

Exercise 7

Overview

Unit 6

Purpose

The purpose of this exercise is to provide participants with an opportunity to practice informing responders about the hazards and risks of the Tactical Operations, as well as the mitigations planned for those hazards and risks.

Objectives

Students will:

- Fill out ICS Form 215A, Incident Action Plan Safety Analysis.
- Fill in the Special Instructions box on ICS Form 204, Assignment List, for one Division/Group.
- Deliver the Incident Safety Analysis during a Planning Meeting.

Exercise Structure

This exercise will last approximately 75 minutes, including small group discussion and presentation of group findings. The participants will individually fill out ICS Form 215A, Incident Action Plan Safety Analysis, and the Special Instructions box (No. 8) on ICS Form 204, Assignment List, for one Division/Group, using ICS Form 215 for the Train Derailment Scenario and the mitigations listed in Exercise 6. In their small groups, participants will select one student's ICS Form 215A and fill in a wall-sized version of the form, which will then be presented to the rest of the class.

Rules, Roles, and Responsibilities

The following are the specific activities and instructions for your participation in the exercise:

1. Review the mitigations listed in Exercise 6 and ICS Form 215 for the Train Derailment Scenario.
2. Individually, fill out ICS Form 215A, Incident Action Plan Safety Analysis.
3. Individually, fill in the Special Instructions box (No. 8) on ICS Form 204, Assignment List, for one Division/Group.
4. Within your small group, select a group spokesperson.
5. Fill out the wall-sized version of ICS Form 215A with the spokesperson's responses.
6. Present your responses to the rest of the class.

Exercise 7 Schedule

Activity	Duration	Participation Type
Exercise Introduction and Overview	2 minutes	Classroom
Individual Work	25 minutes	Individuals
Discuss and Document	10 minutes	Small groups
Debrief and Review	25 minutes	Classroom

OPERATIONAL PLANNING WORKSHEET (ICS 215)

1. Incident Name:						2. Operational Period: Date From: _____ Date To: _____ Time From: _____ Time To: _____													
3. Branch	4. Division, Group, or Other	5. Work Assignment & Special Instructions	6. Resources													7. Overhead Position(s)	8. Special Equipment & Supplies	9. Reporting Location	10. Requested Arrival Time
			Req.																
			Have																
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ICS 215		11. Total Resources Required	/ / / / / / / / / / / / / / / /												14. Prepared by: Name: _____ Position/Title: _____ Signature: _____ Date/Time: _____				
		12. Total Resources Have on Hand	/ / / / / / / / / / / / / / / /																
		13. Total Resources Need To Order	/ / / / / / / / / / / / / / / /																

ASSIGNMENT LIST (ICS 204)

1. Incident Name: _____		2. Operational Period: Date From: _____ Date To: _____ Time From: _____ Time To: _____		3. Branch: _____ Division: _____ Group: _____ Staging Area: _____
4. Operations Personnel: <u>Name</u> _____ <u>Contact Number(s)</u> _____ Operations Section Chief: _____ Branch Director: _____ Division/Group Supervisor: _____				
5. Resources Assigned:				
Resource Identifier	Leader	# of Persons	Contact (e.g., phone, pager, radio frequency, etc.)	Reporting Location, Special Equipment and Supplies, Remarks, Notes, Information
6. Work Assignments:				
7. Special Instructions:				
8. Communications (radio and/or phone contact numbers needed for this assignment): <u>Name/Function</u> _____ <u>Primary Contact: indicate cell, pager, or radio (frequency/system/channel)</u> _____ / _____ / _____ / _____ / _____				
9. Prepared by: Name: _____		Position/Title: _____		Signature: _____
ICS 204	IAP Page _____	Date/Time: _____		

INCIDENT ACTION PLAN SAFETY ANALYSIS (ICS 215A)

1. Incident Name:		2. Incident Number:	
3. Date/Time Prepared: Date: _____ Time: _____		4. Operational Period: Date From: _____ Date To: _____ Time From: _____ Time To: _____	
5. Incident Area	6. Hazards/Risks	7. Mitigations	
8. Prepared by (Safety Officer): Name: _____ Signature: _____			
Prepared by (Operations Section Chief): Name: _____ Signature: _____			
ICS 215A	Date/Time: _____		

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OPERATIONAL PLANNING WORKSHEET (ICS 215)

