RELEVANT PLAN INFORMATION

Map(s)

Showing Flood Response Area including

Areas Protected By Dikes, Areas Not Protected By Dikes, Flood Prone Areas, Dike Protection Boundary, Dike Pump Station, Bridges, Utility Crossings, Dams, Other Structures, Evacuation Routes, etc.

Instructions To Area Supervisors

EXAMPLE

- 1. Limits of their patrol be aware of geographical boundaries and features of dikes.
- 2. Stay on duty until relieved.
- 3. How to contact headquarters personnel to be familiar with communications equipment and procedures.
- 4. Fill out inspection log.
- 5. Mark with stakes all problem areas and, if they appear dangerous, immediately report to headquarters.

EQUIPMENT TO PROVIDE TO AREA SUPERVISORS:

- 1. All-weather clothing.
- 2. Radio for communications to headquarters.
- 3. Flashlight for night patrols.
- 4. Long wooden stakes and red flagging.
- 5. Round-nose shovel.

FLOOD FIGHT OPERATIONS BASIC SAFETY TIPS FOR PATROL CREWS

- Workers must be reminded to wash their hands before eating or drinking. Bacteria
 can be rampant in flood waters and this simple step can go a long way in reducing
 the threat of an outbreak of water borne disease.
- For similar reasons, all injuries should receive prompt first aid and care to reduce
 the risk of infection. Anyone who is injured must be instructed to review the need
 for a tetanus booster with their personal physician or other medical authority.
 Even minor cuts and scrapes can provide an entry path for tetanus germs.

- To reduce cuts and scrapes, gloves must be worn while doing heavy work. While
 leather or heavy gloves are best, almost any pair of gloves will provide some
 degree of hand protection.
- Skin creams and lotions can be used to moisturize and protect skin. The skin,
 particularly on the hands, can become dry and cracked after being exposed to
 water and other harsh field conditions, Dry, cracked, and broken skin can lead to
 infections and other problems. The application of a good protective and
 moisturizing skin cream every several hours can significantly reduce this
 problem.
- Some functions may require special protective equipment. Provisions must be
 made to issue specialized safety gear to volunteers and other workers. Hard hats
 may be necessary, particularly around machinery or in areas where loading
 equipment is being used. Ear protection shall be required around extremely noisy
 equipment. In some communities patrols are provided life jackets and vests.
- All workers must be reminded never to walk behind construction machinery or heavy equipment.

It is extremely dangerous to walk or drive in flooded areas. The flood waters can lift manhole covers and expose unseen, water filled shafts. It may be impossible to rescue someone who has fallen into an unprotected water filled sewer or utility shaft. Persons who are forced to walk in flooded areas must be instructed to use a walking stick or pole to probe for unseen dangers and the use of life jackets is recommended.

Workers must also be advised to avoid areas subject to collapse, such as areas next to inundated foundation walls. The weight of the person on water saturated ground may be enough to cause the basement or foundation walls to cave in.

Flood Response Organization and Personnel

POSITION	NAME	PHONE	ALTERNATE	PHONE
	tal critish			

History of Water	of Water Levels on the	
	(Lake, Creek, Etc.)	

YEAR	DATE	HEIGHT

Provincial Snowpack And Flow Reports

(Insert relevant information here.)

Dike Patrol Log

(Insert relevant information here.)

Flood Protection Information for the _____ Area(s)

(Separate section for each area)

(Include dikes, erosion protection and other works)

Checklists Of ICS Functions

REGIONAL FUNCTIONS

Safety and General Functions - for all Personnel

Incident Commander (Sector Commander)
Deputy Commander (Deputy Sector Commander)
Information Officer
Safety Officer

Chief of Operations (Flood Fighting Chief) Operations Functions

Chief of Planning (Flood Assessment and Planning Chief)
Planning Functions
Technical Specialist Functions

Chief of Logistics (Support Coordination and Liaison Chief) Logistics Functions

Chief of Finance (Administration and Services Chief) Finance Functions

Supervisor / Team Leaders (if required)

Only those ICS positions required for a safe and effective response need to be invoked for any particular emergency situation. Depending on the scope and nature of the situation certain supervisory and leader roles may not be invoked.

