#### THE CORPORATION OF THE TOWN OF AMHERSTBURG

#### BY-LAW NO. 2017-40

#### By-law to adopt an Emergency Nuclear Response Plan for governing the provisions of necessary services during such an emergency

WHEREAS Section 3 of the *Emergency Management and Civil Protection Act, R.S.O.* 1990 c. E9, provides that the Council of a municipality may pass a by-law formulating or providing for the formulation of an emergency plan governing the provision of necessary services during an emergency and the procedures under and the manner in which employees of the municipality and other persons will respond to an emergency.

**AND WHEREAS** Section 3(4) of the *Emergency Management and Civil Protection Act, R.S.O. 1990 c. E9* provides that the Lieutenant Governor in Council may designate a municipality to address a specific type of emergency in its emergency plan and, if so required, the municipality shall include the type of emergency specified in its emergency plan.

**AND WHEREAS** the Town of Amherstburg is a designated municipality under the Provincial Nuclear Emergency Response Plan (PNERP) and required to maintain a Municipal Nuclear Emergency Response Plan.

**NOW THEREFORE** the Council of the Corporation of the Town of Amherstburg hereby enacts as follows;

- That the Amherstburg Nuclear Emergency Response Plan dated May 2017, attached hereto as Schedule "B" and forming part of this By-law is hereby adopted as the nuclear emergency plan governing the provision of necessary services during a nuclear emergency of the municipality and other persons who will respond to the emergency.
- 2. That By-law 2012-119 is hereby amended to include ONLY the Amherstburg Emergency Response Plan for non-nuclear emergencies.
- This By-law shall come into force and take effect on the day of the final passing thereof.

Read a first, second and third time and finally passed this 8th day of May, 2017.

MAYOR - Aldo DiCarlo

**GLERK – Paula Parker** 



## AMHERSTBURG NUCLEAR EMERGENCY RESPONSE PLAN

# (ANERP)



## TABLE OF CONTENTS – NUCLEAR EMERGENCY

TABLE O	F CONTENTS – NUCLEAR EMERGENCY	1
Chapter 1	- General	4
1.1	Introduction	4
1.2	Definition of "Municipality"	4
1.3	Scope	5
1.4	Host Municipality	5
-		
Chapter 2	2 - Planning Basis	6
2.1	Introduction	6
2.2	Emergency Notification Categories	6
	2.2.1 Notification Categories	6
	2.2.2 Liquid Emissions	7
2.3	Emergency Planning Zone	7
	2.3.1 Primary Zone (Figure 2.1)	7
	2.3.2 Secondary Zone (Figure 2.3)	8
Resp	oonse Sectors (Figure 2.2	9
	Figure 2.1	10
	Primary Zone & Response Sectors	10
	Figure 2.2	11
	Response Sector Boundaries	11
	Figure 2.3	12
	Secondary Zone	12
Chanter 2	Concert of Operation	40
Chapter 3		13
3.1		13
3.2	Initial Response	14
	3.2.1 Routine Monitoring	14
	3.2.2 Enhanced Monitoring	14
	3.2.3 Partial Activation	15
	3.2.4 Full Activation	16
Chapter 4	– Provincial and Municipal Emergency Organization	17
4.1	Provincial Emergency Operations Centre (PEOC)	. 17
4.2	Emergency Operations Centre (EOC)	
4.3	Community Control Group - Specific Responsibilities	. 18
	4.3.1 Head Community Control Group (Mayor or Designate)	18
	4.3.2 Municipal Operations Officer (Chief Administrative Officer	), 18
	4.3.3 Community Emergency Management Coordinator (CFMC)	
	4.3.4 Municipal Clerk/Emergency Information Officer	19
	4.3.5 Medical Officer of Health	20
	4.3.6 Amherstburg Police Services/Ontario Provincial Police	

	Representatives	20
	4.3.7 Community Development and Health Commissioner /Red	
	Cross	20
	4.3.8 Office of the Fire Marshal and Emergency Management	
	(OFMEM) Officer	21
	4.3.9 Director of Engineering & Public Works	21
	4.3.10 Fire Chief	21
	4.3.11 Emergency Information Officer Error! Bookmark not def	ined.
4.4	Municipal Emergency Organization - Support Functions	22
5.1	Introduction	23
5.2	Emergency Operations Centre	23
5.3	Emergency Information Centre	23
5.4	Reception/Evacuee Centre	23
5.5	Emergency Worker Centre	24
5.6	Traffic Control Centre	24
5.7	Host Municipality	25
		~ ~
Chapter 6	- Emergency Communications	26
6.1	Landline telephones	26
6.2	Additional Phones and Pagers	26
6.3	Agency Radios	26
6.4	Others	26
Chapter 7	- Emergency Notification & Public Information	27
7.1	Introduction	27
7.2	Municipal Emergency Response Organization	27
7.3	Public Alerting System	28
	7.3.1 General	28
	7.3.2 Criteria for Activation	28
	7.3.3 Responsibilities	28
Chapter 8	Emergency Public Information & Direction	29
8.1	Introduction	29
8.2	Emergency Public Information	29
	8.2.1 Lower Level Response	29
	8.2.2 Higher Level Response	29
	8.2.3 The Provincial Emergency Information Section (EIS)	29
	8.2.4 Municipal Emergency Information Centre (EIC)	30
8.3	Emergency Information Centre Functions	31
8.4	Public Inquiries & Information	31
8.5	Emergency Bulletins	32
Chanter O	Municipal Emergency Operations	22
Chapter 9	– wunicipal Emergency Operations	33
9.1		33
9.2	Command and Control	33
9.3	Precautionary measures	34



