

COOPERATIVE FIRE PROTECTION AGREEMENT

EXHIBIT G

**CALIFORNIA NATIONAL GUARD GROUND FORCES OPERATING
PLAN**

**TYPE II HANDCREWS, BULLDOZERS, TRANSPORTATION &
ENGINES**

STATE ACTIVATION AND EMPLOYMENT

**11 July 2011
Version 1.0**

COOPERATING AGENCIES

California Emergency Management Agency (CAL EMA); the California Department of Forestry and Fire Protection (CAL FIRE); US Department of Agriculture Forest Service (USFS); US Department of Interior, Bureau of Land Management (BLM); US Department of Interior, National Parks Service (NPS); and the California National Guard (CNG).

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INTRODUCTION

This Operating Plan implements the agreements documented in the “Cooperative Agreement” (Exhibit I) among: the California Emergency Management Agency (CAL EMA); the California Department of Forestry and Fire Protection (CAL FIRE); US Department of Agriculture Forest Service (USFS); US Department of Interior, Bureau of Land Management (BLM); US Department of Interior, National Parks Service (NPS); and the California National Guard (CNG). All agencies that are signatory to the Cooperative Agreement will maintain personnel and equipment capable of responding to an emergency activation during the fire season, in accordance with this plan.

This handbook is designed as an operational reference for the state activation and employment of California National Guard military ground crew forces to include Type II hand crews, bulldozers and ground transportation capabilities.

The procedures contained in this exhibit apply to state activations and alerts of CNG military handcrews. Federal activations of CNG or DoD military handcrews are covered in the NIFC “Military Use Handbook,” and the current DoD DSCA EXORD.

About this document: This document is constructed as an Exhibit to the Cooperative Agreement (CAL FIRE # 7CA99657) but has been constructed so that material can be amended separately from the base agreement as determined to be necessary by the cooperating agencies.

Explanation of Terms:

1. CNG shall refer to the California National Guard, to include all assigned soldiers and airmen, as commanded by the Adjutant General
2. CAL EMA shall refer to the California Emergency Management Agency under the authority of the Governor of the State of California
3. CAL FIRE shall refer to the California Department of Forestry and Fire Protection.
4. REQUESTING AGENCY shall refer to the state or federal agency requesting state activation of CNG military handcrews.

Sustainment: CAL FIRE will coordinate an annual review and update of this document to ensure the most current information and procedures are accurately represented. A revision record is included to record changes at the time the document is updated.

For additional information regarding information contained within this handbook, please contact the California National Guard J35 at 916.854.3440 or NGCAJOC-OPS@ng.army.mil

CHAPTER 1 - CNG TYPE II HANDCREWS

1.1 Purpose

Severe and recurrent fire conditions within the State of California have established the requirement to maintain forces within the California National Guard able to conduct fire suppression operations as Type II hand crews. This plan is intended to serve as a single-source document that identifies the mutual duties, responsibilities and expectations of the various fire agencies and CNG units and capabilities. This plan, along with associated appendices, standardizes CNG Hand crew qualifications, training, staffing and operational employment in order to clarify and expedite flow of critical resources during a fire emergency within the state.

1.2 Assumptions, Restrictions and Limitations

1. The CNG maintains a medically evaluated and available force of 600 service members for use as Type II handcrews.
2. Handcrews will receive all training, to include classroom training and cold line training at the time of activation.
3. The CNG will also maintain the necessary military command, control and support personnel and equipment required to conduct handcrew operations.
4. CNG handcrews will be requested in minimum increments of 6 crews (120 service members)
5. Activation, to include mobilization, training and out-processing of CNG hand crews will not exceed 30 days without prior approval of the Adjutant General.
6. Activated military hand crews are expected to perform 19 days of duty in support of the Incident Commander to which they are assigned.
7. CAL EMA is the only authorized requesting authority for activation of CNG Type II handcrews. Requests for federal military handcrews through NIFC is a separate process not addressed in this document.
8. CNG Handcrews will be prepared to deploy NLT 48 hours after receipt of the Mission Request Tasking (MRT) by the Joint Forces Headquarters (JFHQ), Joint Operations Center (JOC) from CALEMA.

9. CAL EMA will only request the “Activation” of CNG Type II handcrews in an emergency situation when life and/or property is immediately threatened, and when civilian resources are insufficient, have been exhausted or are not reasonably available.
10. “Activation” of military handcrews authorizes the CNG to mobilize military hand crews along with command, control and support staff on Emergency State Active Duty (ESAD) status at home station armories and headquarters. “Activated” forces will remain mobilized at home station until assigned to an incident or released from “Activated” status.
11. A notification of “Be Prepared” means that CAL EMA has determined conditions exist which may require the “Activation” of CNG military handcrews. When directed to “Be Prepared”, the CNG will send a Warning Order to subordinate commands with assigned military handcrews which authorizes the use of alert rosters to notify service members of possible “Activation.” Military handcrews will not mobilize on ESAD or any other active duty status when directed to “Be Prepared.”
12. Activation or alert of Type II handcrews includes, at a minimum, the necessary military requirements to command, control and sustain military forces. Appendix 1 outlines minimum military requirements and will be considered the basis for all pre-approved costs.

1.3 Authorities / Responsibilities

1.3.1 CAL FIRE SHALL:

1. Determine all requirements for certification for CNG military handcrews.
2. Provide instructor, exam proctor and materials required to conduct classroom training.
3. Supply all required PPE to activated CNG handcrews, including any minor boot shortfalls

1.3.2 THE REQUESTING AGENCY SHALL

1. Coordinate with CAL FIRE to provide cold line training for activated CNG hand-crews at the Incident site.
2. Coordinate with CNG to transport activated CNG handcrews, to include command and control support staff to and around the incident site.

3. Coordinate to provide food for CNG handcrews during the training period and at the Incident base camp.
4. Provide qualified Military Liaison Officers (MLOs) Strike Team Leaders Crews (STCR's) and Military Crew Advisors (MCADs) to support activated CNG handcrews as identified in Exhibit A-1 and A-2.
5. Reimburse CAL FIRE for all required PPE supplied to activated CNG hand crews, including any minor boot shortfalls.
6. Provide shaded and/or climatically maintained accommodations for off shift sleeping, rest and recuperation for CNG handcrew personnel at the incident camp site as identified in Exhibit A-1 and A-2.
7. Provide the following services at incident camp sites for CNG handcrew use:
 - Fuel
 - Laundry
 - Showers
 - Latrines
 - Trash Service
 - Camp Lighting
 - Power Generation
 - Hand Washing Stations
 - Meals

1.3.3 THE CNG SHALL

1. Provide REQUESTING AGENCY with updated personnel roster and PPE sizing requirements at the time of activation.
2. Arrange for the feeding of CNG handcrews when mobilized at home station, transportation to the training site and demobilization at home station. Expense for contracted meals will be billed to CAL EMA in accordance with procedures outlined in the Cooperative Agreement.
3. Conduct medical screening and fitness evaluation of all handcrew personnel prior to activation.
4. Respond to REQUESTING AGENCY's request to provide transportation of handcrew personnel plus command and support staff to and around the incident site. An approximation of the transportation force package can be found in Exhibit A-4

5. Provide vehicles as required to support command and control of military forces per Exhibit A-1 and A-2
6. Provide internal CNG public affairs support for all activated hand crews
7. Coordinate media themes and messages with the CAL FIRE and CAL EMA JIC and the Incident Commanders information officers
8. Provide internal medical support as outlined in Exhibit A-1 and A-2 for all activated CNG handcrews in coordination with the incident.
9. Provide internal hand-held radio communication as required to maintain command and control of activated CNG hand crews. Use of CNG command and control frequencies shall not interfere with operation safety concerns of CNG crews while on fire line assignment.
10. Provide external communication and internet capability for all activated CNG handcrews in coordination with the incident.