In a smaller scale emergency, a single person often does handle all of the functions, at least for a limited period of time. The same is true even of a larger scale emergency at the initial stage of activation and mobilization. As the response expands to meet the requirements of the emergency, a person is assigned to each component section, and then that person gains additional personnel who are assigned individual functional responsibilities as their sections become more active.

Reference: MELP Water Related Hazards Emergency Response Plan and Procedures, 1998.

NOTE: ICS nomenclature with BC Flood Plan terminology in (brackets).

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Safety and General Functions - for all Personnel

It is the responsibility of supervisors to ensure that safety of response personnel is of the highest priority. All new response personnel arriving on the scene must be briefed on safety matters and informed of unsafe situations. Hazard response work has an "A" Hazard Classification under the *Workers' Compensation Act* (WCA). Safety requirements must be organized according to the requirements of the *Occupational Health and Safety Regulations*, and are dependent on the number of workers per shift and the travel time to the nearest hospital.

Ideally, response personnel should work in teams of two in the field, and must have ready access to communications (phone, receivers). Operations under night, or very severe weather, conditions should be carefully considered. The well-being of personnel working alone must be checked in accordance with WCA requirements. Checks should be made at such intervals and by such means as are appropriate to the nature, hazard and circumstances of the employment.

Personnel Requirements

In a small emergency, a single person might handle all of the functions for a limited period of time. The same is true even of a larger emergency at the initial stage of activation and mobilization. As the response expands to meet the requirements of a larger emergency, a person is assigned to each component branch, and then that person gains additional personnel who are assigned individual functional responsibilities as their cells become more active.

The response must function on a continuous, 24/7 basis from activation until deactivation. The manner in which this is done is at the discretion of the Chief of Planning (Flood Assessment and Planning Chief). While the immediate solution may be to establish several complete shifts for the duration of operations, there are seldom resources or facilities to sustain this approach. Plans should call up two complete

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shifts for an initial period of time, after which reduced-strength options can be considered for implementation on a branch by branch basis, such as:

- Duty Officer(s) a reduced staff of one or two persons handles all incidents
 affecting the branch. This system might require several days experience or
 some preliminary training, but it is particularly useful during periods of
 reduced activity.
- Reduced Staffing the branch staff work longer shifts or with fewer people
 than would be attempted in order to provide relief to some others. This is
 appropriate to allow short breaks for meals, etc. Reduced staffing can also
 be used to permit other staff activities to occur, such as VIP briefing or a
 field visit.
- Partial Stand-down a branch or section within a branch may be left unmanned temporarily to suit reduced activity levels. This approach may be possible during night hours when supported (or supporting) functional organizations cannot operate, and as response operations come to an imminent end.

Other Considerations

- a. **Staff Rest:** Time must be allowed for rest, meals, ablutions, etc. The matter cannot be "left to sort itself out." Schedules must follow the Hours of Work Provisions in the *Employment Standards Act*, especially section 39, **No excessive hours**.
- b. **Labour Relations:** Rules and regulations regarding safety and over-time, etc. are not suspended on account of the emergency.
- c. **Briefings, Conferences:** Activities at the PFRC which require all staff to attend should be infrequent. They interrupt necessary rest time and can preclude such necessary events as field visits.

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Safety and General Functions - for all Personnel

The following are general instructions applicable to all MELP Hazard Response Personnel.		
☐ Determine re-assignment of priority office work and arrange personal/home matters.		
☐ Acquire work material and safety gear required for field work.		
☐ Determine initial location and staging areas and means of transportation.		
☐ Report to assigned location (Provincial Field Response Centre, Command Post, Staging Area) and obtain situation briefing and assignments.		
☐ Identify supervisor and obtain all necessary safety/survival equipment and procedures.		
☐ Ensure arrival and location recorded by supervisor.		
☐ Obtain checklists of respective functions.		
☐ Obtain appropriate forms for field operations.		
☐ Identify and brief subordinates on situation, safety, reporting relationship and functions.		
☐ Maintain personal log of activities and hours worked.		
☐ Check out with supervisor on completion of functions and/or end of shift.		