9.5       Evacuation       35         9.5.1       Contamination       35         9.5.2       Traffic       36         9.5.3       Family Reunification Prior to Evacuation       36         9.5.4       Mass Care       36         9.5.5       Directing Evacuations       36         9.5.6       Evacuation Arrangements       37         9.5.7       Monitoring and Decontamination       37         9.5.8       Municipal Evacuation Procedures/Actions:       37         9.5.7       Thyroid Blocking       39         9.7       Thyroid Blocking       39         9.7.1       Ingestion Control Measures       40         Chapter 10 - Emergency Operations - Recovery Phase       41         10.2       Transition to the Recovery Phase       41         10.3       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43       11.1         11.1       Introduction       43       11.2         11.2	9.4	Traffic & Entry Control	34
9.5.1       Contamination       35         9.5.2       Traffic       36         9.5.3       Family Reunification Prior to Evacuation       36         9.5.4       Mass Care       36         9.5.5       Directing Evacuations       36         9.5.6       Evacuation Arrangements       37         9.5.7       Monitoring and Decontamination       37         9.5.8       Municipal Evacuation Procedures/Actions:       37         9.6       Sheltering       39         9.7       Thyroid Blocking       39         9.7.1       Ingestion Control Measures       40         Chapter 10 - Emergency Operations – Recovery Phase       41         10.1       Introduction       41         10.2       Transition to the Recovery Phase       41         10.3       Recovery Phase - Emergency Management Organization       41         10.3       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43       43         11.1       Introduction       43         11.2       Definition of Emergency Workers       44         Figure 11.2       46       EMERGENCY WORKER SAFETY       45         Figure 11.1       EMERGENCY WORK	9.5	Evacuation	35
9.5.2 Traffic       36         9.5.3 Family Reunification Prior to Evacuation       36         9.5.4 Mass Care       36         9.5.5 Directing Evacuations       36         9.5.6 Evacuation Arrangements       37         9.5.7 Monitoring and Decontamination       37         9.5.8 Municipal Evacuation Procedures/Actions:       37         9.5.8 Municipal Evacuation Procedures/Actions:       37         9.6 Sheltering       39         9.7 Thyroid Blocking.       39         9.7.1 Ingestion Control Measures       40         Chapter 10 - Emergency Operations – Recovery Phase       41         10.1 Introduction       41         10.2 Transition to the Recovery Phase       41         10.2.1 Criteria       41         10.3.1 Community Control Group       42         Chapter 11 - Emergency Worker Safety       43         11.1 Introduction       43         11.2 Definition of Emergency Worker       43         11.3 Sector Safety Status       43         11.4 Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY.46         Chapter 12 - Training and Education       47         12.1 Training       47<		9.5.1 Contamination	35
9.5.3       Family Reunification Prior to Evacuation.       36         9.5.4       Mass Care       36         9.5.5       Directing Evacuations.       36         9.5.6       Evacuation Arrangements.       37         9.5.7       Monitoring and Decontamination       37         9.5.8       Municipal Evacuation Procedures/Actions:       37         9.5.8       Municipal Evacuation Procedures/Actions:       37         9.5.8       Municipal Evacuation Procedures/Actions:       37         9.5.7       Thyroid Blocking.       39         9.7       Thyroid Blocking.       39         9.7       Ingestion Control Measures       40         Chapter 10 - Emergency Operations – Recovery Phase       41         10.1       Introduction       41         10.2       Transition to the Recovery Phase       41         10.3       Recovery Phase - Emergency Management Organization       41         10.3.1       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43       11.4         11.1       Introduction of Emergency Workers       43         11.2       Definition of Emergency Workers       44         Figure 11.1       EMERGENCY WORKER SAFETY		9.5.2 Traffic	36
9.5.4       Mass Care       36         9.5.5       Directing Evacuations       36         9.5.6       Evacuation Arrangements       37         9.5.7       Monitoring and Decontamination       37         9.5.8       Municipal Evacuation Procedures/Actions:       37         9.6       Sheltering       39         9.7       Thyroid Blocking.       39         9.7.1       Ingestion Control Measures       40         Chapter 10 - Emergency Operations – Recovery Phase       41         10.1       Introduction       41         10.2       Transition to the Recovery Phase       41         10.3       Recovery Phase - Emergency Management Organization       41         10.3.1       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43       43         11.1       Introduction       43         11.2       Definition of Emergency Worker       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45       EMERGENCY WORKER SAFETY       45         Figure 11.2       46       EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY.46       47<		9.5.3 Family Reunification Prior to Evacuation	36
9.5.5       Directing Evacuations       36         9.5.6       Evacuation Arrangements       37         9.5.7       Monitoring and Decontamination       37         9.5.8       Municipal Evacuation Procedures/Actions:       37         9.6       Sheltering       39         9.7       Thyroid Blocking.       39         9.7.1       Ingestion Control Measures       40         Chapter 10 - Emergency Operations – Recovery Phase       41         10.1       Introduction       41         10.2       Transition to the Recovery Phase       41         10.2.1       Criteria       41         10.3       Recovery Phase - Emergency Management Organization       41         10.3.1       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43       43         11.1       Introduction       43         11.2       Definition of Emergency Worker       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45       45         EMERGENCY WORKER SAFETY       46       EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY .46         Figure 11.		9.5.4 Mass Care	36
9.5.6       Evacuation Arrangements       37         9.5.7       Monitoring and Decontamination       37         9.5.8       Municipal Evacuation Procedures/Actions:       37         9.6       Sheltering       39         9.7       Thyroid Blocking.       39         9.7       Thyroid Blocking.       39         9.7.1       Ingestion Control Measures       40         Chapter 10 - Emergency Operations – Recovery Phase       41         10.1       Introduction       41         10.2       Transition to the Recovery Phase       41         10.3.1       Criteria       41         10.3.1       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43         11.1       Introduction       43         11.2       Definition of Emergency Worker       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY.46         Chapter 12 - Training and Education       47         12.1<		9.5.5 Directing Evacuations	36
9.5.7       Monitoring and Decontamination       37         9.5.8       Municipal Evacuation Procedures/Actions:       37         9.6       Sheltering       39         9.7       Thyroid Blocking       39         9.7       Inproid Blocking       39         9.7.1       Ingestion Control Measures       40         Chapter 10 - Emergency Operations – Recovery Phase         10.1       Introduction       41         10.2       Transition to the Recovery Phase       41         10.2.1       Criteria       41         10.3       Recovery Phase - Emergency Management Organization       41         10.3.1       Community Control Group       42         Chapter 11 - Emergency Worker Safety         43       11.2       Definition of Emergency Worker       43         11.2       Definition of Emergency Worker       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45       EMERGENCY WORKER SAFETY       45         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY.46       46       EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY.46         Chapter 13 - Exercises and Drill		9.5.6 Evacuation Arrangements	37
9.5.8       Municipal Evacuation Procedures/Actions:       37         9.6       Sheltering       39         9.7       Thyroid Blocking       39         9.7.1       Ingestion Control Measures       40         Chapter 10 - Emergency Operations – Recovery Phase       41         10.1       Introduction       41         10.2       Transition to the Recovery Phase       41         10.3       Recovery Phase - Emergency Management Organization       41         10.3.1       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43       43         11.2       Definition of Emergency Worker.       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45       EMERGENCY WORKER SAFETY       45         Figure 11.2       46       EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY.46         Chapter 12 - Training and Education       47       47         Chapter 13 - Exercises and Drills       48       13.1       General       48         13.1       General       48       13.2       Testing the Plan       48         13.2       Testing the Plan		9.5.7 Monitoring and Decontamination	37
9.6       Sheltering       39         9.7       Thyroid Blocking       39         9.7.1       Ingestion Control Measures       40         Chapter 10 - Emergency Operations – Recovery Phase       41         10.1       Introduction       41         10.2       Transition to the Recovery Phase       41         10.2.1       Criteria       41         10.3       Recovery Phase - Emergency Management Organization       41         10.3.1       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43       43         11.2       Definition of Emergency Worker       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45       45         EMERGENCY WORKER SAFETY       46       EMERGENCY WORKER SAFETY         Chapter 12 - Training and Education       47       47         Chapter 13 - Exercises and Drills       48       43.2         13.1       General       48         13.2       Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49 <td></td> <td>9.5.8 Municipal Evacuation Procedures/Actions:</td> <td>37</td>		9.5.8 Municipal Evacuation Procedures/Actions:	37
9.7       Thyroid Blocking	9.6	Sheltering	39
9.7.1 Ingestion Control Measures	9.7	Thyroid Blocking	39
Chapter 10 - Emergency Operations – Recovery Phase       41         10.1       Introduction       41         10.2       Transition to the Recovery Phase       41         10.2.1       Criteria       41         10.3       Recovery Phase - Emergency Management Organization       41         10.3       Recovery Phase - Emergency Management Organization       41         10.3.1       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43         11.1       Introduction       43         11.2       Definition of Emergency Worker       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45       45         EMERGENCY WORKER SAFETY       45       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY.46       46         Chapter 12 - Training and Education       47       47         12.1       Training       47         12.1       Training       48         13.1       General       48         13.2       Testing the Plan       48         13.2       Testing the Plan       49         14.3 </td <td></td> <td>9.7.1 Ingestion Control Measures</td> <td>40</td>		9.7.1 Ingestion Control Measures	40
Chapter 10 - Emergency Operations – Recovery Phase       41         10.1       Introduction       41         10.2       Transition to the Recovery Phase       41         10.2.1       Criteria       41         10.3       Recovery Phase - Emergency Management Organization       41         10.3.1       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43         11.1       Introduction       43         11.2       Definition of Emergency Worker       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY .46         Chapter 12 - Training and Education       47         12.1       Training       47         Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         13.4       Responsibilities       49         14.1       General       49         14.2       Responsibilities <td< td=""><td></td><td></td><td></td></td<>			
10.1       Introduction       41         10.2       Transition to the Recovery Phase       41         10.2.1       Criteria       41         10.3       Recovery Phase - Emergency Management Organization       41         10.3.1       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43         11.1       Introduction       43         11.2       Definition of Emergency Worker       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY. 46         Chapter 12 - Training and Education       47         12.1       Training       47         12.1       Training       47         Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         13.4       Responsibilities       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness	Chapter 10	0 - Emergency Operations – Recovery Phase	41
10.2       Transition to the Recovery Phase       41         10.2.1 Criteria       41         10.3       Recovery Phase - Emergency Management Organization       41         10.3.1       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43         11.1       Introduction       43         11.2       Definition of Emergency Worker       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY. 46         Chapter 12 - Training and Education       47         12.1       Training       47         Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         13.2       Testing the Plan       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49	10.1	Introduction	41
10.2.1 Criteria       41         10.3 Recovery Phase - Emergency Management Organization       41         10.3.1 Community Control Group       42         Chapter 11 - Emergency Worker Safety       43         11.1 Introduction       43         11.2 Definition of Emergency Worker       43         11.3 Sector Safety Status       43         11.4 Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY. 46         Chapter 12 - Training and Education       47         12.1 Training       47         Chapter 13 - Exercises and Drills       48         13.2 Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1 General       49         14.2 Responsibilities       49         14.3 Public Education & Awareness Delivery Methods       49	10.2	Transition to the Recovery Phase	41
10.3       Recovery Phase - Emergency Management Organization       41         10.3.1       Community Control Group       42         Chapter 11 - Emergency Worker Safety       43         11.1       Introduction       43         11.2       Definition of Emergency Worker       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY       47         Chapter 12 - Training and Education       47         12.1       Training       47         Chapter 13 - Exercises and Drills       48         13.2       Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49		10.2.1 Criteria	41
10.3.1 Community Control Group       42         Chapter 11 - Emergency Worker Safety       43         11.1 Introduction       43         11.2 Definition of Emergency Worker       43         11.3 Sector Safety Status       43         11.4 Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY. 46         Chapter 12 - Training and Education       47         12.1 Training       47         Chapter 13 - Exercises and Drills       48         13.2 Testing the Plan       48         13.2 Testing the Plan       49         14.1 General       49         14.2 Responsibilities       49         14.3 Public Education & Awareness Delivery Methods       49	10.3	Recovery Phase - Emergency Management Organization	41
Chapter 11 - Emergency Worker Safety       43         11.1       Introduction       43         11.2       Definition of Emergency Worker       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY       46         Chapter 12 - Training and Education       47         12.1       Training       47         Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49		10.3.1 Community Control Group	42
Chapter 11 - Emergency Worker Safety       43         11.1       Introduction       43         11.2       Definition of Emergency Worker       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY       46         Chapter 12 - Training and Education       47         12.1       Training       47         Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49			
11.1       Introduction       43         11.2       Definition of Emergency Worker.       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY. 46         Chapter 12 - Training and Education       47         12.1       Training         47       47         Chapter 13 - Exercises and Drills       48         13.1       General         48       13.2         13.2       Testing the Plan         48       49         14.1       General         49       42         41.3       Public Education & Awareness         49       43         41.3       Public Education & Awareness Delivery Methods	Chapter 1	1 - Emergency Worker Safety	43
11.2       Definition of Emergency Worker.       43         11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY.       46         Chapter 12 - Training and Education       47         12.1       Training       47         Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49	11.1	Introduction	43
11.3       Sector Safety Status       43         11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY . 46         Chapter 12 - Training and Education       47         12.1       Training         47       47         Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49	11.2	Definition of Emergency Worker	43
11.4       Radiation Protection of Emergency Workers       44         Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY . 46         Chapter 12 - Training and Education       47         12.1       Training         A7       47         Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49	11.3	Sector Safety Status	43
Figure 11.1       45         EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY .46         Chapter 12 - Training and Education       47         12.1       Training         47       47         Chapter 13 - Exercises and Drills       48         13.1       General         48       13.2         Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49	11.4	Radiation Protection of Emergency Workers	44
EMERGENCY WORKER SAFETY       45         Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY . 46         Chapter 12 - Training and Education       47         12.1       Training         47       47         Chapter 13 - Exercises and Drills       48         13.1       General         48       13.2         13.2       Testing the Plan         48       48         14.1       General         49       44.2         14.3       Public Education & Awareness Delivery Methods		Figure 11.1	45
Figure 11.2       46         EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY. 46         Chapter 12 - Training and Education       47         12.1       Training       47         Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49		EMERGENCY WORKER SAFETY	45
EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY .46 Chapter 12 - Training and Education		Figure 11.2	46
Chapter 12 - Training and Education       47         12.1       Training       47         Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49		EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY.	46
Chapter 12 - Training and Education       47         12.1       Training       47         Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49			
12.1 Training	Chapter 12	2 - Training and Education	47
Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49	12.1	Training	47
Chapter 13 - Exercises and Drills       48         13.1       General       48         13.2       Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1       General       49         14.2       Responsibilities       49         14.3       Public Education & Awareness Delivery Methods       49			
13.1       General	Chapter 13	3 - Exercises and Drills	48
13.2 Testing the Plan       48         Chapter 14 - Public Education & Awareness       49         14.1 General       49         14.2 Responsibilities       49         14.3 Public Education & Awareness Delivery Methods       49	. 13.1	General	48
Chapter 14 - Public Education & Awareness	13.2 1	Testing the Plan	48
Chapter 14 - Public Education & Awareness			
14.1General	Chapter 14	4 - Public Education & Awareness	49
14.2Responsibilities	14.1	General	49
14.3 Public Education & Awareness Delivery Methods	14.2	Responsibilities	49
	14.3	Public Education & Awareness Delivery Methods	49