1.4 Type II Handcrew Ordering Procedures

1. Incident Commanders of REQUESTING AGENCY shall request additional hand crews through the Geographic Area Coordination Centers (GACC's).
2. The GACC submits request for additional hand crews to the CAL FIRE Command Center (Sacramento, CA) through ROSS.
3. CAL FIRE command center determines if CNG type II handcrews are required.
4. CAL FIRE requests CNG handcrew support through Fire and Rescue Branch at CAL EMA
5. CAL EMA Fire and Rescue notifies JFHQ, JOC of requested number of handcrews and transmits Mission Request Tasking (MRT).
6. JFHQ, JOC notifies key staff of mission approval and acceptance.
7. JFHQ, JOC activates appropriate hand crew forces
8. JFHQ staff coordinates with REQUESTING AGENCY to determine time and location of classroom training.
9. JFHQ staff coordinates with REQUESTING AGENCY to secure transportation to classroom training location.

10. "Activated" handcrews arrive at classroom training location.

1.5 CNG Handcrew Training and Mobilization Process

<u>Day</u>	<u>Action</u>
	<p><i>Pre-activation</i> REQUESTING AGENCY identifies need for additional handcrews. CAL EMA advises JFHQ, JOC that CNG handcrews may be required. JFHQ J3 deploys liaison officer at CAL EMA and GACC's.</p> <p>REQUESTING AGENCY identifies Military Liaison Officers (MLO's), Strike Team Leaders Crews (STCR) and Military Crew Advisors (MCADS)</p> <p>CAL FIRE coordinates with the CNG and REQUESTING AGENCY to determine suitable location to conduct classroom training of CNG handcrews. CAL FIRE identifies and instructors for classroom training.</p>
<i>Activation</i> Day 1	<p>CAL EMA requests CNG handcrews through JFHQ, JOC. JOC activates requested handcrew forces and supporting staff and JTF if required.</p> <p>REQUESTING AGENCY directs MLO's, STCR's and MCADS to report to the classroom training location.</p> <p>CAL FIRE and REQUESTING AGENCY coordinate to ensure meals and lodging are available at the classroom training site location.</p> <p>REQUESTING AGENCY coordinates with the CNG to secure transportation of CNG handcrews to the training location as well as to and around the incident location.</p> <p>REQUESTING AGENCY obtains sizing requirements from CNG and prepares PPE for issue at the classroom training location</p> <p>"Activated" CNG hand crew personnel mobilize at home station. Handcrew command and control staff is identified and Advanced Party personnel selected (ADVON)</p>

- Day 2 JFHQ submits PPE sizing requirements to REQUESTING AGENCY.
- CALFIRE classroom instructors arrive at training location and prepare for arrival of CNG handcrews
- REQUESTING AGENCY's MLO's, STCR's and MCADS to arrive at the classroom training location.
- CNG handcrew ADVON arrives at classroom training location and coordinates with CALFIRE and REQUESTING AGENCY to prepare for arrival of CNG handcrews.
- "Activated" CNG hand crew personnel continue to mobilize at home station armories and prepare for fire duty.
- Day 3 CNG hand crews travel to classroom training site, link up with ADVON and secure billeting.
- JFHQ in-processing support personnel travel to classroom training site and prepare to in-process CNG handcrews
- Day 4 CNG handcrews conduct in-processing at classroom training site
- REQUESTING AGENCY provides PPE to all CNG hand crew personnel
- REQUESTING AGENCY assigns MLO's, STCR's and MCAD's to CNG handcrews
- Day 5 CNG hand crews begin classroom instruction.
- Day 6 CNG handcrews complete classroom instruction and prepare for movement to Incident location
- CNG ADVON departs classroom training site for Incident location, secures billeting upon arrival.
- Day 7 CNG ADVON coordinates with Incident Commander and REQUESTING AGENCY POC's at Incident Site to secure

billeting area, discuss operations and prepare for cold-line training.

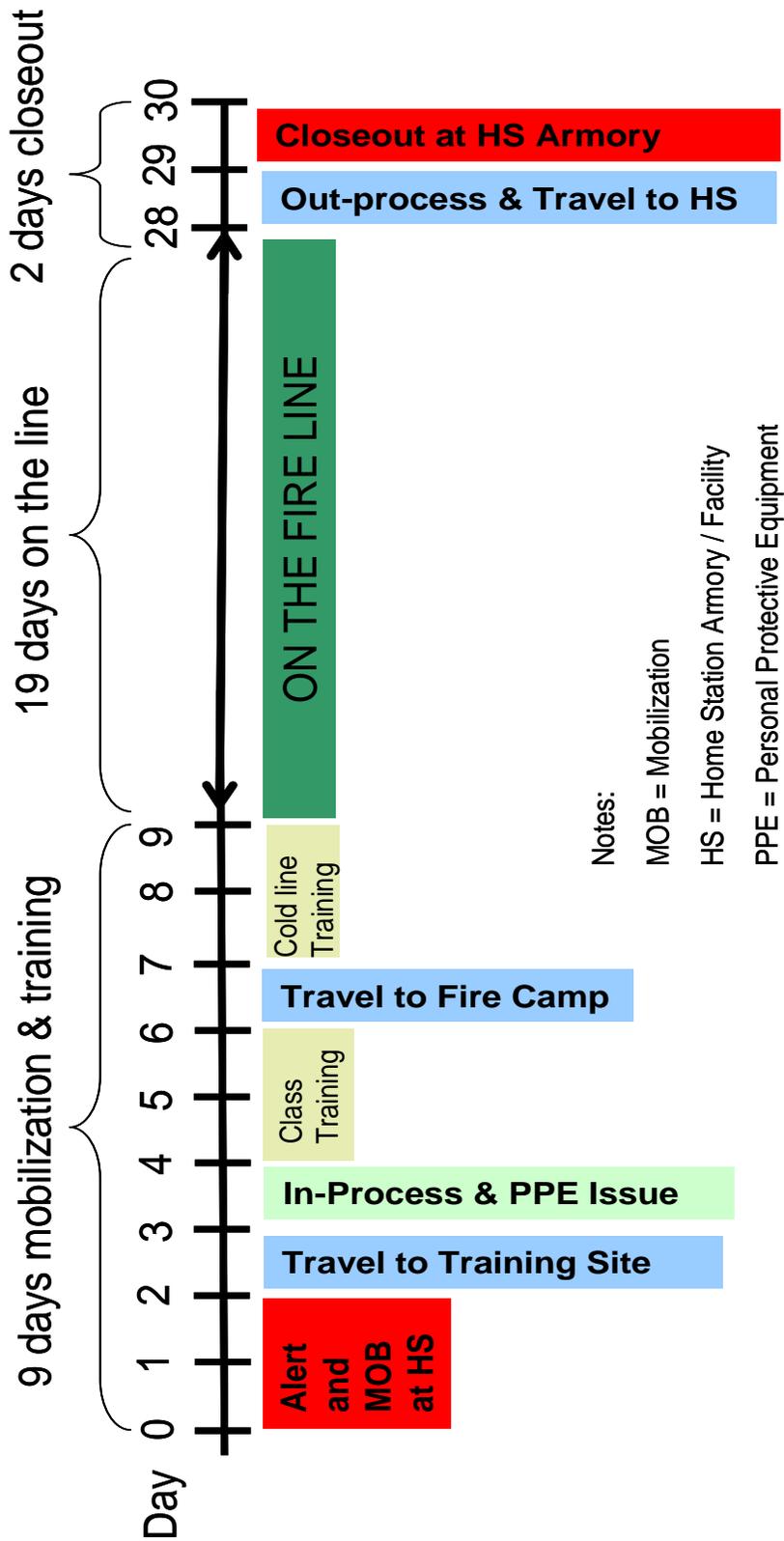
CNG handcrews depart for Incident Site with MLO's, STCR's and MCAD's to Incident Location Site, secure billeting upon arrival.