1. Incident Name: C & C Train Derailment				2. Operational Period: Date From: 1/22 Time From: 1200										Date To: 1/22 Time To: 2400					
3. Branch	4. Division, Group, or Other	5. Work Assignment & Special Instructions	6. Resources	S/T Engines type I	HazMat Crew	Heavy Escue	Ambulance type ALS	Engine type 1	Ambulance BLS	River Patrol Boat	LE S/T	Damage Assessment Team				7. Overhead Position(s)	8. Special Equipment & Supplies	9. Reporting Location	10. Requested Arrival Time
	Fire/Rescue Grp	Continue containment & extinguishment of LPG cars and fires. Eliminate ignition sources. S/R	Req. Have Need	2 0 2	1 0 1	1 1 0	2 1 1									Group Supervisor (DIVS) Asst SOFR	HazMat PPE	DP 1	1215
	HazMat Grp	ID train contents. DCON all personnel, Contain spills at train & downriver. Coord w/fire-Rescue Grp.	Req. Have Need		3 1 2		2 0 2									DIVS Asst SOFR RR Hzmt Spec F&G Rep	HazMat PPE PFD PPE	DP 1	1215
	Law Enforcement Grp	Maintain Perimeter N (17th st), E (Z st), S (29th st), W (Lst). restrict access to authorized personnel.	Req. Have Need							2 2 0	5 0 5					Group Supervisor (DIVS) Asst SOFR		DP 1	1215
	LE grp continued	Complete Evacuation within the perimeter. Continue River closure	Req. Have Need																
	EMS Grp	Treat injured. Support all other groups w/EMS needs. Coord w/Red Cross Evac Center	Req. Have Need				2 0 2		2 0 2							DIVS		DP 1	1215
	Damage Assessment Grp	Coord w/all Grps to assess dmg. Assess Pub facilities for use w/in 48hrs & impact to threat species	Req. Have Need									4 0 4				DIVS	PPE when required. PFD around water	DP 1	1230
ICS 215	11. Total Resources Required			2	4	1	4	2	2	2	5	4	/	/	/	14. Prepared by: Name: <u>G. Cason</u> Position/Title: <u>OSC</u> Signature: <u><i>G. Cason</i></u> Date/Time: <u>1/22 0900</u>			
	12. Total Resources Have on Hand			0	1	1	1	0	0	2	0	0	/	/	/				
	13. Total Resources Need To Order			2	3	0	3	2	2	0	5	4	/	/	/				

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Planning Meeting Demonstration Role-Player Script

This is the 1600 Planning Meeting.

Planning Section Chief: We are having the Planning Meeting for the first operational period beginning at 1200 today. I would ask everyone to put your cell phones and pagers on vibrate and have someone outside monitor your radios to eliminate interruptions so that we can get through this meeting rapidly. Thank you. First, the Operations Section Chief will give us a brief overview of the incident.

Operations Section Chief: In the early morning today, a Central and Columbia (C&C) freight train derailed and rolled down an embankment along the Roaring River. The train consisted of:

- 4 diesel locomotives,
- 23 tank cars (pressurized and non-pressurized),
- 12 hopper cars, and
- 2 cryogenic liquid tank cars containing liquid oxygen (LOX).

An initial assessment indicates that several of the pressurized tank cars containing chlorine and anhydrous ammonia have ruptured. Two of the Liquefied Petroleum Gas (LPG) tank cars exploded on impact during the derailment, causing a fire. The hopper cars containing ammonium nitrate lie on their sides, and the contents have spilled onto the banks of the river. The locomotive diesel tanks have ruptured, spilling diesel fuel into the river. The cryogenic tank cars appear to be intact; however, several of the non-pressurized tank cars have released an unknown quantity of crude sulfate turpentine into the river. There are numerous water intakes along this stretch of the Roaring River.

There is an unconfirmed report of a chlorine gas cloud forming immediately downstream from the leaking rail cars. The Emergency Medical Agency (EMA) in Liberty County is reporting numerous incidents of burning eyes and lungs. The Central

City hospital has exceeded its capability to staff the emergency room. The mayor has issued an evacuation order for residents in the surrounding area, and is requesting assistance from the State. The neighborhoods immediately adjacent to the spill on both sides of the river are being evacuated due to the danger posed by the chlorine gas. The Red Cross is establishing an evacuation center at North High School in Central City.