# NUCLEAR EMERGENCY

## Chapter 1 - General

## 1.1 Introduction

The overall response by Provincial and Municipal Organizations to a nuclear emergency at the Enrico Fermi 2 (Fermi) site is described in three provincial documents:

- 1. Provincial Nuclear Emergency Response Plan (PNERP) Master Plan
- 2. Provincial Nuclear Emergency Response Plan Implementing Plan for Fermi 2 Nuclear Generating Station
- 3. Provincial Nuclear Emergency Response Plan Other Radiological Emergencies

These plans describe the overall emergency organization and response by Provincial organizations, and the response of the Town of Amherstburg.

The Provincial plans require that plans and procedures be prepared by the Municipality around the Fermi site, to deal with a nuclear emergency, and that these Municipal 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.

On September 12, 2016, Council supported amendments to the Town of Amherstburg's primary zone from 23km to 16km, as well as additional amendments in the PNERP for a more equitable emergency response in the event of a Fermi 2 Nuclear Emergency. Until such time as the proposed amendments to the PNERP are approved by Cabinet, the 23km primary zone will remain unchanged. Once the amendments are approved, this plan will be revised to ensure conformity with the new PNERP.

This INTERIM plan then, describes the Municipal organization, which is established in response to a nuclear emergency at the Fermi site, and how the Municipality will implement the directives of the Provincial organization, and support the overall Provincial emergency response until the amendments to the Provincial plans are complete.

## 1.2 Definition of "Municipality"

Designated Municipality: A municipality in the vicinity of a nuclear facility which has been designated under the Emergency Management and Civil Protection Act, as one that shall have a nuclear emergency plan.

Within the context of this plan, the following entities will have roles and responsibilities in the event of a Fermi 2 nuclear emergency of:

- (a) The elected officials and staff of the Town of Amherstburg,
- (b) Local emergency services organizations, i.e. Police, Fire and Ambulance,
- (c) County Government and staff, including Roads Department and City of Windsor

Community Development and Health Commissioner,

- (d) Adjoining Municipalities,
- (e) The Windsor Essex County Health Unit and local hospitals,
- (f) Greater Essex County District School Board and the Windsor Essex Catholic District School Board,
- (g) Local volunteer organizations and service clubs, including Red Cross and St. John Ambulance and,
- (h) Local businesses and recreational facilities.

#### 1.3 Scope

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

## 1.4 Host Municipality

**Host Municipality Definition**: The municipality assigned responsibility in the Provincial Nuclear Emergency Response Plan for the reception and care of people evacuated from their homes in a nuclear emergency (PNERP ANNEX K Nuclear and Radiological Glossary).

The Provincial Nuclear Emergency Response Plan designates municipalities to act as a Host Municipality in the event of a nuclear emergency. Host municipalities will have plans for the reception and accommodation of evacuees, and for coordination of monitoring and decontamination arrangements. The designated Host Municipalities for Amherstburg during a nuclear emergency are the City of Windsor and the Town of Essex.

Activation of the City of Windsor and Town of Essex Nuclear plan is achieved through a formal notification system from OFMEM Duty Officer to the designated municipality and the host municipalities.

## Chapter 2 - Planning Basis

## 2.1 Introduction

The Provincial Nuclear Emergency Response Plan - Implementing Plan for Fermi 2 Nuclear Generating Station 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 in four groups in ascending order of severity. A fifth category - liquid emissions is a waterborne release from nuclear facility (see section 2.2.2).

## 2.2 Emergency Notification Categories

#### 2.2.1 Notification Categories

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

1. <u>Unusual Event:</u> Unusual events are in progress or have occurred that indicate a potential degradation of the level of safety of the plant. No releases of radioactive material requiring offsite response or monitoring are expected unless further degradation of safety systems occurs.

Provincial and municipal duty staff will monitor the situation. [Routine Monitoring]

 <u>Alert</u>: Events are in progress or have occurred that involve an actual or potentially substantial degradation of the safety of the plant. Any releases of radioactive material are expected to be limited to a small fraction of the U.S. Environmental Protection Agency (EPA) Protection Action Guides (PAG) exposure levels.

Provincial/municipal emergency response staff will normally monitor the situation from their operations centres. Other provincial and municipal staff is notified to remain available to report for duty. [Enhanced Monitoring]

3. <u>Site Area Emergency:</u> Events are in progress or have occurred that involve actual or likely major failures of plant functions needed for protection of the public. Any releases of radioactive material are not expected to exceed PAG exposure levels, beyond the site boundary.

Response plans are either partially or fully activated, depending on the absence/presence of an ongoing or imminent emission. Provincial and Municipal emergency operation centres are fully staffed. Municipal centres are set up and staffed as required. EIC and JTCC are set up and staffed to begin operation. [Partial Activation/Full Activation]

- - 4. <u>General Emergency</u>: Events are in progress or have occurred that involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity. Release of radioactive material can be reasonably expected to exceed PAG exposure levels offsite for more than the immediate site area.

Response plans and organizations are fully activated and, if necessary, appropriate protective measures are taken. [Full Activation]

#### 2.2.2 Liquid Emissions

- (a) Liquid emission is a waterborne release from a nuclear facility resulting in discharges with above normal levels of radioactivity.
- (b) The main radiation exposure pathway for a liquid emission from Fermi is through contamination of the water supply, with the resulting hazard being the subsequent ingestion of such contaminated water.
- (c) Because of the limited hazard posed by a liquid emission, it is dealt with differently from an atmospheric emission of radioactivity, through the Provincial Liquid Emission Response Plan (PLERP), an organizational plan under the PNERP. It prescribes the organization, operating procedures, linkages, notification criteria response measures, criteria for their application, etc. for undertaking a provincial response to a liquid emission.
- (d) A liquid emission response undertaken pursuant to the PLERP may shift to a PNERP response should events escalate to a magnitude where it is deemed appropriate.
- (e) Further, if the PEOC is functioning as a result of the activation of the PNERP, any liquid emission from Fermi will be dealt with under the PNERP, irrespective of whether the original activation of the PEOC was for a Fermi or any other nuclear emergency.

#### 2.3 Emergency Planning Zone

#### 2.3.1 Primary Zone (Figure 2.1)

- (a) The Primary Zone is the area around the nuclear installation within which detailed planning and preparedness is carried out for measures against exposure to a radioactive emission. The approximate radius is up to 23 kilometers.
- (b) The Primary Zone for Fermi is shown in Figure 2.1. It includes an area within the Town of Amherstburg

### 2.3.2 Secondary Zone (Figure 2.3)

- (a) The Secondary Zone encompasses all areas of the County of Essex within an 80 km radius of the Fermi Site. The Secondary Zone is shown in Figure 2.3 and includes the Primary Zone.
- (b) The Secondary Zone is the area within which it is necessary to plan and prepare for taking Ingestion Control Measures, based on the monitoring of the food chain for contamination.