Day 8-9 CNG handcrews cold-line fire training at Incident site with REQUESTING AGENCY.

Day 10 CNG handcrews begin handcrew operations.

NOTE: 9 day training and mobilization model may vary depending upon location of activated CNG units, classroom training site and location of Incident.

1.6 CNG Handcrew Deployment Timeline



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Appendix A-1 Type II Hand Crew Force Package (Single Incident)

		Description	120 PAX (6 Crews)	200 PAX (10 Crews)	320 PAX (16 crews)	400 PAX (20 crews)	520 PAX (26 Crews)	
			Crew on Ground	120 Personnel	200 Personnel			
CNG PROVIDED	Personnel	With Hand Crews	C2	1X Company CDR O3/O4 2X OPS NCOs E5-E7 1X LOGISTICS NCO E5 1X LNO (E7 - O2) 1X 1SG - E-8	1X TF Commander O-5 2X Company CDR O3/O4 4X OPS NCOs E5-7 2X LOGISTICS NCO E5 1X LNO (E7 - O2) 2X 1SG - E-8	1X TF Commander O-5 3X Company CDR - O3/O4 4X OPS NCOs E5-E7 4X LOGISTICS NCO E5 2X LNO (E7 - O2) 3X 1SG - E-8	1X TF Commander O-5 4X Company CDR - O3/O4 4X OPS NCOs E5-E7 4X LOGISTICS NCO E5 2X LNO (E7 - O2) 4X 1SG - E-8	1X TF Commander O-5 5X Company CDR - O3/O4 4X OPS NCOs E5-E7 4X LOGISTICS NCO E5 2X LNO (E7 - O2) 5X 1SG - E-8
			Medical Support	6X CLS qualified (reccomendation)	10X CLS qualified (reccomendation)	15X CLS qualified (reccomendation)	20X CLS qualified (reccomendation)	25X CLS qualified (reccomendation)
			Embedded PAO	1X medic (LNO)	1X medic (LNO)	1X medic (LNO)	1X medic (LNO)	1X medic (LNO)
			IC4U Crew	2X PAO Specialist	2X PAO Specialist	2X PAO Specialists	2X PAO Specialists	2X PAO Specialists
			Religious Services	2X IC4U operators	2X IC4U operators	2X IC4U operators	4X IC4U operators	4X IC4U operators
			Mechanic Support	1X Chaplain (Sundays)	1X Chaplain (Sundays)	1X Chaplain (Sundays)	1X Chaplain (Sundays)	1X Chaplain (Sundays)
				1X Mechanic	1X Mechanic	1X Mechanic	2X Mechanic	2X Mechanic
	Additional	In / Out Processing	1X Payroll Assistance 1X J6 Support	2X Payroll Assistance 1X J6 Support	3X Payroll Assistance 1X J6 Support	4X Payroll Assistance 1X J6 Support	5X Payroll Assistance 1X J6 Support	
		JFHQ Staff (Sacramento)	Estimated 10% of activated forces	Estimated 10% of activated forces	Estimated 10% of activated forces	Estimated 10% of activated forces	Estimated 10% of activated forces	
	Equipment	Vehicles	C2 Vehicles	4X Vehicles	6X Vehicles	8X Vehicles	10X Vehicles	12X Vehicles
			Mechanic Vehicle	1X Repair Vehicle	1X Repair Vehicle	1X Repair Vehicle	1X Repair Vehicle	1X Repair Vehicle
			C2 / Commo	1X IC4U	1X IC4U	1X IC4U	2X IC4U	2X IC4U
			PAO Vehicle	1X Vehicle	1X Vehicle	1X Vehicle	2X Vehicle	2X Vehicle
		Supply	Class I (food / water)	4X days of supply	4X days of supply	4X days of supply	4X days of supply	4X days of supply
Class II (Ind. Equip)			See TAB A	See TAB A	See TAB A	See TAB A	See TAB A	
Class III (Fuel)			Fuel from home station to incident site for organic vehicles	Fuel from home station to incident site for organic vehicles	Fuel from home station to incident site for organic vehicles	Fuel from home station to incident site for organic vehicles	Fuel from home station to incident site for organic vehicles	
Class VI (sundry items)			30 Days of Supply	30 Days of Supply	30 Days of Supply	30 Days of Supply	30 Days of Supply	
Class VIII (medical supply)			30 DOS of all individual perscription medicaion	30 DOS of all individual perscription medicaion	30 DOS of all individual perscription medicaion	30 DOS of all individual perscription medicaion	30 DOS of all individual perscription medicaion	
Class IX			Critical Repair parts	Critical Repair parts	Critical Repair parts	Critical Repair parts	Critical Repair parts	
Tentage		Company TOC	1X Tent (GP Small)	1X Tent (GP Small)	1X Tent (GP Medium)	1X Tent (GP Medium)	1X Tent (GP Medium)	
		Aid Station	1X Tent (GP Small)	1X Tent (GP Small)	1X Tent (GP Medium)	1X Tent (GP Medium)	1X Tent (GP Medium)	
Automation		Computers	2X Laptops w/ aircards	4X Laptops w/ aircards	6X Laptops w/ aircards	8X Laptops w/ aircards	10X Laptops w/ aircards	
		Handheld Radio	12X Handheld Radios	20X Handheld Radios	28X Handheld Radios	36X Handheld Radios	42X Handheld Radios	
	Blackberry / Cell Phone	3X Blkberry / Cell phones	4X Blkberry / Cell phones	5X Blkberry / Cell phones	6X Blkberry / Cell phones	7X Blkberry / Cell phones		
REQUESTING AGENCY PROVIDED	Personnel	Strike Team Leader - Military	1X BNML	1X BNML	1X BNML	1X BNML	1X BNML	
		Military Crew Advisors	3X STML	5X STML	8X STML	10X STML	13X STML	
			5X MCAD	10X MCAD	15X MCAD	20X MCAD	25X MCAD	
	Logistics	Vehicles	Transportation**	Contract bus from training site to incident Crew buses for transportation around incident site	Contract bus from training site to incident Crew buses for transportation around incident site	Contract bus from training site to incident Crew buses for transportation around incident site	Contract bus from training site to incident Crew buses for transportation around incident site	Contract bus from training site to incident Crew buses for transportation around incident site
			Equipment	PPE	CALFIRE supplies all PPE	CALFIRE supplies all PPE	CALFIRE supplies all PPE	CALFIRE supplies all PPE
		Bed down		6X 20 man tents Sleeping bag / mat	12X 20 man tents Sleeping bag / mat	17X 20 man tents Sleeping bag / mat	23X ten man tents Sleeping bag / mat	28X ten man tents Sleeping bag / mat
		Communication		6X Fire C2 Radios	12X Fire C2 Radios	18X Fire C2 Radios	24X Fire C2 Radios	30X Fire C2 Radios
		Services	Camp Site Services	Medical Support	Medical Support	Medical Support	Medical Support	Medical Support
	Fuel			Fuel	Fuel	Fuel	Fuel	
	Laundry			Laundry	Laundry	Laundry	Laundry	
	Showers			Showers	Showers	Showers	Showers	
	Latrines			Latrines	Latrines	Latrines	Latrines	
	Trash Service			Trash Service	Trash Service	Trash Service	Trash Service	
	Camp Lighting			Camp Lighting	Camp Lighting	Camp Lighting	Camp Lighting	
Power Generation	Power Generation			Power Generation	Power Generation	Power Generation		
Hand Washing Stations	Hand Washing Stations			Hand Washing Stations	Hand Washing Stations	Hand Washing Stations		
Meals	Meals			Meals	Meals	Meals		