Central City Police Department cars are deployed on both sides of the river at the derailment. The area about 200 yards from the derailment has been cordoned off. HAZMAT crews and rail crews are busy containing the spill and bringing in equipment to remove the derailed cars.

There are rumors that hundreds of Coho salmon, a federally listed threatened species have been killed. The Parks Department, and County and State Departments of Natural Resources have issued an advisory and closed the river to fishing, recreation, and other uses for 25 miles downriver from the rail bridge site.

Next, we have posted the incident's objectives. I'll ask our Incident Commander, (*use the role player's name*), to very quickly review them with you (*point to Incident Commander*).

Incident Commander: The current incident objectives are:

1. Provide for the safety of the public and a safe work environment for all responders.
2. Identify current and potential HAZMAT releases and potential impacts to the public and environment, including Human Exposure, Municipal Water Supplies, Air Quality, Flora and Fauna.
3. Establish safety mitigations for firefighters and extinguish fires as soon as possible.
4. Prepare and initiate a plan to contain and prevent further release of hazardous materials by 1200 tomorrow.
5. Complete a damage survey within 24 hours.
6. Establish HAZMAT cleanup activities with a target completion time of 72 hours.
7. Return all public facilities used for the response to at least minimal operational condition within 48 hours.

We have been delegated authority from the Mayor's office. Finance needs to determine the spending limits under the delegation of authority.

Planning Section Chief: Thanks, *(use the Incident Commander's name)*.

Next, as you can see, the sketch map has the incident and surrounding area plotted. Ops *(look at Ops)*, any changes or additions? (The answer is "No.") Thanks.

Next, I'll ask Operations to go over the tactics and the resource commitment for his plan. Ops?

Operations Section Chief: We will deploy five groups to respond to this incident. All groups and resources will report to DP-1 at 1245 hours.

1. **Fire and Rescue Group** will continue containment and extinguishment of LPG cars and other fires, eliminate any potential ignition sources, and search for injured where safe to do so.
2. **HAZMAT Group** will complete the identification of train contents, coordinate with Fire/Rescue Group, contain spills around train and downriver, and provide decontamination for all personnel.
3. **Law Enforcement Group** will maintain perimeter and restrict access to authorized personnel along the perimeter: North (17th Street), East (Z Street), South (29th Street), West (L Street). Law Enforcement will also complete any evacuation within the perimeter and continue river closure to all river traffic in the immediate incident area. One boat will patrol upstream from the incident and one boat will patrol downstream from the incident.
4. **EMS Group** will continue treatment of injured; support Fire, HAZMAT, and Law Enforcement Groups with EMS needs; and coordinate EMS needs with Red Cross Evacuation Center. EMS will provide air support as needed for evacuation of injured personnel or residents.
5. **Damage Assessment Group** will coordinate with all groups to assess damage throughout the incident area, assess public facilities for use within 48 hours, and assess impacts to threatened and endangered species.

Planning Section Chief: Safety would you please go over ICS Form 215A for the designated groups.

Safety Officer: Yes (Safety Officer goes over ICS Form 215A).

As you know, we have an extremely hazardous situation given the hazards presented by the involved materials and we want to keep ourselves and citizens safe as we work to respond to this situation. Situational awareness will be critical for safe activities. First, because of the danger of chlorine gas and shifting winds, post lookouts to ensure that there are no surprises from the damaged rail cars and be continually aware of our escape routes. In addition, we need to ensure that our escape routes are effective so we need to mark the escape routes and control traffic access to these routes.

Personnel engaged in direct response activities (Fire and Rescue, EMS, and HAZMAT crews) need to maintain situational awareness, post lookouts, and ensure that you have the proper PPE for this effort. HAZMAT crews will manage and staff temporary decon facilities if you get exposed or if anyone else gets exposed. Those managing the decon sites will need to manage runoff so be sure that you have set up using best practices and comply with local and State requirements.

Damage assessment teams will need to maintain situational awareness, post lookouts, and ensure that you have the proper PPE for this effort.

Because of the heat and PPE, you will need to be more vigilant about hydrating yourself, be aware of signs of dehydration and heat exhaustion [the symptoms should be included in the Safety Message in the IAP, not the Planning Meeting] in yourself and your teams.