## Figure 2.2)

The Primary Zone for Fermi is divided into 7 Response Sectors:

Town of Amherstburg; Holiday Beach Conservation Area	Sector 1
Town of Amherstburg	Sector 2
Town of Amherstburg	Sector 3
Town of Amherstburg	Sector 4
Bob-lo Island	Sector 5
Lake Erie and Detroit River	Sectors 6 and 7

\*The boundaries of the Response Sectors are shown in Figure 2.1







## Figure 2.2

### **Response Sector Boundaries**

SECTOR	MUNICIPALITY	SECTOR BOUNDARY (north; east; south; west)	
1	Town of Amherstburg Holiday Beach C.A.	County Road #20; east side of Big Creek; Collision Road; 7 <sup>th</sup> Concession; County Road #50; the easterly limits of Holiday Beach Conservation Area; Lake Erie.	
2	Town of Amherstburg	Lowes Side Road; Creek Road; South Side Road; 4 <sup>th</sup> Concession; County Road #20; Detroit River.	
3	Town of Amherstburg	The limits of General / Allied Signal; part of Thomas Road; Alma St.; 4 <sup>th</sup> Concession; South Side Road; Lowes Side Road; Detroit River.	
4	Town of Amherstburg	South Side Road; 7 <sup>th</sup> Concession; Collision Road; east side of Big Creek; 4 <sup>th</sup> Concession.	
5	Town of Amherstburg	Bob-lo Island	
6	Detroit River	Detroit River south of Bob-lo Island; Essex County shoreline; a line drawn at 230 degrees from Bailey Beach to the international boundary; the international boundary.	
7	Lake Erie	South boundary of sector 6; Essex County shoreline; a line drawn at 215 degrees from the east end of sector 9 to the international boundary; the international boundary.	

Figure 2.3

Secondary Zone (0-80km)



12

## 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 Fermi site:

- 1. Fermi decides on the emergency notification category based on available information, and within 15 minutes, makes the initial notification to the Provincial Emergency Operations Centre.
- 2. Within 15 minutes of being notified, the Provincial Emergency Operations Centre will decide on the action to be taken as follows:
  - (a) Routine Monitoring
  - (b) Enhanced Monitoring
  - (c) Partial Activation
  - (d) Full Activation
- 3. The Provincial Emergency Operations Centre will then contact the Windsor Fire Dispatch Centre and notify them of the decision. Windsor Fire Dispatch Centre will then contact the Community Emergency Management Coordinator/alternate and inform him/her of the above decision.
- 4. The Community Emergency Management Coordinator/alternate will initiate the notification plan. (Response is described below and in section 3.2).
- If the plan is partially or fully activated, the following Emergency Centres could be established and staffed if decided as described in 3.2.3(3) and 3.2.4(2) respectively:
  - (a) Emergency Operations Centre
  - (b) Emergency Information Centre
  - (c) Reception/Evacuee Centre
  - (d) Traffic Control Centre
  - (e) Emergency Worker Centre
- 6. If the plan is partially or fully activated the entire Community Control Group will assemble at the Emergency Operations Centre, and assume control of Emergency Operations. Until the Community Control Group is fully assembled and activated, the Head of the Community Control Group will authorize any urgent emergency actions.
- 7. The Head of Council/or alternate for the Town of Amherstburg will declare a municipal emergency and immediately notify the Provincial Emergency Operations Centre of this action.
- 8. The Province of Ontario, through the Provincial Emergency Operations Centre will issue directives and orders for Protective Measures to be taken.

9. After immediate actions are taken to protect the public from exposure to radiation during the Response Phase, the emergency will enter the Recovery Phase, 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.

### 3.2 Initial Response

#### 3.2.1 Routine Monitoring

Routine Monitoring would normally be ordered by the Provincial Emergency Operations Centre following an "Unusual Event", unless decided otherwise by the Provincial Emergency Operations Centre.

- 1. Fermi informs the Provincial Emergency Operations Centre of an unusual event. The Provincial Emergency Operations Centre phones the Windsor Fire Dispatch Centre within 15 minutes. Windsor Fire Dispatch Centre then contacts the Community Emergency Management Coordinator of the unusual event.
- 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 listed below informed until requested to stand down by the Provincial Emergency Operations Centre.
- The Community Emergency Management Coordinator and/or alternate will inform the following:
  - (a) Mayor, Town of Amherstburg
  - (b) Medical Officer of Health
  - (c) Administrative Fire Chief
  - (d) Town of Essex Community Emergency Management Coordinator
  - (e) City of Windsor Community Emergency Management Coordinator
  - (f) County of Essex Community Emergency Management Coordinator

#### 3.2.2 Enhanced Monitoring

Enhanced Monitoring would usually be ordered by the Provincial Emergency Operations Centre following an "Alert", unless decided otherwise by the Provincial Emergency Operations Centre.

Fermi informs the Provincial Emergency Operations Centre of an Alert. The Provincial Emergency Operations Centre phones the Windsor Fire Dispatch Centre within 15 minutes. Windsor Fire Dispatch Centre notifies the Community Emergency Management Coordinator.

1. The Community Emergency Management Coordinator/alternate establishes contact with the Provincial Emergency Operations Centre and confirms that Enhanced Monitoring is required.

- - 2. The Community Emergency Management Coordinator/alternate informs the following:
    - (a) Mayor, Town of Amherstburg
    - (b) Medical Officer of Health
    - (c) Administrative Fire Chief
    - (d) Town of Essex Community Emergency Management Coordinator
    - (e) City of Windsor Community Emergency Management Coordinator
    - (f) County of Essex Community Emergency Management Coordinator.
    - (g) Emergency Information Officer
  - If required, the Head of the Community Control Group will request that the Community Control Group, comprised of some or all of the following, assemble at the Emergency Operations Centre:
    - (a) Head, Community Control Group
    - (b) Chief Administrative Officer
    - (c) Medical Officer of Health
    - (d) Police Chief
    - (e) Ontario Provincial Police Representative
    - (f) Emergency Information Officer
    - (g) Community Emergency Management Coordinator and/or alternate
  - 4. The Community 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 a "Site Area Emergency", unless decided otherwise by the Provincial Emergency Operations Centre.

- 1. Fermi informs the Provincial Emergency Operations Centre of a Site Area Emergency. The Provincial Emergency Operations Centre phones the Windsor Fire Dispatch Centre within 15 minutes. Windsor Fire Dispatch Centre contacts the Community Emergency Management Coordinator.
- 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 fan-out notification procedure requesting that all responding agencies place their organizations on standby for both set up and staffing with the exception of the EOC and EIC.
- 3. The Emergency Operations Centre and Emergency Information Centre will be established and staffed. All other centres will be set up and emergency responders for these centres shall remain on standby in a state of readiness should there be a need to assemble.
- 4. The Emergency Information Centre may be requested by the Community Control

Group to issue a news release concerning the above activities.

#### 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. Fermi informs the Provincial Emergency Operations Centre of a General Emergency. The Provincial Emergency Operations Centre phones the Windsor Fire Dispatch Centre within 15 minutes. Windsor Fire Dispatch Centre will notify the Community Emergency Management Coordinator.
- 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 Centres are fully set up and staffed.
  - (b) The Emergency Worker Centre fully set up and staffed.
  - (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.

Windsor Fire Dispatch may be directed to call some or all of the following external contacts:

City of Windsor (through Windsor Fire) Windsor / Essex County EMS Medical Officer of Health School Boards Amherstburg Police Amherstburg Fire Chief Amherstburg Mayor Amherstburg CAO Emergency Information Officer Windsor Fire Essex Fire LaSalle Fire Town of Amherstburg County Emergency Planner

16

## Chapter 4 – Provincial and Municipal Emergency Organization

## 4.1 Provincial Emergency Operations Centre (PEOC)

Overall coordination is provided by the PEOC. Details on the roles and functions of the various elements of this organization are described in the PNERP, Master Plan, Chapter 4.

As per section 1.7.1 of the PNERP, the province will be primarily responsible for managing the offsite consequences of the emergency by supporting and coordinating the offsite response and for directing offsite response. The Provincial response to a nuclear and or radiological emergency will be coordinated through the PEOC. 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.

## 4.2 Emergency Operations Centre (EOC)

The Community Control Group assembles at the EOC and is responsible for the overall coordination and management of the Municipal emergency response.

It is comprised of the following staff:

- (a) Mayor or Acting Mayor Head, Community Control Group
- (b) Chief Administrative Officer or Alternate
- (c) Community Emergency Management Coordinator (CEMC) or Alternate
- (d) Municipal Clerk/Emergency Information Officer or Alternate
- (e) Medical Officer of Health or Alternate
- (f) Fire Chief or Alternate
- (g) Police Chief or Alternate
- (h) Director of Engineering & Public Works or Alternate
- (i) Emergency Medical Services (EMS) or Alternate
- (j) Information Technology Manager or Alternate
- (k) Director of Planning, Development and Legislative Services or Alternate
- (I) Director of Corporate Services/Treasurer or Alternate
- (m) Electrical/Water Utility Representatives (Essex Power/Hydro One) or Alternates
- (n) Ontario Provincial Police Representative
- (o) Community Development and Health Commissioner or Alternate
- (p) Office of the Fire Marshal and Emergency Management

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

- (a) Advising and assisting the Head of the Community Control Group 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 Community Control Group for their own organizations and following up to ensure they are implemented.
- (d) Keeping informed of the emergency situation and actions of their organization and passing this information to the rest of the Community Control Group through regular business cycle meetings.
- (e) Keeping their own organizations informed about the on-going emergency situation and the measures being taken to deal with it.
- (f) Regularly passing nuclear sector safety status information to their organization.

### 4.3 Community Control Group - Specific Responsibilities

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

#### 4.3.1 Mayor or Designate

The Mayor or designate acts as the Head, Community Control Group and has overall responsibility for managing the Municipal emergency response by ordering and coordinating the actions of the various organizations and centres.