Appendix A-2 Type II Hand Crew Force Package (Multiple Incidents)

		Description	120 PAX (6 Crews)	240 PAX (12 Crews)	360 PAX (18 crews)	480 PAX (24 crews)	600 PAX (30 crews)			
			Crew on Ground							
CNG PROVIDED	Personnel	With Hand Crews	C2	1X Commander O3/O4 2X OPS NCOs E5-E7 1X LOGISTICS NCO E5 1X LNO (E7 - O2) 1X 1SG - E-8	2X Commander O3/O4 4X OPS NCOs E5-E7 2X LOGISTICS NCO E5 2X LNO (E7 - O2) 2X 1SG - E-8	3X Commander O3/O4 6X OPS NCOs E5 3X LOGISTICS NCO E5-E7 3X LNO (E7 - O2) 3X 1SG - E-8	4X Commander O3/O4 8X OPS NCOs E5 4X LOGISTICS NCO E5-E7 4X LNO (E7 - O2) 4X 1SG - E-8	5X Commander O3/O4 10X OPS NCOs E5-E7 5X LOGISTICS NCO E5 5X LNO (E7 - O2) 5X 1SG - E-8		
			Medical Support	6X CLS qualified (recommendation) 1X medic (LNO)	10X CLS qualified (recommendation) 1X medic (LNO)	15X CLS qualified (recommendation) 1X medic (LNO)	20X CLS qualified (recommendation) 1X medic (LNO)	25X CLS qualified (recommendation) 1X medic (LNO)		
			Embedded PAO	2X PAO Specialist	2X PAO Specialist	4X PAO Specialists	4X PAO Specialists	4X PAO Specialists		
			IC4U Crew	2X IC4U operators	4X IC4U operators	6X IC4U operators	8X IC4U operators	10X IC4U operators		
			Religious Services	1X Chaplain (Sundays)	2X Chaplain (Sundays)	3X Chaplain (Sundays)	4X Chaplain (Sundays)	5X Chaplain (Sundays)		
			Mechanic Support	1X Mechanic	2X Mechanic	3X Mechanic	4X Mechanic	5X Mechanic		
			Additional	In / Out Processing	1X Payroll Assistance 1X J6 Support	1X Payroll Assistance 1X J6 Support				
				JFHQ Staff (Sacramento)	Estimated 10% of activated forces	Estimated 10% of activated forces				
				Vehicles	C2 Vehicles	4X Vehicles	8X Vehicles	12X Vehicles	16X Vehicles	20X Vehicles
					Mechanic Vehicle	1X Repair Vehicle	2X Repair Vehicles	3X Repair Vehicles	4X Repair Vehicles	5X Repair Vehicles
	Equipment	C2 / Commo	IC4U	1X IC4U	2X IC4U	3X IC4U	4X IC4U	5X IC4U		
			PAO Vehicle	1X GSA Rental	2X GSA Rental	3X GSA Rental	4X GSA Rental	5X GSA Rental		
		Supply	Class I (food / water)	4X days of supply						
			Class II (Ind. Equip)	See TAB A						
			Class III (Fuel)	Fuel from home station to incident site for organic vehicles	Fuel from home station to incident site and back for organic vehicles	Fuel from home station to incident site and back for organic vehicles	Fuel from home station to incident site and back for organic vehicles	Fuel from home station to incident site and back for organic vehicles		
Class VI (sundry items)			30 Days of Supply	30 Days of Supply	30 Days of Supply	30 Days of Supply	30 Days of Supply			
Class VIII (Medical Supply)			30 DOS of all individual perscription medication	30 DOS of all individual perscription medication	30 DOS of all individual perscription medication	30 DOS of all individual perscription medication	30 DOS of all individual perscription medication			
Class IX			Critical Repair parts	Critical Repair parts	Critical Repair parts	Critical Repair parts	Critical Repair parts			
Tentage		Company TOC	1X Tent (GP Small)	2X Tent (GP Small)	3X Tent (GP Small)	4X Tent (GP Small)	5X Tent (GP Small)			
		Aid Station	1X Tent (GP Small)	2X Tent (GP Small)	3X Tent (GP Small)	4X Tent (GP Small)	5X Tent (GP Small)			
Automation	Computers	2X Laptops w/ aircards	4X Laptops w/ aircards	6X Laptops w/ aircards	8X Laptops w/ aircards	10X Laptops w/ aircards				
	Handheld Radio	12X Handheld Radios	24X Handheld Radios	36X Handheld Radios	48X Handheld Radios	60X Handheld Radios				
	Blackberry / Cell Phone	3X Blkberry / Cell phones	6X Blkberry / Cell phones	9X Blkberry / Cell phones	12X Blkberry / Cell phones	15X Blkberry / Cell phones				
REQUESTING AGENCY PROVIDED	Personnel	Strike Team Leader - Military	1X MLO	2X BNML	3X BNML	4X BNML	5X BNML			
		Military Crew Advisors	3X STLM	3X STLM	9X STLM	12X STLM	15X STLM			
			5X MCAD	10X MCAD	15X MCAD	20X MCAD	25X MCAD			
	Logistics	Vehicles	Transportation**	Contract bus from training site to Incident						
				Crew buses for transportation around incident site						
		Equipment	PPE	CALFIRE supplies all PPE	CALFIRE supplies all PPE	CALFIRE supplies all PPE	CALFIRE supplies all PPE	CALFIRE supplies all PPE		
				Bed down	6X 20 man tents Sleeping bat / mat	12X 20 man tents Sleeping bat / mat	18X 20 man tents Sleeping bat / mat	24X 20 man tents Sleeping bat / mat	30X 20 man tents Sleeping bat / mat	
				Communication	6X Fire C2 Radios	12X Fire C2 Radios	18X Fire C2 Radios	24X Fire C2 Radios	30X Fire C2 Radios	
		Services	Incident Base Services	Medical Support						
				Fuel	Fuel	Fuel	Fuel	Fuel		
				Laundry	Laundry	Laundry	Laundry	Laundry		
				Showers	Showers	Showers	Showers	Showers		
				Latrines	Latrines	Latrines	Latrines	Latrines		
				Trash Service						
Camp Lighting	Camp Lighting	Camp Lighting	Camp Lighting	Camp Lighting						
Power Generation	Power Generation	Power Generation	Power Generation	Power Generation						
Hand Washing Stations	Hand Washing Stations	Hand Washing Stations	Hand Washing Stations	Hand Washing Stations						
Meals	Meals	Meals	Meals	Meals						

