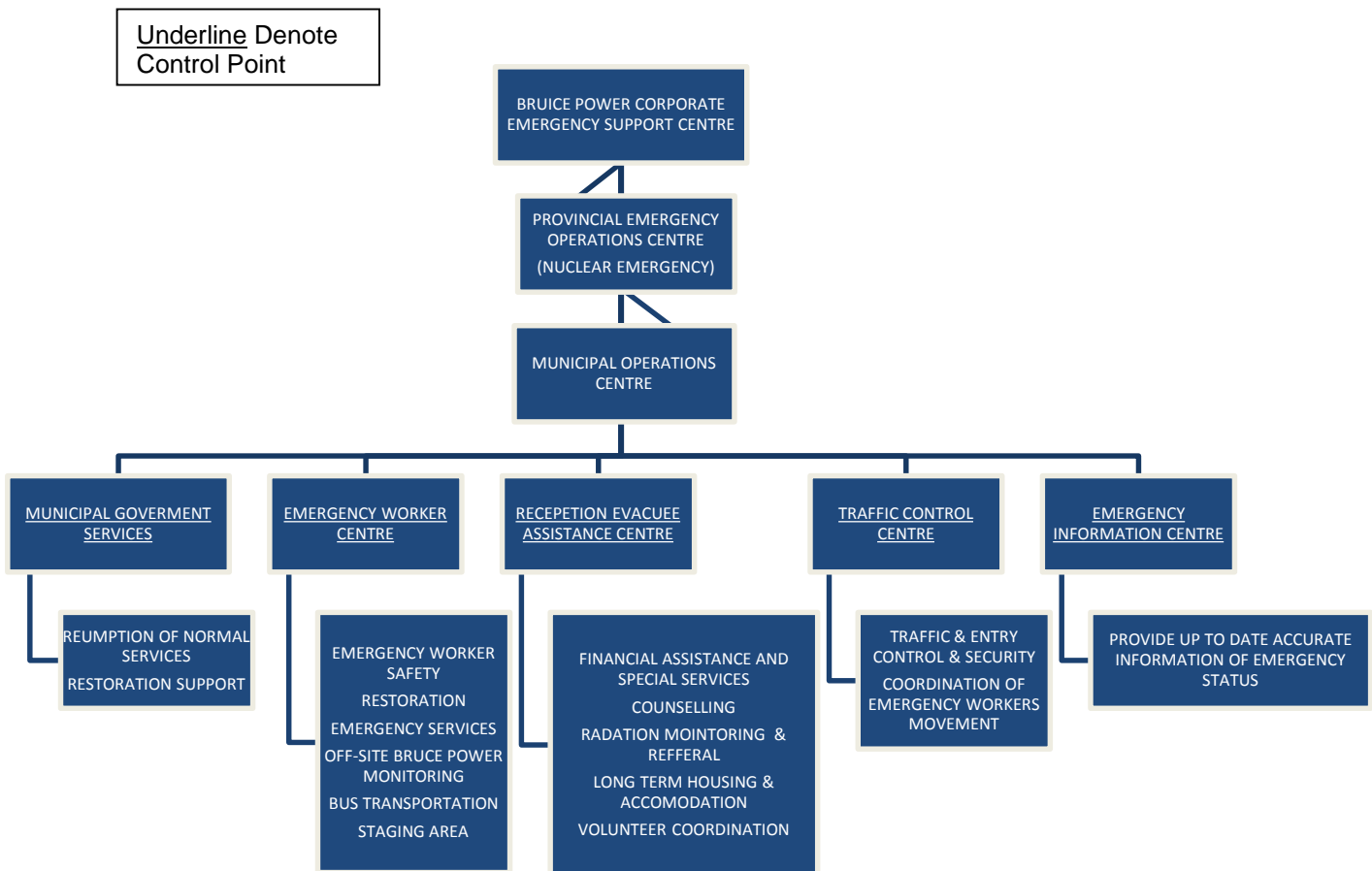
An Evacuee Assistance Centre will be established by Bruce County Social Services. The functions to be performed at this Centre are as follows:

1. Provide information to evacuees; personal, written and in the form of Town Hall style meetings. The Emergency Information Centre is responsible for providing information and organizing and conducting these Town Hall style meetings.
2. Provide counselling services to evacuees and others (Health Unit staff).
3. Monitoring and referral of evacuees and others who may wish to be monitored and receive information on radiation exposure (Health Unit with assistance from Bruce Power).
4. Provide financial assistance, and alternate housing or accommodation for evacuees (Bruce County Social Services)
5. Follow up on contaminated and exposed residents.