The following are Checklists of Functions for hazard response. The checklists are intended to facilitate completion of actions prior to leaving the office and upon arrival in the field. The functions outlined in the checklists are presented in sequential order, allowing the person using it to follow and build on their responsibilities.

Incident Commander Functions (Sector Commander in the BC Flood Plan)

Mission:	Command of the response personnel to ensure an effective, coordinated and cooperative response.
Location:	Provincial Field Response Centre
Functions	
Obtain & ME	n initial incident briefing from field assessment personnel (PEP LP).
☐ Assess	s the situation and establish the action strategy.
☐ Condu	act briefings of command staff and section chiefs.
☐ Delega	ate functions to the Sector personnel.
☐ Ensure	e coordination of reconnaissance.
☐ Ensure	e planning meetings are conducted.
☐ Establ	ish and approve priorities.
☐ Appro	ve and authorize implementation of incident action plans.
☐ Manag	ge incident operations.
☐ Appro	ve requests for additional resources and requests for release of ces.
	ve the use of volunteers, registered through the local nment and PEP.
☐ Ensure	e effective operation of the PFRC and overall operations.
☐ Coord	inate Command staff and Section Chief activities.
☐ Ensure	e all affected agencies and resource agencies have been notified.
☐ Author	rize the release of information to the news media or the public.
☐ Ensure PECC	e Sector Status summary is completed and provided to the
	re Sector Briefing Form for the succeeding Incident nander.
☐ Issue t	asking directives.

Deputy Commander Functions (Deputy Sector Commander in the BC Flood Plan)

M	ission:	Assist the Incident Commander by way of initiation of response strategies, response team coordination and communication.
Lo	cation:	Provincial Field Response Centre
Fu	nctions	
	Ensure	effective operation of the PFRC.
	Ensure	briefing to the PECC.
	Ensure	effective action plans for Incident Commander.
	Ensure	all affected agencies have been contacted (INAC, CN/CP, etc.).
	Ensure contact	resource agencies are identified (Coast Guard, DFO, etc.), and ed.
	Coordin	nate reconnaissance.
	Perforn	n Incident Commander's functions in his/her absence.
	Assist t	the Incident Commander with his/her functions.

Information Officer Functions

(This position is filled as required depending on the scope of the hazard response)

Mission:	Provides the main contact with media and the public to ensure that accurate, timely and consistent information is being provided on the event and the response activities.
Location:	Provincial Field Response Centre
Functions	
☐ Obtain	situation briefing from Incident Commander.
☐ Coordi	nate public information activities of all ministries.
☐ Establi	sh a media centre in proximity to the PFRC.
Obtain	copies of current Status Summary from Incident Commander.
☐ Prepare	e information summary fact sheets.
☐ Issue P	Public Information bulletins as requested by the Incident ander.
☐ Attend	meetings to update information releases.
☐ Provide	e escort service to the media and senior government personnel.
☐ Respon	nd to special requests for information.
☐ Mainta	nin log of inquiries and incident status report.

Safety Officer Functions

(This position is filled as required depending on the scope of the hazard response)

Mission:	Monitors and assesses hazardous or unsafe situations and develops measures for assuring personnel safety, as well as undertakes whatever steps to prevent or stop unsafe acts.
Location:	Provincial Field Response Centre or Command Post
Functions	
☐ Report	to supervisor for situation briefing.
☐ Identification address	y obvious hazards and unsafe situations that might need to be sed.
equipn	e an adequate number of qualified first aid personnel, safety ment and Ambulance Services will be on-site to meet <i>Workers'</i> ensation Act requirements.
☐ Ensure	response activities are being monitored for safety compliance.
equipn	or familiarization of auxiliary personnel and volunteers to field ment and safety. (volunteers are registered through the local ment and PEP)
	unsafe practices and all injuries are reported to the Incident ander and that a mechanism of stop-orders are in place.