Specifically he/she has the following responsibilities:

- (a) Remaining in regular contact with the Provincial Emergency Operations Centre.
- (b) Remaining in contact with the County of Essex Community Emergency
- Management Coordinator and local Municipal, Provincial and Federal elected officials,
- (c) Providing an oversight function to ensure that necessary actions are being carried out by the Community Control Group and the Community Control Group staff are performing adequately,
- (d) Approving municipal portions of Emergency Information Centre media releases,
- Keeping the Emergency Information Officer informed, and participating in media conferences as required,
- (f) Declaring a Municipal Emergency if required.
- (g) Directing the implementation of Protective Actions or other orders by the Provincial Emergency Operations Centre on the advice of the Community Control Group.

#### 4.3.2 Chief Administrative Officer (CAO)

The CAO acts as the Municipal Operations Officer and Chief of Staff for the Community Control Group. He/she has the following specific functions:

- (a) Coordinate Community Control Group activities on behalf of the Head Community Control Group, as requested,
- (b) Advise members of the Community Control Group on the content of the Municipal Emergency plan and assist them to find appropriate information





## 4.3.3 Community Emergency Management Coordinator (CEMC)

- (a) 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 Town of Amherstburg Emergency Plan.
- (b) Initiate the emergency notification system
- (c) Initiate the emergency public alerting system
- (d) Ensure the Emergency Operations Centre is in a constant state of readiness and initiate and supervise set up of the centre when required
- (e) Prior to activation of the Community Control Group, in the case of a general nuclear emergency initiate the public notification system for the primary zone without reference to any other authority should there be an ongoing or an expected emission within 6 hours
- (f) Advise members of the Community Control Group and the Municipal Operations Officer (Chief Administrative Officer) on the content of the Municipal Plan and assist them, to find appropriate information
- (g) Provide information to the Emergency Information Officer and other Emergency Information Centre staff on the Municipal Plan

## 4.3.4 Municipal Clerk/Emergency Information Officer

The Municipal Clerk/Emergency Information Officer is responsible for the overall physical operation of the Emergency Operations Centre including administrative support. He/she has the following responsibilities:

- (a) Ensuring all Emergency Operations Centre decisions and actions are recorded, tracked and acted on when required,
- (b) Ensuring minutes of meetings are kept and critical information is posted on the major event logs,
- (c) Coordinating security of the facilities with the Community Emergency Management Coordinator
- (d) Maintaining a shift schedule and log of persons who enter and leave the Emergency Operations Centre
- (e) Ensuring sector safety status information is passed on to the Municipal organization,
- (f) Maintaining a list of volunteers,
- (g) Arranging for all communications requirements (Liaise with the Community Emergency Management Coordinator), and ensuring all communications are logged,
- (h) Arranging for food, accommodation, rest facilities, and other physical amenities for the Community Control Group as required,
- (i) Arranging for and supervising all clerical support functions for the Emergency Operations Centre which includes:
  - Word processing services
  - Faxes (incoming and outgoing)
  - Filing
  - E-mail messages
  - Phone messages and switchboard operation.
  - Maintaining a chronological board or binder on all written communications

 Maintaining and operating PowerPoint projection system to meet Community Control Group needs i.e. mapping, charts, graphics etc.

As the Emergency Information Officer he/she is the 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:

- (a) Creating municipal portions of Emergency Information Centre media releases
- (b) Assisting the Head of the Community Control Group with creation of media releases
- (c) Liaising with media representatives
- (d) Escorting media representatives during on-site visits if necessary
- (e) Verifying media credentials
- (f) Updating media advisories on Municipal website

#### 4.3.5 Medical Officer of Health

The Medical Officer of Health provides a resource to the Head, Community Control Group and other Community Control Group members on matters relating to public health.

He/she has the following specific responsibilities:

- (a) Providing a liaison with the Manager of the Monitoring and Decontamination Unit, area hospitals, and Ministry of Health and Long-Term Care,
- (b) Explaining and interpreting radiation health effects based on dose information received from the Provincial Emergency Operations Centre,
- (c) Providing public health assistance for the Reception/Evacuee Centre Manager,
- (d) Distributing KI Tablets to members of the public at the Reception/Evacuation Centre under the authority of the Ministry of Health and Long-Term Care.
- (e) Participating in media conferences as requested by the Emergency Information Centre.

#### 4.3.6 Amherstburg Police Services/Ontario Provincial Police Representatives

The Amherstburg Police Services/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:

- (a) Traffic control, road blocks and diversion points, and
- (b) Security at all Emergency Centres.

#### 4.3.7 Community Development and Health Commissioner /Red Cross

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 Community 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.

## 4.3.8 Office of the Fire Marshal and Emergency Management (OFMEM) Officer

The OFMEM Field 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 through the Provincial Emergency Operations Centre directly.

The OFMEM Field Officer has the following specific responsibilities:

- (a) Relaying Provincial Directions to the Community Control Group and ensuring they are understood and acted upon,
- (b) Advising on or explaining the Provincial Nuclear Emergency Response Plan to the Community Control Group,
- (c) Tracking and reporting on the progress of emergency actions and any other information of significance to the Provincial Emergency Operations Centre,
- (d) Acting as a link between the Community Control Group and other Provincial Ministries and Agencies through the PEOC...
- (e) Advising the Head, Emergency Control Group in carrying out his/her functions,
- Arranging through the PEOC for Provincial or Federal resources from outside Essex County.

## 4.3.9 Director of Engineering & Public Works

- (a) Arrange and coordinate Public Works issues as they pertain to the Emergency as requested by the Traffic Control Centre.
- (b) Advise the Head of the Emergency Operations Centre on issues relating to the Emergency and Public Works issues.
- (c) Coordinate Public Works staffing requirements as they pertain to the emergency.

## 4.3.10 Fire Chief

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

- (a) Fire suppression and rescue
- (b) Motor vehicle extrications
- (c) Assisting with vehicle decontamination of vehicles at the Reception/Evacuation Centre and the Emergency Worker Centre
- (d) Scheduling and rotation of firefighting staff

### 4.4 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 who must enter the Primary Zone is performed at the Emergency Worker Centre.



## **Chapter 5 - Municipal Emergency Centres**

## 5.1 Introduction

There are five (5) facilities that are designated as Emergency Centres in Amherstburg. These are described below along with a brief description of the functions they are to perform.

### 5.2 Emergency Operations Centre

This Emergency Centre is located at 3400 Middle Side Road, Amherstburg. The primary purpose of the Emergency Operations Centre is to provide a location for the Community 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 also located at 3400 Middle Side Road, Amherstburg. 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 Information Section, as well as the Municipal EOC, informed of public and media perception and reactions.
- (c) Identify and counter rumours.
- (d) Assist the media.
- (e) Monitor the Emergency Bulletins.
- (f) Conduct a public enquiry and information service.
- (g) Issue any news releases on behalf of the local Emergency Centres. 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 Western Secondary School, 5791 N Townline Rd, Amherstburg. 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.
- (b) Provide temporary financial assistance, transportation and other 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) A Monitoring and Decontamination Unit may be set up at this location to monitor evacuees for contamination and decontaminate them and their vehicles if necessary.

(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.

The Reception/Evacuation Centre Manager, 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 (EWC) is located at 99 Thomas Road, Amherstburg. Its primary purpose is to provide a location to provide dose and exposure control, monitoring, and decontamination of Emergency Workers, or any other staff or visitor who enters the Primary Zone when Stage II of the Traffic Control Plan is implemented.

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.

## 5.6 Traffic Control Centre

The Traffic Control Centre is located at 3400 Middle Side Road, Amherstburg, within the Emergency Operations Centre and is managed by the Amherstburg Police Services and Ontario Provincial Police with assistance from the Ministry of Transportation Ontario. Its primary functions are to implement the Traffic Control & Security Plan as follows:

- (a) Provide sufficient 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 staffs at check points.
- (d) Provide staff to ensure evacuated areas are cleared and secured.
- (e) Coordinate with all roads maintenance and snow clearing with 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.
- 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.

24



## 5.7 Host Municipality

The Provincial Plan designates municipalities to act as a Host Municipality in the event of a nuclear emergency. Host municipalities will have plans for the reception and accommodation of evacuees, and for coordination of monitoring and decontamination arrangements. The Host Municipalities during a nuclear emergency are the City of Windsor and the Town of Essex

## **Chapter 6 - Emergency Communications**

## 6.1 Landline telephones

The primary means of communication during a nuclear emergency are landline telephones.

## 6.2 Additional Phones and Pagers

The Community Control Group carries cell phones. These phones are used as a 24/7 primary emergency contact for all emergencies.

## 6.3 Agency Radios

Radio systems used by local emergency services include:

- (a) Ontario Provincial Police Radio System
- (b) Amherstburg Police Services
- (c) Fire Department Radio System
- (d) EMS Radio System
- (e) Public Works Department
- (f) Marine Radio used by Canadian Coast Guard, Ontario Provincial Police & private craft

### 6.4 Others

The Emergency Operations Centre has one fax machine.

The Emergency Operations Centre uses high-speed wireless internet and 3 laptop computers to be used at the Emergency Operations Centre.