Appendix A-3 Type II Hand Crew Force Package Cost Estimation

Single Incident 120 PAX (6 Crews)

Cost Estimator	Category	Category	Position / Item	Quantity	Days / Miles	Cost per day / mile	Total	
CNG	Personnel	C2	O4 Commander	1	30	\$492.00	\$14,760.00	
			OPS NCO	2	30	\$294.00	\$17,640.00	
			LOG NCO	1	30	\$288.00	\$8,640.00	
			LNO	1	30	\$413.00	\$12,390.00	
			1SG	1	30	\$294.00	\$8,820.00	
		Medical	CLS Qualified	6	30	\$288.00	\$51,840.00	
			Medical LNO	1	30	\$492.00	\$14,760.00	
		PAO	PAO Specialist	2	30	\$413.00	\$24,780.00	
		IC4U	CREW	2	30	\$294.00	\$17,640.00	
		Chaplain	Chaplain	1	5	\$413.00	\$2,065.00	
		Mechanic	Mechanic	1	30	\$288.00	\$8,640.00	
		Processing	Payroll / Commo	2	5	\$413.00	\$4,130.00	
		CREWS	Type II handcrews	120	30	\$288.00	\$1,036,800.00	
								Subtotal
	JFHQ	10% of Activated Personnel					\$122,290.50	
	Equipment	Vehicles	HMMWV	7	1000	\$0.78	\$5,460.00	
		Meals	Feeding	139	3	\$34.00	\$14,178.00	
		Medical	Bags	150	1	\$12.50	\$1,875.00	
		Automation	Aircards	2	1	\$60.00	\$120.00	
			Phones	3	1	\$50.00	\$150.00	
							Subtotal	\$1,366,978.50
						Indirect Overhead (17%)	\$232,386.35	
						TOTAL	\$1,599,364.85	

NOTE: This estimate does not include the additional costs of Lodging (training phase), medical costs due to injury, or costs of PPE, tools and equipment

Appendix A-4 Type II Hand Crew Individual Equipment List

CLASS II / OCIE (CNG PROVIDES PER SOLDIER)	
ITEM	QTY
RUCKSACK (W/O FRAME)	1
BAG, BARRACKS (LAUNDRY)	2
BAG, DUFFEL	1
BAG, SLEEPING	1
BAG, WATERPROOF	1
BELT, ACU	1
BOOT (NOTE)	1
CAMELBACK	1
CAP, ACU	1
CAP, WATCH (APFU)	1
CARD, ID	1
CASE, FIELD, FIRST AID	1
CHAPSTICK	1
DRAWERS, COTTON	8
EAR PLUGS W/ CASE	2
FLASHLIGHT	1
FOOT POWDER	1
GLOVE INSERT (WOOL)	1
GLOVE SHELL (LEATHER)	1
HANDKERCHIEF	4
INSECT REPELLENT	1
LINER, FIELD JACKET	1
MRE	3
PARKA, C/W (GORTEX)	1
OR PARKA, WET WTHR	1
PONCHO, NYLON	1
SHIRT, ACU	4
SHORTS, APFU	2
SHIRTS, APFU	2
SHOES, APFU	1
SHOES, SHOWER	1
SOCKS, CUSHION SOLE	13
SUNSCREEN	1
TAG, PERSONAL ID W/ NECKLACE (2)	1
TOILET ARTICLES	30DOS
TOWEL, BATH	2
TROUSER, BDU	4
TROUSER, WET WEATHER	1
OR TROUSERS, C/W (GORTEX)	1
UNDERSHIRT, COTTON (DESERT TAN)	8
WASHCLOTH	2
PANTS, APFU	1
JACKET, APFU	1
UNDERSHIRT, C/W POLYPRO	2
DRAWERS, C/W, POLYPRO	2
BALACLAVA	1

AGENCY PROVIDED
ITEM
MAT, SLEEPING
SAFETY HAT
TROUSERS, FIRE RETARDANT
SHIRTS, FIRE RETARDANT
GOGGLES, SAFETY
GLOVES, WORK
LAMP, HEAD w/ batteries
SHELTER, EMERGENCY FIRE W/ CASE
TOOLS, FIRE FIGHTING
RADIOS (as required)

NOTE: CNG will utilize CALFIRE provided WFF boots or BOOT, COMBAT, ALL LEATHER UPPER WITH SPPED LACES (PGC 01895). Boots with synthetic materials are not authorized.

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CHAPTER 2 - CNG BULLDOZERS

2.1 Purpose:

Severe and recurrent fire conditions within the state of California have identified the need for additional bulldozers to support California fire agencies in the construction of fire lines. The CNG maintains bulldozer equipment and operators which may be used to augment fire agencies when additional resources are not reasonably available. This plan is intended to identify the mutual duties, responsibilities and expectations of all concerned agencies for the activation and employment of CNG bulldozer capabilities. This plan, along with associated appendices, standardizes CNG dozer configuration, operator fire safety training, staffing and operational employment in order to clarify and expedite flow of critical resources during a fire emergency.

2.1 Explanation of Terms

1. CNG shall refer to the California National Guard, to include all assigned soldiers and airmen, as commanded by the Adjutant General
2. CAL EMA shall refer to the California Emergency Management Agency under the authority of the Governor of the State of California
3. CALFIRE shall refer to the California Department of Forestry and Fire Protection.
4. REQUESTING AGENCY shall refer to the state or federal agency requesting state activation of CNG military handcrews.

2.2 Assumptions, Restrictions and Limitations

1. The CNG will provide available bulldozers and qualified operators upon request of CAL EMA. The number of available dozers will vary due to unit deployments, equipment maintenance and available licensed operators.
2. The CNG will maintain the necessary military command, control, and support personnel and equipment required to conduct bulldozer operations.
3. The CNG shall determine what terrain is safe for assigned dozer crews based on operator experience. The military commander on the ground retains the right to decline to conduct operations if deemed unsafe for assigned operators.
4. Activation, to include mobilization, training and out-processing of CNG bulldozers will not exceed 30 days without prior approval of the Adjutant General.