10.4 Emergency Information Centre

The Emergency Information Centre will remain set up and functional for as long as the Phase II emergency is in place.

**FIGURE 10.1
PHASE II MUNICIPAL EMERGENCY**



Chapter 11 - Emergency Worker Safety

11.1 Introduction

Bruce Power Inc. is responsible for implementing the measures to ensure the safety of Emergency Workers and for the organization and operation of the Emergency Worker Centre. They are also responsible for providing pre and post exposure briefings as well as radiation safety and procedure training for Emergency Workers.

The Provincial Emergency Operations Centre will determine the measures to be taken for Emergency Worker Safety based on known or projected conditions and transmit this information to the Emergency Control Group in the form of a “Sector Safety Status Code” which defines the level of protection required. These codes are transmitted to all agencies, including the Emergency Worker Centre and/or Remote Exposure Control Desk. All verbal transmission will be confirmed by Email / fax.

11.2 Definition of Emergency Worker

Emergency Workers are defined as non-Bruce Power workers who are required to enter areas likely to be affected by radiation outside the Nuclear Facility Boundary, and for whom special safety arrangements are required. They may include Police, Fire Fighters, Emergency Medical Services, Bruce County Social Services Staff, Canadian Armed Forces personnel, Municipal, County, Provincial or Federal Government staff, Bruce Power, the media, **or residents approved by the Emergency Control Group** to enter the area to tend to livestock or other purposes.

11.3 Emergency Worker Centre & Remote Exposure Control Desk Set-up

1. If the nuclear emergency plan is partially or fully activated, the Remote Exposure Control Desk will be established by Bruce Power.
2. If the nuclear plan is activated, the Emergency Worker Centre will be established. The Remote Exposure Control Desk will be closed when the Emergency Worker Centre is established.

11.4 Sector Safety Status

Sector Safety Status will be defined by radiation dose rates as follows:

GREEN - > Background

ORANGE - > Background to 5 mSv (500 mrem) per hour

RED - > 5 mSv (500 mrem) per hour

In the early stages of an emergency, before the Province officially assigns sector safety status, the following default status will apply.

a) On-Site Emergency, or Plan Partially Activated:

Sector 1 = Orange All Other Sectors = Green

b) General Emergency, or Plan Fully Activated:

Sector 1 = Red Sectors 2, 3, 7, 8 = Orange All Other Sectors = Green

These default values shall apply until the Provincial Emergency Operations Centre advises the Emergency Control Group in writing of the change. This information will be up-dated periodically. During an emission, up-dates will be hourly.

11.5 Radiation Protection of Emergency Workers

The following procedures will apply to Emergency Workers.

If the Plan is partially or fully activated:

1. All Ontario Provincial Police Officers and Ambulance staff currently on duty shift in the Walkerton/Kincardine Area will be dispatched to the Emergency Worker Centre to be issued safety equipment.
2. Safety equipment is defined as:
 - TLD Badge
 - DRDs (one each of 0-500 mrem and 0-5 Rem, or personal electronic dosimeters)
 - KI Pills
 - Respirators
 - Tyvek Coveralls
 - Emergency Information Cards
3. If any sector or sectors are declared "Orange" or "Red", entry control will be established with one entry control point only. (located in Traffic Control Plan)

A record shall be kept of all personnel entering and leaving the sector(s).

4. Dose control procedures will be established by the Emergency Worker Centre to ensure unqualified persons or pregnant females are not

exposed, and/or to ensure maximum permissible limits are not exceeded, and that Emergency Worker Precautionary Measures as identified in the Provincial Nuclear Emergency Response Plan are complied with.

5. All vehicles and personnel leaving an “Orange” or “Red” sector will be directed to the Emergency Worker Centre for monitoring, decontamination if necessary, and dose assessment.
6. A qualified escort will be provided by the Emergency Worker Centre for any emergency worker entering a “Red” sector.
7. If it is established that vehicles or personnel are being contaminated, measures shall be taken to ensure that contamination is contained at the entry control point to the extent possible. This may include the use of pool vehicles whose use is restricted to the controlled sector(s).