## Chapter 7 - Emergency Notification & Public 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 following applies to this plan:

- The Initial Notification from the Fermi site to the Provincial Emergency Operations Centre and municipality will be accompanied by a simultaneous fax.
- Information included in the initial emergency notification from the Fermi site will be prescribed by the Provincial Emergency Operations Centre and will contain the following:
  - (a) Initial Notification Category:
    - Unusual Event
    - Alert

-

- Site Area Emergency
- General Emergency
- (b) Brief description of the event/condition onsite
- (c) Prognosis: Stable, Escalating, De-escalating or Terminating
- (d) Meteorological Data
- (e) Type of Release: Airborne, Waterborne or Surface Spill
- (f) Radiological Release Data
- (g) Calculated and measured offsite doses
- (h) Protective Action Recommendations
- 3. After receiving the initial notification from Windsor Fire Dispatch, 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 Head, Community Control Group.
- 5. All initial notifications will be confirmed by fax where these are available.

## 7.3 Public Alerting System

#### 7.3.1 General

The Provincial Nuclear Emergency Response Plan details the public alerting requirements for designated municipalities in Ontario.

#### 7.3.2 Criteria for Activation

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

- 1. When requested by the Provincial Emergency Operations Centre.
- 2. In the case of a nuclear emergency with an ongoing or imminent emission of radioactivity the Municipality is authorized to immediately initiate the public alerting system. The PEOC will issue the appropriate Emergency Bulletin.

#### 7.3.3 Responsibilities

- 1. The Community Emergency Management Coordinator is responsible for activating the Public Alerting System when requested by the Provincial Emergency Operations Centre.
- 2. The Provincial Emergency Operations Centre will coordinate all Emergency Bulletins.





## Chapter 8 – Emergency Public Information & Direction

## 8.1 Introduction

The emergency public information system depends on:

- 1. People being alerted to the fact there is a problem.
- 2. 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.

Emergency Public Information system encompasses: Emergency Bulletins; Media Information including News Releases; and Public Enquiry

## 8.2 Emergency Public Information

#### 8.2.1 Lower Level Response

When the offsite response adopted is Routine Monitoring or Enhanced Monitoring all news releases on the event, prepared on behalf of the Province, shall be issued by the Director Communications Branch, MCSCS who acts as the Provincial Chief Emergency Information Officer (PCEIO).

#### 8.2.2 Higher Level Response

- 1. When the offsite response adopted is Partial Activation or Full Activation, the Director of Communications Branch, MCSCS, assumes his/her role as PCEIO, establishing the Provincial Emergency Information Section (EIS), on behalf of the Province.
- 2. The Town of Amherstburg and the federal/provincial government will each have their own emergency information operation.
- 3. In order to ensure the coordination and consistency of all emergency information issued to the public, these other jurisdictions or organizations should inform the Provincial EIS if they plan to issue news releases or other emergency information materials.

#### 8.2.3 The Provincial Emergency Information Section (EIS)

- 1. Located in Toronto, the Provincial EIS is responsible for ensuring that the Province's emergency information is coordinated with the emergency information produced and disseminated by the designated municipalities, nuclear operator, federal partners and other stakeholders to ensure consistent messaging.
- 2. In that regard, wherever possible and practical, information will be shared amongst all partners prior to release.

- 3. The EIS functions include:
  - (a) Coordinating all of the provincial communications related to the nuclear emergency;
  - (b) Issuing provincial emergency information;
  - (c) Sharing and coordinating emergency information with the Municipal EIC to ensure continuity and uniformity of messaging.
  - (d) Sharing copies of all news releases, fact sheets, and other public information materials with EICs prior to release to the public, if or when possible.
  - (e) Sending a liaison officer(s) to the Municipal EIC, if so requested.

#### 8.2.4 Municipal Emergency Information Centre (EIC)

- (a) The Town of Amherstburg will establish an EIC at a Partial or Full Activation response.
- (b) The EIC is responsible for the collection, dissemination and monitoring of local emergency information.
- (c) The Town of Amherstburg may invite neighbouring municipalities, federal and/or provincial liaison officers to participate in the EIC operation.

The Emergency Information Centre is located at 3400 Middle Side Road, Amherstburg.

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

A fundamental policy and strategy of this municipal plan is that:

"All formal municipal 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, in particular, 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 persons 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 Community Control Group contact.

Additionally, in that the Emergency Information Centre is not established after an Unusual Event or Alert, 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, Community Control Group and the Provincial Emergency Operations Centre.





## 8.3 Emergency Information Centre Functions

The following functions are performed at the Emergency Information Centre:

- 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 and conducting public meetings across the emergency

#### 8.4 Public Inquiries & Information

- 1. Provincial public inquires will be coordinated by the Provincial EIS in conjunction with the Ontario Ministry of Health and Long-Term Care, using Service Ontario's hotline.
- 2. The Town of Amherstburg will be responsible for establishing their own public inquiry operation.

Prior to establishing the Emergency Information Centre, the area 211 call centre will be notified and a supervisor requested to attend the Emergency Operations Centre to act as a liaison between the Community Control Group and the 211 call centre. 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 211 call centre.

When the Emergency Information Centre is established, the Public Enquiry phone number (211) 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:

- (a) Providing announcements, news releases, or press conferences
- (b) Broadcasting paid messages over the radio and TV or paying for advertisements in local newspapers,
- (c) Providing information over local Cable TV channels,
- (d) 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 Community Control Group, it shall be organized, and coordinated 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.

### 8.5 Emergency Bulletins

- 1. The PEOC will issue its operational directives in the form of Emergency Bulletins.
- 2. To the extent possible, Emergency Bulletins should be prepared in advance of an emergency.
- Emergency Bulletins will be issued to the broadcast media. Copies will also be sent to the principal elements of the emergency response organization that may be affected by them.

It shall be the responsibility of the PEOC Emergency Information Section to monitor the broadcast of the Emergency Bulletins and confirm that they have been correctly transmitted. This is done through the local broadcast media. The PEOC is responsible for preparing and issuing Emergency Bulletins

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



## Chapter 9 – Municipal Emergency Operations 9.1 Overview

The sequence of operation in the event of an emergency at Fermi 2 is as follows:

- 1. Fermi informs the Provincial Emergency Operations Centre and municipal contact point when event is categorized. The Provincial Emergency Operations Centre will decide the response to be taken within 15 minutes and phones the Windsor Fire Dispatch Centre.
- 2. The Community Emergency Management Coordinator will continue Municipal notifications and take whatever early actions are required according to his/her procedures. The principal actions would be to activate the Public Alerting System, and assemble all or part of the Community Control Group.
- 3. If the Plan is fully activated, the Province and Municipalities will each consider declaring an emergency.
- 4. Once the Community Control Group is assembled, Protective Measures as described in the section following will be implemented when so ordered by the Provincial Emergency Operations Centre. Similarly, if the response level changes as advised by the Provincial Emergency Operations Centre, the 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 the Recovery Phase, which deals more with recovery and prevention of exposure due to contamination and the ingestion of radioactive material.

## 9.2 Command and Control

As per section 1.1.3 of the PNERP, the Province will take the leading role in managing the offsite response. In a nuclear emergency the Provincial Emergency Operations Centre is responsible for all decision making with respect to the emergency. In the event that communications are lost between the PEOC and the Community Control Group, the Community Control Group will make the necessary decisions until such time as communications are reestablished.

The Community 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 Community Control Group.

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 Community Control Group and the Community Control Group shall be kept informed of all actions.

### 9.3 Precautionary Measures

The PEOC shall consider the advisability of issuing operational directives (or, in the event of a declared emergency, advising that such orders have been made) for any or all of the following precautionary measures in the Primary Zone (or part thereof) and adjacent areas. Consideration shall also be given to the most suitable timing for the measures (in the case of a delayed emission it may be appropriate to delay the application of some of them), and issue the necessary bulletins(s) and directions for their implementation. These measures are:

- (a) Closing of beaches, recreation areas, etc.
- (b) Closing of workplaces and schools
- (c) Suspension of admissions of non-critical patients in hospitals
- (d) Entry control
- (e) Clearing the milk storage of dairy farms
- (f) Banning consumption of any item of food or water that may have been exposed outdoors
- (g) Banning consumption and export of locally produced milk, meat, produce, milkand meat-producing animals
- (h) Removing milk- and meat-producing animals from outside pasture and exposed water sources.

## 9.4 Traffic & Entry Control

Traffic Control is implemented in three stages using the Traffic Control Plan developed jointly by Amherstburg Police Service, the Ontario Provincial Police, Ministry of Transportation Ontario and the Town of Amherstburg:

- (a) This plan shall include provisions for preventing traffic on the main evacuation routes from entering the Primary Zone whenever Stage 2 of the plan is put into effect.
- (b) Such through traffic shall be diverted around the Primary Zone via a predesignated diversion route.
- (c) Entry to emergency workers (who have tasks in the zone) shall be permitted on these routes.
- (d) If main traffic routes are likely to remain closed for an extended period, the Joint Traffic Control Centre, under the guidance of the PEOC, shall make alternative routing arrangements. Prior planning for this eventuality will minimize the disruption created by such closures.





#### Joint Traffic Control Plan

A Joint Traffic Control Plan shall be developed for the Primary Zone as well as the main roads entering it. During an emergency, the Joint Traffic Control Centre shall be responsible for implementing the Joint Traffic Control Plan.