5. Activated personnel are expected to perform 22 days of duty in support of the Incident Commander to which they are assigned.
6. CAL EMA is the only authorized requesting authority for activation of CNG bull dozers.
7. Activated personnel will be prepared to deploy NLT 48 hours after receipt of the Mission Request Tasking (MRT) by the Joint Forces Headquarters (JFHQ), Joint Operations Center (JOC) from CAL EMA.
8. CAL EMA will only request the "Activation" of CNG bulldozers in an emergency situation when life and/or property is immediately threatened, and when civilian resources are insufficient, have been exhausted or are not reasonably available.
9. "Activation" of CNG bulldozers authorizes the CNG to mobilize bulldozer operators along with command, control and support staff on Emergency State Active Duty (ESAD) status at home station armories and headquarters. "Activated" forces will remain mobilized at home station until assigned to an incident or released from "Activated" status.
10. A notification of "Be Prepared" means that CAL EMA has determined conditions exist which may require the "Activation" of CNG bull dozers. When directed to "Be Prepared", the CNG will send a "Warning Order" to subordinate commands with available bulldozers and operators which authorizes the use of alert rosters to notify service members of possible "Activation." Bulldozer operators will not mobilize on ESAD or any other active duty status when directed to "Be Prepared."
11. "Activation" of CNG bulldozers includes, at a minimum, the necessary military requirements to command, control and sustain military forces. Appendix A-3 outlines minimum military requirements and will be considered the basis for all pre-approved costs.
12. "Activation" of CNG bulldozers authorizes maintenance personnel to remain on ESAD until post-operational maintenance is complete.

2.3 Authorities / Responsibilities

2.3.1 CAL FIRE SHALL:

1. Determine all requirements for certification for bulldozer operators.
2. Provide instructor, exam proctor and materials required to conduct classroom training.
3. Determine the minimum operational and safety requirements for CNG bulldozers and coordinate necessary upgrades and equipment modification with the CNG.

2.3.2 THE REQUESTING AGENCY SHALL

1. Coordinate with CAL FIRE to provide dozer operator refresher training for CNG bulldozers and operators at the incident site.
2. Coordinate to provide food for bulldozer operators and assigned C2 during the training period and at the Incident base camp.
3. Provide qualified Military Liaison Officers (MLOs) Strike Team Leader Dozers (STDZ's) and Military Crew Advisors (MCADs) to support activated CNG bulldozers as identified in Appendix A-3 and A-4.
4. Provide all required PPE to activated CNG bulldozer operators, including any minor boot shortfalls.
5. Provide shaded and/or climatically maintained accommodations for off shift sleeping, rest and recuperation for CNG bulldozer operators and C2 personnel.
6. Provide all medial support for activated bulldozer and assigned command and control personnel.
7. Provide the following services at incident camp sites for CNG bulldozer use:
 - Fuel
 - Laundry
 - Showers
 - Latrines
 - Trash Service
 - Camp Lighting
 - Power Generation
 - Hand Washing Stations
 - Meals

2.3.3 THE CNG SHALL

1. Provide REQUESTING AGENCY with updated personnel roster and PPE sizing requirements at the time of activation.
2. Arrange for the feeding of CNG dozer crews when mobilized at home station, in transit to the training site and demobilization at home station. Expense for contracted meals will be billed to CAL EMA in accordance with procedures outlined in the Cooperative Agreement.
3. Conduct medical screening and fitness evaluation of all dozer crew personnel prior to activation.
4. Provide transportation of bulldozers, operators, and command and control personnel to and around the incident site.
5. Provide internal CNG public affairs support for activated bulldozer crews.
6. Coordinate media themes and messages with the CAL FIRE and CAL EMA JIC and the Incident Commanders information officers
7. Provide internal hand-held radio communication as required to maintain command and control of activated CNG bulldozer forces. Use of CNG command and control frequencies shall not interfere with operation safety concerns of CNG crews while on fire line assignment.
8. Provide external communication and internet capability for all activated CNG bulldozers in coordination with the incident.
9. Provide maintenance contact team for each location in which CNG bulldozer assets are deployed.

2.4 CNG Bulldozer ordering procedures

10. Incident Commanders of REQUESTING AGENCY request additional bulldozer crews through the Geographic Area Coordination Centers (GACC's).
11. The GACC submits request for additional bulldozers to the CALFIRE Command Center (Sacramento, CA) through ROSS.
12. CAL FIRE command center determines if CNG bulldozers are required.
13. CAL FIRE requests CNG bulldozers through Fire and Rescue Branch at CAL EMA
14. CAL EMA Fire and Rescue Branch notifies JFHQ, JOC of requested number of bulldozers and transmits Mission Request Tasking (MRT) depending on available dozers
15. If required, CAL EMA Fire and Rescue Branch coordinates the upgrade or modification of CNG dozers to occur at unit home station.
16. JFHQ, JOC notifies key staff of mission approval and acceptance.
17. JFHQ, JOC activates units with bulldozer operators
18. JFHQ staff coordinates with REQUESTING AGENCY to determine time and location of classroom training. Classroom training should be conducted at unit armory if possible
19. "Activated" CNG bulldozers are configured for fire duty at home station, assigned operators and command and control personnel report to home station for in-processing and training

2.5 CNG Bulldozer Training and Mobilization Process

<u>Day</u>	<u>Action</u>
<i>Pre-activation</i>	<p>REQUESTING AGENCY identifies need for additional bulldozers. CAL EMA advises JFHQ, JOC that CNG bulldozers may be required. JFHQ J3 deploys liaison officer at CAL EMA and GACC's.</p> <p>REQUESTING AGENCY identifies Military Liaison Officers (MLO's), Strike Team Leader Dozers (STDZ) and Military Crew Advisors (MCADS)</p> <p>CAL FIRE coordinates with the CNG and REQUESTING AGENCY to determine suitable location to conduct classroom training of CNG dozer crews, unit armory is preferred. CAL FIRE identifies instructors for classroom training.</p>
<i>Activation</i> Day 1	<p>CAL EMA requests CNG bulldozers through JFHQ, JOC. JOC reviews availability and activates requested forces and supporting staff.</p> <p>REQUESTING AGENCY directs MLO's, STDZ's and MCADS to report to the classroom training location.</p> <p>CAL FIRE and REQUESTING AGENCY coordinate to ensure meals and lodging are available at the classroom training site location.</p> <p>REQUESTING AGENCY coordinates with the CNG to secure transportation of CNG bulldozers to the training location as well as to and around the incident location.</p> <p>REQUESTING AGENCY obtains sizing requirements from CNG and prepares PPE for issue at the classroom training location</p> <p>ACTIVATED CNG dozer crew personnel mobilize at home station.</p>
Day 2	<p>CAL FIRE classroom instructors arrive at training location</p>

REQUESTING AGENCY's MLO's, STDZ's and MCADS to arrive at the classroom training location.

JFHQ in-processing support personnel travel to classroom training site and prepare to in-process CNG dozer crews

CNG dozer crews conduct in-processing at classroom training site

REQUESTING AGENCY provides PPE to all CNG dozer crews

REQUESTING AGENCY assigns MLO's, STDZ's and MCAD's to CNG bulldozers

CNG dozer crews complete classroom instruction.