Chief of Operations Functions (Flood Fighting Chief in the BC Flood Plan)

Miss	sion:	Provides assistance in the preparation of the response strategy and determines the requirements for equipment, contract services
		and field crews.
Loca	ation:	Provincial Field Response Centre
Fun	ctions	
	Obtain	briefing from Incident Commander.
	Develo	p operations portions of Action Plan.
□ H	Brief a	nd assign operations personnel in accordance with Action Plans.
□I	Brief In	ncident Commander and Chief of Planning.
		aine equipment and human resource needs and allocation and additional resources.
0 7		er with Chief of Planning, make recommendations on priority of
		information about special activities, events and occurrences to at Commander.
□ I	Ensure	response activities are monitored for effectiveness and safety.
		nate response activities for dam and dike protection and repair to ourses and drainages.
	Coordi	nate repairs to roadways and bridges.
	Asseml	ble and supervise field crews.
		field crews provided with safety materials and equipment, retation, communications, etc.
	Superv	ise contractors and auxiliary personnel hired.
	dentify address	y obvious hazards and unsafe situations that might need to be sed.
e	equipm	an adequate number of qualified first aid personnel, safety ent and Ambulance Services will be on-site to meet <i>Workers'</i> insation Act requirements.
O I	Ensure	response activities are being monitored for safety compliance.
	Monito	or familiarization of personnel to field equipment and safety.
		unsafe practices and all injuries are reported and that a mechanism orders are in place.
	-	permanent records are kept of operations including time and costs.

Operations Functions (Flood Fighting in the BC Flood Plan)

Mi	ission:	Provides operations services, such as hazard response (flood fighting).
Lo	cation:	Field Crew Staging Area/Field Locations
Fu	nctions	
	Report	to Chief of Operations or supervisor for situation briefing.
	Obtain etc.).	appropriate information and materials (forms, maps, briefcases,
	Arrang	ge for transportation, communications and safety equipment.
	Obtain	briefing on functions and safety matters.
	Undert	ake operations functions.
0		e on-site construction supervision, supervise contractors and ry personnel hired.
	Review	v activities for effectiveness and safety.
		the supervisor of critical situations that threaten people, ructure (roads, communications and utilities), property or the ment.
	Mainta hours.	in a record of work accomplished and personal/equipment work
	Identify address	y obvious hazards and unsafe situations that might need to be sed.
	Report	unsafe practices and any injuries.

Chief of Planning Functions (Flood Assessment and Planning Chief in the BC Flood Plan)

Mission:	Recommends response action priorities to the Incident
	Commander and collects, evaluates, disseminates information
	obtained from field assessment.
Location:	Provincial Field Response Centre
Functions	
☐ Undert	ake advance planning including assembly of information, maps,
reports	, assessment forms, and assignment of staff.
Obtain	briefing from Incident Commander.
☐ Liaise	with River Forecast Centre and provide local forecasts.
☐ Assign	assessment personnel to PFRC as appropriate.
☐ Determ	nine priorities and set schedules for site surveys/inspections.
☐ Review	and update field reports.
☐ Determ	nine level of protection needed for priority areas at risk.
☐ Togeth	er with Chief of Operations, assess and recommend priorities for
action 1	plan.
☐ Assemi	ble information on alternative response strategies and make
recomn	mendations.
	y need for use of specialized expertise/resource(s) for planning
	erations, including dike safety, dam safety, river process,
	te, geotechnical, etc.
	e information to the Information Officer.
	transportation, safety equipment, tools and supplies available for
teams.	
	nate special tasks as assigned by the Incident Commander.
	an adequate number of qualified first aid personnel, safety
	nent and Ambulance Services will be on-site to meet <i>Workers'</i>
	nsation Act requirements and a stop work mechanism is in place.
	activities are being monitored for safety compliance and unsafe
	es and activities are reported.
	or familiarization of personnel to field equipment and safety.
	permanent records are kept of assessments, hours of work, etc.
- Brief Ir	ncident Commander and Chief of Operations.