The traffic control plan shall be designed to allow implementation in three incremental stages:

- (a) <u>Stage 1</u>. Automatically initiated as soon as the traffic control plan is activated. The aim in this stage shall be to keep traffic flowing smoothly on the main evacuation routes and, to ensure that these routes remain open.
- (b) <u>Stage 2</u>. Initiated when it appears likely that the emergency may require evacuations or, when spontaneous evacuations begin to occur. Traffic shall be prevented from entering the Primary Zone on the main evacuation routes and shall instead be diverted around it (local traffic can still enter the Primary Zone on other routes). However, access should be allowed to emergency workers who have tasks to perform in the Primary Zone. Stage 1 measures will continue.
- (c) <u>Stage 3</u>. Initiated when it appears that particular sectors are likely to be evacuated. Additional resources shall be deployed to ensure that evacuation proceeds smoothly beyond the Primary Zone boundary. Stages 1 and 2 measures will continue.

The timing and order of sector evacuations will be determined by the PEOC, in coordination with the JTCC.

The traffic control plan shall provide, where applicable, for the priority evacuation of any Response Sector(s) if and when ordered.

Operational directives implementing evacuations (or emergency orders issued in the event of a declared emergency) will be accompanied by emergency bulletins issued by the PEOC.

#### 9.5 Evacuation

Evacuation is one of the protective measures considered by the PEOC in a nuclear emergency.

The purpose of an evacuation is to prevent or minimize the exposure of members of the public to the effects of radiation.

All routes will be utilized to evacuate the Primary Zone.

Shadow evacuations may occur spontaneously in areas contiguous to the Primary Zone and thus contribute to the evacuation time for the Primary Zone.

#### 9.5.1 Contamination

In the event of a delayed emission, evacuees are not expected to be contaminated and will therefore not require monitoring and/or decontamination.

In the event of an ongoing or imminent emission, evacuees exposed to the radioactive emission can be expected to have varying levels of contamination.

Contamination, where found, would be in the form of loose particulate on people, their belongings and vehicles.

Internal contamination may be present in individuals exposed to a radioactive emission.

In the event of unforeseen circumstances or adverse conditions, self-decontamination may be the primary means of decontamination, if required.

Monitoring and Decontamination facilities will be required for the evacuating public or for those who desire assurance monitoring.

#### 9.5.2 Traffic

During a nuclear emergency, traffic density on major routes and highways will be significantly increased and therefore, travel time in all directions will be longer than normal.

Traffic control will be required to ensure that evacuations can proceed as smoothly as possible.

#### 9.5.3 Family Reunification Prior to Evacuation

Families will want to reunite and evacuate together, as far as possible.

The ability for families to reunite will depend on the time of day at the onset of the emergency and on the urgency for evacuations to proceed (i.e. timing of the emission).

Factors affecting family reunification include workplace location, school children, residents of hospitals, nursing homes or other institutions, etc.

#### 9.5.4 Mass Care

The majority of evacuees will make their own arrangements for care and lodging. Mass care arrangements will be required for those evacuees without such resources.

Assurances will be required that evacuees requiring either publicly or privately provided accommodation, are not contaminated.

#### 9.5.5 Directing Evacuations

- 1. Evacuations will be directed by Response Sector or groups of sectors, detailing the boundaries of the evacuation area by readily identifiable roads/landmarks.
- 2. Evacuees who may have been exposed to an emission will be directed either to proceed to a Monitoring and Decontamination Unit (MDU) within the designated evacuation/reception centre or, if not possible, to self-decontaminate upon reaching the destination of their choosing. Information on locations for monitoring shall be provided at the time of the emergency.

36

- - 3. Evacuees who are not at risk of being contaminated will be instructed to leave the Primary Zone and will not be directed to an MDU or to self-decontaminate.
  - 4. Evacuees who are not at risk of being contaminated will be permitted to evacuate in the direction and to the destination of their choosing, subject to restrictions (due to weather, traffic conditions etc.) announced by the PEOC through the Emergency Bulletins.
  - 5. The smooth and expeditious movement of evacuee traffic is the responsibility of the traffic control organization set up under the Joint Traffic Control Plan.
  - 6. The Joint Traffic Control Centre will monitor the evacuating traffic and inform the PEOC and the Municipal EOC of any issues impacting the evacuation.

#### 9.5.6 Evacuation Arrangements

Fermi 2 Implementing Plan will provide details regarding the monitoring and decontamination of evacuees in its emergency plan and associated procedures. (To be determined and relied upon after provincial amendments)

#### 9.5.7 Monitoring and Decontamination

The Province and the Town of Amherstburg along with additional stakeholders are currently working towards establishing resources for the Monitoring and Decontamination Units (MDUs) in the Reception Centres at the Emergency Workers Centre and Evacuee Shelters in Amherstburg and Host Municipalities.

- 1. The MDUs will provide assurance monitoring, for those who have undertaken self-decontamination, as well as monitoring and decontamination for those evacuees who either require or desire it upon evacuating the Primary Zone.
- 2. The MOHLTC will develop arrangements, in coordination with the Province hospitals, designated municipalities and their public health units, to track evacuees for the purposes of contamination assessments (internal and external) and to provide follow up with those affected.

#### 9.5.8 Municipal Evacuation Procedures/Actions:

If a decision is made to evacuate any sector(s) the Community 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 Community Control Group member should immediately inform his or her alternates.
- 2. The Reception/Evacuation Centre should prepare to receive the evacuees.
- 3. Police should monitor evacuation routes after a suitable time to allow the main flow of evacuees to leave.

- 4. Police, with the assistance of the Amherstburg Fire Department if necessary, will patrol the area to ensure it is cleared if possible.
- 5. 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.

- All persons entering the evacuated area must be registered and issued dosimetry.
- 7. All evacuees will be instructed to report to the Reception Evacuee Centre where they will be registered and monitored for possible contamination.
- 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.
- The City of Windsor Community Development and Health Commissioner representative on the Community Control Group is responsible for arranging transportation for evacuees, including disabled persons under home care, if required.

Emergency Bulletins 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.

#### a) 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 the City of Windsor Social Services Department and the Red Cross Reception/Evacuation Centre staff.

#### b) Secondary Zone Evacuations

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



38

## 9.6 Sheltering

In the case of an imminent emission, the PEOC operational directive to shelter (or, in the event of a declared emergency, advice that such orders have been made) shall be issued via an Emergency Bulletin at least 4 hours before the emission is expected to commence.

In the case of an ongoing emission, all sectors adjacent to sectors requiring evacuation should be advised by the PEOC via operational directive to shelter (or, in the event of a declared emergency, advise that such orders have been made).

Entry Control will be established through the Traffic Control Plan for all sectors under a sheltering order.

#### 9.7 Thyroid Blocking

The decision to issue an operational directive for thyroid blocking will be made by the Ministry of Health and Long-Term Care (MOHLTC), in coordination with the PEOC. Details regarding thyroid blocking are provided in the MOHLTC's Radiation Health Response Plan.

It is the responsibility of MOHLTC to procure adequate quantities of Potassium Iodide (KI) tablets for the Primary Zone and Secondary Zone population.

Other operational responsibilities regarding Thyroid Blocking (stocking, distribution and administration) are prescribed in the Radiation Health Response Plan, as prepared by MOHLTC.

The decision to implement the administration of KI tablets will be taken by the Chief Medical Officer of Health.

In the unlikely event of a serious accident at a nuclear station, radioactive material may escape, including radioactive iodine. If radioiodine's are inhaled, they are absorbed by the thyroid gland. Thyroid blocking is the prevention or reduction of radioiodine absorption by the thyroid gland through the ingestion of a stable iodine compound, potassium iodide (KI) tablets.

The Town is working with the Windsor-Essex County Health Unit and the Ministry of Health and Long Term Care towards a suitable KI distribution plan. KI Tablets will be distributed in accordance with the plan, once approved. Currently, KI tablets are stored at the office of the Medical Officer of Health and will be transported to the Town of Amherstburg Emergency Worker, Reception and Evacuee Centres and MDUs.

If the Provincial Emergency Operations Centre requires that evacuees be issued KI tablets, they will inform the Municipal Community Control Group, who will immediately inform the Reception/Evacuation Centre Manager by phone and Fax. A member of the Windsor Essex Health Unit will be dispatched to the Registration & Enquiry desk at the Reception/Evacuation Centre to administer the tablets to all evacuees registering at the desk and any other evacuees who have previously registered.

#### 9.7.1 Ingestion Control Measures

Before an emission commences, appropriate ingestion control measures will be directed as a precaution within and, if necessary, adjacent to the Primary Zone.

If environmental monitoring indicates the need, appropriate ingestion control measures will be considered in areas known or suspected to be contaminated.

Based on the data produced by ground monitoring, additional ingestion control measures will be considered, where necessary, while the original precautionary measures may be lifted where appropriate.

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

- (a) Clearing milk storage,
- (b) Banning consumption of food and water which has been exposed outdoors, or meat or dairy products,
- (c) Sheltering animals.

If this occurs, or appears as though it may occur, an agricultural assistance coordinator appointed by the Community 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 Community Control Group.



## Chapter 10 - Emergency Operations – Recovery Phase

### **10.1 Introduction**

The Recovery Phase 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 and direct the transition to Recovery Phase after appropriate consultation, and will specify a formal date and time.

Recovery Phase 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 Transition to the Recovery Phase

#### 10.2.1 Criteria

The PEOC can end the Response Phase of the emergency at any time after both the following conditions are met:

- (a) The nuclear reactor that had the accident is in a guaranteed shutdown state.
- No further controlled or uncontrolled emissions at significant levels are anticipated. Generally, emissions shall be considered below a significant level if:
  - They do not warrant the taking of any exposure control protective measures, and
  - (ii) They do not adversely affect public safety.