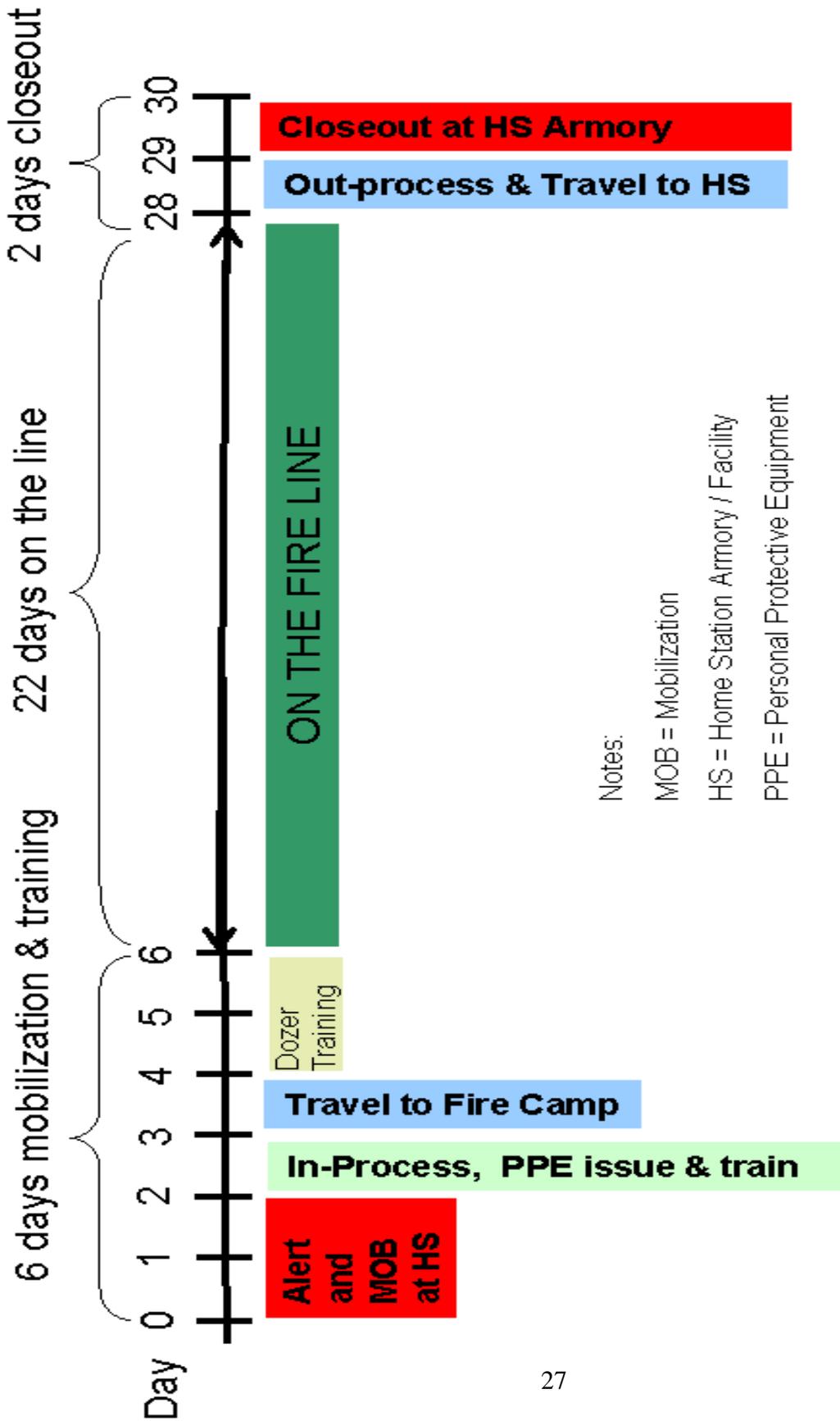
Day 3 CNG bulldozers conduct movement to Incident location and secure billeting within the base camp upon arrival.

Day 4-5 CNG Dozer crew commander coordinates with Incident Commander to discuss operations and prepare for bulldozer training.

CNG dozer operators conduct refresher training at Incident site with REQUESTING AGENCY.

Day 6 CNG bulldozers begin operations.

2.6 CNG Bulldozer Deployment Timeline



Appendix B-1 CNG Bulldozer Force Package (Single Incident)

CNG PROVIDED	Personnel	With Crews	Description	2X Dozers	4X Dozers	6X Dozers
			Crew on Ground	4X Operators	8X Operators	12X Operators
			Command & Control	1X NCOIC - E8	1X NCOIC - E8	1X NCOIC - E8
		1X OPS / DRIVER - E6		1X OPS / DRIVER - E6	1X OPS / DRIVER - E6	
		Mechanic	2X Mechanic	2X Mechanic	2X Mechanic	
	Additional	JFHQ Staff (Sacramento)	Estimated 10% of activated forces	Estimated 10% of activated forces	Estimated 10% of activated forces	
	Equipment	Vehicles	Bulldozers	2X Bulldozers	4X Bulldozers	6X Bulldozers
			Bulldozer Transport	2X 916's with trailer	4X 916's with trailer	6X 916's with trailer
			C2	1X Vehicle	1X Vehicle	1X Vehicle
			Mechanic	1X Vehicle	1X Vehicle	1X Vehicle
		Supply	Class I (food / water)	3X days of supply	3X days of supply	3X days of supply
			Class II (Ind. Equip)	See TAB A	See TAB A	See TAB A
			Class III (Fuel)	Fuel from home station to incident site for organic vehicles	Fuel from home station to incident site for organic vehicles	Fuel from home station to incident site for organic vehicles
			Class VI (sundry items)	30 Days of Supply	30 Days of Supply	30 Days of Supply
			Class VIII (medical supply)	30 DOS of all individual perscription medication	30 DOS of all individual perscription medication	30 DOS of all individual perscription medication
			Class IX	Critical Repair Parts	Critical Repair Parts	Critical Repair Parts
			Automation	Computers	1X Laptop w/ aircards	1X Laptop w/ aircard
		Handheld Radios		2X Handheld Radios	3X Handheld Radios	4X Handheld Radios
		Blackberry / Cell Phone		1X Blackberry / Cell phone	1X Blackberry / Cell phone	1X Blackberry / Cell phone
AGENCY PROVIDED		Personnel		Military Crew Advisors	1X MCAD	2X MCAD
	Logistics	Vehicles	Bulldozers	1X Dozer (part of team)	2X Dozers	3X Dozers
		Equipment	PPE	AGENCY provides all PPE (See TAB A)	AGENCY provides all PPE (See TAB A)	AGENCY provides all PPE (See TAB A)
			Bed down	Tentage for 6X personnel	Tentage for 12X personnel	Tentage for 16X personnel
				Sleeping bag / mat	Sleeping bat / mat	Sleeping bat / mat
	Communication	1X Fire C2 radio	2X Fire C2 radios	3X Fire C2 radios		
	Services	Incident Base Services	Medical Support	Medical Support	Medical Support	Medical Support
			Fuel	Fuel	Fuel	Fuel
			Medical Support	Medical Support	Medical Support	Medical Support
			Maintenance Support	Maintenance Support	Maintenance Support	Maintenance Support
			Laundry	Laundry	Laundry	Laundry
			Showers	Showers	Showers	Showers
			Latrines	Latrines	Latrines	Latrines
			Trash Service	Trash Service	Trash Service	Trash Service
Camp Lighting			Camp Lighting	Camp Lighting	Camp Lighting	
Power Generation			Power Generation	Power Generation	Power Generation	
Hand Washing Stations			Hand Washing Stations	Hand Washing Stations	Hand Washing Stations	
Meals	Meals	Meals	Meals			