Planning Functions (Flood Assessment and Planning in the BC Flood Plan)

Mis	ssion:	Conduct field surveys for the systematic collection of information, prepare documentation, advise on response techniques, and monitor response efforts.
Loc	cation:	Field Crew Staging Area/Field Locations
Fur	nctions	
		to Chief of Planning or supervisor for situation briefing and assist tifying areas and facilities at risk.
	Obtain	filed reports, maps and data forms for assessments.
		appropriate Assessment Forms and tools (flagging, tape measure, g pen, camera, binoculars, etc.).
		e with supervisor for site transportation and safety equipment for essment reconnaissance (hard hat, safety vest, boots, etc.).
114	functio	ble with assessment team members and supervisor to delineate ns, to schedule field deployment, to review data collection ures and to establish safety procedures.
	reading	ake assessment functions including site assessments, gauge g, advice on design and construction techniques (seepage, boils, g, sloughing, etc.).
	Fill out supervi	an Assessment Form for each site assessment and forward to sor.
	Review	field data obtained and prepare maps and plans as required.
	1000	supervisor of any critical situations that threaten people, ructure (roads, communications and utilities), property or the nment.
	Mainta	in a record of work accomplished and personal hours worked.
	Identify address	y obvious hazards and unsafe situations that might need to be sed.
	Report	unsafe practices and any injuries.

Technical Specialist Functions

(These positions are filled as required depending on the scope of the hazard response)

Mission:	Provides specialist assessment services including dike safety, dam safety, river process, worksite, geotechnical, construction, etc.		
Location:	Field Crew Staging Area/Field Locations		
Functions	Functions:		
_	to the Chief of Planning (Flood Assessment and Planning Chief) nation briefing and assist in identifying areas and facilities at risk.		
☐ Obtain	☐ Obtain filed reports, maps and data forms for assessments.		
	Obtain appropriate Assessment Forms and tools (flagging, tape measure, marking pen, etc.).		
	ge with supervisor for site transportation and safety equipment for sessment reconnaissance.		
to deli	uired, assemble with assessment team members and supervisor neate functions, to schedule field deployment, to review data tion procedures and to establish safety procedures.		
	take specialist assessment functions in coordination with sment Teams and dam/dike owners as required.		
☐ Prepar superv	e and provide Assessment Forms and other documentation to isor.		
☐ Review	w field data obtained and prepare Maps and Operational Plans.		
☐ Prepar	e risk analysis and advice.		
infrast	supervisor of any critical hazard situations that threaten people, ructure (roads, communications and utilities), property or the nment.		
☐ Mainta	ain a record of work accomplished and personal work hours.		

Chief of Logistics Functions (Support Coordination and Liaison Chief in the BC Flood Plan)

M	ission:	Provides the coordination of other ministry's activities in support of the PFRC operations whereby additional resources are sought by the Incident Commander. Arranges and provides facilities, services, personnel and materials.	
Lo	cation:	Provincial Field Response Centre	
Fu	Functions:		
۵	☐ Obtain briefing from Incident Commander.		
۵	Assign work locations and preliminary work tasks to section personnel.		
	☐ Keep a record of units activated including names and locations of assigned personnel.		
	☐ Participate in preparation of Action Plan.		
	Review	Action Plan and estimate needs for next operation period.	
	Assess response equipment and personnel needs.		
		nate requests for additional resources identified by Incident ander not available within the PFRC structure.	
	Coordi	nate support elements of the Action Plan.	
		nate notification and liaise with community to inform and address concerns.	
	Coordi	nate local community efforts with the Provincial response.	
	Arrang	e volunteer services.	
	Establi	sh Command Post and field communications as required.	
	Ensure	other agencies provide evacuation services and health services.	
	Ensure	liaison with traffic control.	
	Co-ord	inate with livestock protection and evacuation services.	
	Liaise	with Chiefs of the ICS sections and Commander.	
	Arrang	e for transportation and accommodation of response personnel.	
	Mainta	in inventory, costs and records of equipment deployed/returned.	