Communications will be essential to ensure that we all remain safe. No unnecessary chatter on your radios, and be sure that you have the correct frequencies from our Communications Plan.

We'll be moving in heavy equipment to handle the rail cars and clean up the contaminated soil. Maintain your situational awareness and where the equipment is and will be moving to.

Planning Section Chief: Thanks, Safety. Okay, Logistics, can we get an update from you?

Logistics Section Chief: We have placed all the orders for resources that Operations has requested. We have received confirmed ETAs for the Group Supervisors and all of the Assistant Safety Officers, and all should be here in time for the 1900 Operational Briefing.

The C&C Railroad HAZMAT specialist is en route and should be here by 0700. Do you want him to come into the ICP or go directly to their tactical assignment with the on-scene HAZMAT Strike Team?

Operations Section Chief: I would like him to report to me at the ICP for a Briefing.

Logistics Section Chief: It appears that two of the Type 2 crews may not be here until 2300; all other crews will be here for the Operational Briefing. What do you want to do with the crews coming in later?

Operations Section Chief: Have them report to me for assignment upon arrival for a Briefing.

Logistics Section Chief: We have no information on the other additional resources as yet. It appears that they may be coming from the local jurisdictions, but I really don't know as of now. I will let you know as soon as we hear anything regarding their ETAs.

We have recommended that we use XXX as our ICP site and have passed it on to Finance for a Land Use Agreement.

We have the needed flagging tape and traffic cones on hand. We also are bringing a truck load of bottled drinking water for incident personnel. As soon as it arrives, we will get it to you. My folks will contact Operations for delivery points.

We will have our feeding up and available by 1800 and should be able to get the responders fed before the Operational Briefing.

Planning Section Chief: Okay, thanks, Logistics. Moving right along, Logistics has developed a Communications Plan that will provide a Tactical channel for each Group and separate dedicated channels for Air-to-Ground communications, Logistics, and Command. It appears that this will work in our area and not have any outside interference. Logistics, I will need your Medical Plan and Communications Plan by 1800 for inclusion in the IAP. *(The Logistics Section Chief will confirm that he or she can produce them within the timeframe.)* Also, I will need a Traffic Plan by the same time. *(“No problem.”)* Okay, we have a plan. Can I get your support for this plan? *(Go around the group, one at a time, and get confirmation of their support for the plan.)*

Planning Section Chief: PIO?

Public Information Officer: I can support the plan. We are formulating a media release for 0400. *(Look at the Incident Commander.)* I will bring it by for your approval. After your approval, I'll send it to the mayor's office for release. *(Look at the Incident Commander.)* We rescheduled the public meeting for 0800 tomorrow.

Planning Section Chief: *(Look at the Liaison Officer.)* Liaison Officer?

Liaison Officer: I can support the plan. If you get notified that the other additional resources do come from local jurisdictions, could you let me know so that I can make contact with the agencies?

Planning Section Chief: Safety Officer?

Safety Officer: I feel that we have addressed all of the safety concerns. In the Safety Message, I will emphasize that the Search and Rescue Group will need to maintain communications with Operations as they may be in danger if heavy equipment working in the area of their operations causes debris to shift. Yes, I can support the plan.

Planning Section Chief: Finance?

Finance Section Chief: Yes, I can support the plan. However (*look at Operations representative*), we have not gotten anyone from Operations coming by reporting time to us yet. Can you mention this requirement during the Ops Briefing? (*Operations will acknowledge this request.*) Also, we are working on a Land Use Agreement for the area for the ICP and evacuee shelter. (*Look at the Operations representative.*) Once you determine where the helibase will be, could you let me know so that we can negotiate an agreement for that location? (*Operations will acknowledge this request.*) Thank you.

Planning Section Chief: Very good. Incident Commander, are we cleared to go with this?

Incident Commander: I think that this plan will work; however, we don't have much of a plan if we don't get confirmation on those additional resources soon. (*Look at the Operations Section Chief.*) We will need to have an alternative plan available if we don't have a confirmed fill on those engine orders by 2130. (*Give the Operations Section Chief a chance to respond to your comment.*)

Operations Section Chief: We have a Contingency Plan in the works. (*Look at the Planning Section Chief.*) I would like to have the plan by 1830 for my review and signature.

Planning Section Chief: Okay, thank you for your participation. Our Operational Briefing will be right outside at 1900.