#### 10.3 Recovery Phase - Emergency Management Organization

In the Recovery Phase 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 Community Control Group

The Emergency Operations Centre will establish the following.

ACTIVITY		RESPONSIBILITY	
1.	Overall Emergency Management & Organization, coordination with other municipalities	Head, Emergency Control Group (Mayor) & Chief Administrative Officer	
2. Traffic Control & Security		Amherstburg Police Service (with Ministry of Transportation Ontario)	
3.	Radiation Protection & Decontamination	Unknown at this time	
4.	Ingestion Control	MOHLTC/Windsor Essex Health Unit	
5.	County & Provincial Liaison and Support for Provincial Staff	Provincial Emergency Operations Centre	
6.	Financial Services & Administration	Chief Administrative Officer & Treasurer	

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

42

## **Chapter 11 - Emergency Worker Safety**

### **11.1 Introduction**

The Province of Ontario and the Town of Amherstburg are currently working towards establishing resources that will be responsible for implementing the measures to ensure the safety of Emergency Workers and for the organization and operation of the Emergency Worker Centre.

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 Community 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 Fax.

## 11.2 Definition of Emergency Worker

Emergency Workers: A person who assists in connection with an emergency that has been declared by the Lieutenant Governor in Council or the Premier, under 5.7.0.1 of the EMPCA or by the head of council of a municipality under section 4 of the EMCPA. This may include persons who are required to remain in, or to enter, offsite areas affected or likely to be affected by radiation from an accident, and for whom special safety arrangements are required. Examples of emergency workers include police, firefighters, ambulance and personnel from the Canadian Armed Forces, and other essential services. They shall not include nuclear energy workers (pursuant to the Nuclear Safety and Control Act) or assurance (ingestion) monitoring field staff.

Emergency Workers 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, City of Windsor Social Services Department, Canadian Armed Forces personnel, Municipal, County, Provincial or Federal Government staff, the media, or residents approved by the Community Control Group to enter the area to tend to livestock or other purposes.

## **11.3 Sector Safety Status**

As soon as relevant data is available, the PEOC will assign safety status to all the sectors and will update them periodically.

During the course of an emission over the land areas of the Primary Zone this updating will be done on an hourly basis. The safety status of sectors should be promptly communicated by the PEOC to all concerned.

It is the responsibility of each organization with emergency workers operating or required to operate in the Primary Zone to ensure that they are kept apprised of the latest/current safety status of Response Sectors.

The responsibility for the monitoring and decontamination aspect of EWCs, and relevant details will be provided once the Provincial plan amendments are complete.

### **11.4 Radiation Protection of Emergency Workers**

Emergency workers who need to enter a sector assigned a safety status other than GREEN should first report to an EWC, where they will be provided with personal monitoring devices and briefed on the precautions they should observe and any maximum time limit on their stay in the sector.

The following procedures will apply to Emergency Workers.

If the Plan is partially or fully activated:

- All Amherstburg Police, Amherstburg Fire, Ontario Provincial Police Officers and EMS staff currently on duty shift in the Amherstburg area will be dispatched to the Emergency Worker Centre to be issued safety equipment.
- 2. Safety equipment is defined as:
  - (a) TLD Badge
    - (b) DRDs (one each of 0-500 mrem and 0-5 Rem, or personal electronic dosimeters)
    - (c) KI Tablets
    - (d) Respirators
    - (e) Tyvek Coveralls
    - (f) 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.

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.
- 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).

44



## Figure 11.1

### EMERGENCY WORKER SAFETY GUIDELINES FOR ASSIGNING SECTOR SAFETY STATUS IN A NUCLEAR EMERGENCY

SAFETY STATUS	PROJECTED DOSE RATE*
RED	5 mSv (0.5 rem) per hour
ORANGE	Background to 5 mSv (0.5 rem) per hour
GREEN	Background

\* This projection shall be made for the period for which the Safety Status is to remain valid.

### Figure 11.2 EMERGENCY WORKER SAFETY FOR A NUCLEAR EMERGENCY

SAFETY STATUS	PRECAUTIONARY MEASURES		
RED	(1)	<ol> <li>Emergency workers shall report to the Emergency Worker Centre (EWC) before entering the sector.</li> </ol>	
	(2)	They shall enter the sector accompanied by a qualified escort provided by the nuclear installation and shall carry personal monitoring devices. They shall observe any precautions prescribed by the EWC.	
	(3)	Dosimeters should be checked <b>every 30 minutes</b> . Workers shall exit from the sector if the reading reaches 40 mSv (4 rem), or any lower personal limit prescribed by the EWC.	
	(4)	If duties permit, workers shall remain under shelter or inside a vehicle. If working outside, workers should wear an outer garment such as a plastic raincoat.	
	(5)	Stay in the sector shall be limited to <b>one hour</b> , or the time prescribed by the EWC.	
	(6)	On leaving the sector, emergency workers shall again report to the EWC.	
	(7)	Pregnant workers shall not enter the sector.	
ORANGE	(1)	Emergency workers shall report to the Emergency Worker Centre (EWC) before entering the sector.	
	(2)	Emergency workers shall carry personal monitoring devices and shall observe any precautions prescribed by the EWC.	
	(3)	Dosimeters should be checked <b>every hour.</b> Workers shall exit from the sector if the reading reaches 40 mSv (4rem), or any lower personal limit prescribed by the EWC.	
	(4)	If duties permit, workers shall remain under shelter or inside a vehicle. If working outside, workers should wear an outer garment such as a plastic raincoat.	
	(5)	Stay in the sector shall be limited to 4 hours, or the time prescribed by the EWC.	
	(6)	On leaving the sector, emergency workers shall again report to the EWC.	
GREEN	No p	recautions necessary. No limit on stay period.	

46

## **Chapter 12 - Training and Education**

#### 12.1 Training

- The Town of Amherstburg Community Emergency Management Coordinator (CEMC) provides generic staff training programs to staff and agency emergency personnel on an ongoing basis. Topics provide a level of understanding about upcoming exercises and training events or just provide general information on the Nuclear Emergency Response Plan or nuclear awareness.
- All Community Control Group members and support staff are providing with training to ensure that they have a general knowledge of the PNERP, the Town of Amherstburg Emergency Response Plan and are trained to carry out their specific responsibilities under the PNERP and other specific plans and implementing procedures.
- 3. Staff training may be achieved through all or any of the following activities at the discretion of the Community Emergency Management Coordinator.

This may include the following:

- (a) Staff attending internal or external training sessions on appropriate plans and procedures covering their assigned responsibilities under the plans.
   (b) Staff attending anglific training the plane and dillar
- (b) Staff attending specific training prior to exercises or drills.(c) Staff may also be provided generic professional development
- opportunities such as Basic Emergency Management (BEM) and the IMS courses.

## **Chapter 13 - Exercises and Drills**

### 13.1 General

- 1. The Town of Amherstburg conducts exercises and drills to test various components of the emergency management program and to assist with legislative compliance. Exercises and drills are designed to test things including:
  - (a) Specific emergency plans (Nuclear and conventional)
  - (b) Nuclear emergency centre set-up/operational procedures
  - (Reception/Evacuation Centre, Emergency Worker Centre)
  - (c) Notification procedures
  - (d) Emergency Management Structure (Emergency Control Group)
  - (e) Emergency Information Centre (EIC)
  - (f) Joint Traffic Control Centre (JTCC)
  - (g) Interfacing with Community and Provincial agencies and NGO's
- To ensure each department or agency maintains a high level of readiness, departments or agencies with responsibilities under the plans shall be encouraged to take every practical opportunity to participate in exercises and drills.

### 13.2 Testing the Plan

1. Testing this Plan or other supporting plans is an effective hands-on method of training staff. The Town of Amherstburg tests its plans regularly to training Municipal and agency staff.

The following components of the emergency plan may be tested as indicated below:

Review/Exercise	Participation	Frequency
Plan Familiarization	Emergency Control Group Support Staff External Organizations	Annually
MEOC Set-up Simulation Exercise	Emergency Control Group Support Staff Volunteers & Agencies	Annually

## **Chapter 14 - Public Education & Awareness**

#### 14.1 General

- 1. Public awareness is an important component of the Emergency Management Program put in place so that the general public will know what to expect before, during and after an emergency event.
- 2. The Town of Amherstburg through its Community Emergency Management Coordinator has an obligation to protect the residents of the Municipality through the implementation of an Emergency Management Program that includes the provision of public education and awareness.
- 3. All municipalities in Ontario are legislated to provide a public education and awareness component as part of their Emergency Management Program under the Emergency Management and Civil Protection Act, R.S.O., 1990.

#### 14.2 Responsibilities

- As part of the Emergency Management Program under the Emergency Management and Civil Protection Act, the Town of Amherstburg is committed to a public education and awareness program that covers the following information but is not limited to:
  - (a) Nuclear Emergency Plans and response procedures
  - (b) Nuclear Public Alerting and evacuation procedures
  - (c) General Emergency Preparedness
  - (d) Personal Emergency Preparedness

#### 14.3 Public Education & Awareness Delivery Methods

- 1. The public awareness information program provided might include:
  - (a) Brochures
  - (b) USB/Compact discs
  - (c) Emergency news releases / media articles
  - (d) Municipal/County/Provincial web sites
  - (e) Community Displays
  - (f) Public Presentations
- 2. The Town of Amherstburg publicizes emergency exercises and events where possible through local media and on the Town web site.

The CEMC responds to e-mail and telephone requests for information from the general public on emergency preparedness.