Logistics Functions

(This position is filled as required depending on the scope of the hazard response)

Mission:	Arranges and provides facilities, services, personnel and material.			
Location:	Provincial Field Response Centre/Command Post			
Functions:				
☐ Report to the Chief of Logistics (Support Coordination and Liaison Chief) and obtain briefing.				
☐ Determ	☐ Determine types of response equipment needed.			
25	ish a Command Post, if required, and field communications in nity to area.			
☐ Assess	☐ Assess future equipment and personnel requirements.			
☐ Liaise	with Finance Officer.			
☐ Distrib	oute and record equipment issued.			
☐ Arrang	ge for transportation and accommodation.			
☐ Mainta returne	nin inventory and cost records of equipment deployed and ed.			

Chief of Finance Functions (Administration and Services Chief in the BC Flood Plan)

M	ission:	Provides administration and financial services to the Incident Commander as may be required on a 24 hour basis, including billing, accounting, filing, invoicing and preparation of service contracts.
Lo	cation:	Provincial Field Response Centre
Fu	nctions	
	Review Action Plan and estimate PFRC needs for next operation period.	
	☐ Identify service and support requirements for PFRC operation.	
	☐ Establish and maintain a filing system for PFRC staff.	
	Prepare summary sheets of cumulative resource deployment.	
		all PFRC obligation documents initiated at the incident are y prepared and completed.
	Prepare	e and consolidate time and wage records for the PFRC.
		on of PFRC facilities including a large meeting room (20 s), a small meeting briefing room (6 persons) and a media centre.
	Ensure	adequate facilities are provided to house the PFRC.
		access security and services are provided on a 24 hour basis coffee, food, etc.).
	Provide	e sufficient telephones and communications for PFRC operations.
	Ensure the PFF	clerical services, stationary and supplies are available to support RC.
	Mainta commit	in financial control and records of PFRC expenditures and tments.
	Acquire	e emergency materials and maintain records.
	Arrang	e accommodation and travel for PFRC staff.
	Provide	e radio communication to the PFRC.
0	Ensure basis.	adequate courier and message service available on a 24 hour

Finance Functions

(This position is filled as required depending on the scope of the hazard response)

Mission:	Provides for the overall administrative and finance services which include billing, accounting, filing and invoicing and preparation of service contracts.	
Location:	Provincial Field Response Centre/Command Post	
Functions:		
	Report to and obtain briefing from the Chief of Finance (Administration and Services).	
	Obtain stationary, office equipment supplies and clerical support for response personnel.	
	Establish financial (cash accounts, invoices, billings, contracts, etc.) and administrative (filing, stationary supplies, etc.) capability for response.	
☐ Assign	support clerical staff, if needed, to support response efforts.	
	with Logistics Officer for preparation of equipment and service ets and rentals.	
☐ Coordi travel,	inate accounting for food, equipment, wages, accommodation, etc.	
☐ Prepar	e financial and administration status reports.	

Supervisor/Team Leader Functions

(Position(s) filled as required depending on the scope of the hazard response.)

Mission: Assumes supervisory role over Operations or Planning functions/teams as required.		
Location: Command Post/Site Assessment Crew Staging Area		
Functions:		
☐ Report to Chief of Operations or Planning, or supervisor, for situation briefing and assist in identifying areas and facilities at risk.		
☐ Assume delegated responsibilities from supervisor.		
☐ Determine number and deployment of field crews.		
☐ Determine resource allocations among multi-site activities.		
☐ Secure site transportation and safety equipment for field crews/teams.		
Assemble field crews to delineate functions, schedule field deployment, to review data collection procedures and to establish safety procedures.		
☐ Review activities for effectiveness and safety.		
☐ Supervise contractors and auxiliary personnel hired.		
☐ Identify obvious hazards and unsafe situations that might need to be addressed.		
☐ Ensure response activities are being monitored for safety compliance.		
Monitor familiarization of personnel to field equipment and safety.		
☐ Ensure unsafe practices and all injuries are reported and that a mechanism of stop-orders are in place.		
☐ Ensure permanent records are kept of work accomplished, costs and hours worked.		