Appendix B-2 CNG Bulldozer Force Package (Multiple Incidents)

CNG PROVIDED	Personnel	With Crews	Description	2X Dozers	4X Dozers	6X Dozers
			Crew on Ground	4X Operators	8X Operators	12X Operators
			Command & Control	1X NCOIC - E8 1X OPS / DRIVER - E6	2X NCOIC - E8 2X OPS / DRIVER - E6	3X NCOIC - E8 3X OPS / DRIVER - E6
		Mechanic	2X Mechanic	4X Mechanic	6X Mechanic	
	Additional	JFHQ Staff (Sacramento)	Estimated 10% of activated forces	Estimated 10% of activated forces	Estimated 10% of activated forces	
	Equipment	Vehicles	Bulldozers	2X Bulldozers	4X Bulldozers	6X Bulldozers
			Bulldozer Transport	2X 916's with trailer	4X 916's with trailer	6X 916's with trailer
			C2	1X Vehicle	2X Vehicle	3X Vehicle
			Mechanic	1X Vehicle	2X Vehicle	3X Vehicle
		Supply	Class I (food / water)	3X days of supply	3X days of supply	3X days of supply
			Class II (Ind. Equip)	See TAB A	See TAB A	See TAB A
			Class III (Fuel)	Fuel from home station to incident site for organic vehicles	Fuel from home station to incident site for organic vehicles	Fuel from home station to incident site for organic vehicles
			Class VI (sundry items)	30 Days of Supply	30 Days of Supply	30 Days of Supply
			Class VIII (medical supply)	30 DOS of all individual perscription medication	30 DOS of all individual perscription medication	30 DOS of all individual perscription medication
			Class IX	Critical Repair Parts	Critical Repair Parts	Critical Repair Parts
			Automation	Computers	1X Laptop w/ aircards	2X Laptop w/ aircards
		Handheld Radios		2X Handheld Radios	4X Handheld Radios	6X Handheld Radios
Blackberry / Cell Phone		1X Blackberry / Cell phone		1X Blackberry / Cell phone	1X Blackberry / Cell phone	
AGENCY PROVIDED	Personnel		Military Crew Advisors	1X MCAD	2X MCAD	3X MCAD
	Logistics	Vehicles	Bulldozers	1X Dozer	2X Dozers	3X Dozers
		Equipment	PPE	AGENCY provides all PPE (See TAB A)	AGENCY provides all PPE (See TAB A)	AGENCY provides all PPE (See TAB A)
			Bed down	Tentage for 6X personnel Sleeping bag / mat	Tentage for 12X personnel Sleeping bat / mat	Tentage for 18X personnel Sleeping bat / mat
			Communication	1X Fire C2 radio	2X Fire C2 radios	3X Fire C2 radios
	Services	Incident Base Services	Medical Support	Medical Support	Medical Support	
			Fuel	Fuel	Fuel	
			Medical Support	Medical Support	Medical Support	
			Maintenance Support	Maintenance Support	Maintenance Support	
			Laundry	Laundry	Laundry	
			Showers	Showers	Showers	
			Latrines	Latrines	Latrines	
			Trash Service	Trash Service	Trash Service	
			Camp Lighting	Camp Lighting	Camp Lighting	
Power Generation			Power Generation	Power Generation		
Hand Washing Stations	Hand Washing Stations	Hand Washing Stations				
Meals	Meals	Meals				

Appendix B-3 CNG Bulldozer Force Package Cost Estimator

2X Dozers

Cost Estimator	Category	Category	Position / Item	Quantity	Days / Miles / Hours	Cost per day / mile / hours	Total	
CNG PROVIDED	Personnel	C2	NCOIC	1	30	\$294.00	\$8,820.00	
		Operators	Operators	4	30	\$288.00	\$34,560.00	
		Mechanic	Mechanic	2	30	\$288.00	\$17,280.00	
								Subtotal
		JFHQ	10% of Activated Personnel					\$6,066.00
	Equipment	Dozers	D7 dozer (hourly)	2	150	\$45.00	\$13,500.00	
		Vehicles	M916 w/ trailer	2	1000	\$0.78	\$1,560.00	
		Meals	Feeding	7	3	\$34.00	\$714.00	
		Automation	Aircards	1	1	\$60.00	\$60.00	
			Phones	1	1	\$50.00	\$50.00	
							Subtotal	\$82,610.00
							Indirect Overhed (17%)	\$14,043.70
						TOTAL	\$96,653.70	

Dozer reimbursement rate is 45.00 / hour (includes fuel costs). Rate assumes average of 5 hours of operation per day for 30 days

NOTE: This estimate does not include the additional costs of Lodging (training phase), medical costs due to injury, or costs of PPE, tools and equipment

CHAPTER 3 - CNG TRANSPORTATION ASSETS

3.1 Purpose

Conducting ground fire suppression operations in remote locations creates additional transportation requirements for off-road capable vehicles to transport firefighting personnel and equipment to and from the incident site. The California National Guard maintains various off-road capable vehicles which may be used to transport firefighters and equipment. This plan is intended to familiarize requesting agencies with equipment capabilities and limitations as well as identify the mutual duties, responsibilities and expectations for the activation and employment of CNG ground transportation capabilities.

3.2 Assumptions, Restrictions and Limitations

1. Availability of CNG transportation assets will vary depending upon unit deployments, equipment maintenance, scheduled training and geographic location.
2. Commanders of activated CNG ground transportation forces shall determine what terrain is safe for transit based on operator experience and equipment capabilities. The military commander on the ground retains the right to decline to conduct operations if deemed unsafe.
3. "Activation", to include mobilization, training and out-processing of CNG ground transportation forces will not exceed 30 days without prior approval of the Adjutant General.
4. CAL EMA is the only authorized requesting authority for activation of CNG Ground transportation forces.
5. Activated personnel will be prepared to deploy NLT 48 hours after receipt of the Mission Request Tasking (MRT) by the Joint Forces Headquarters (JFHQ), Joint Operations Center (JOC) from CAL EMA.
6. "Activation" of CNG ground transportation assets authorizes the CNG to mobilize command, control and support staff on Emergency State Active Duty (ESAD) status at home station armories and headquarters. "Activated" forces will remain mobilized at home station until assigned to an incident or released from "Activated" status.
7. A notification of "Be Prepared" means that CAL EMA has determined conditions exist which may require the "Activation" of ground transportation forces. When directed to "Be Prepared", the CNG will send a "Warning Order" to subordinate commands to ensure ground transportation vehicles and operators are available and prepared for

tasking "Activation." Ground transportation forces will not mobilize on ESAD or any other active duty status when directed to "Be Prepared."

3.3 Authorities / Responsibilities

3.3.1 CAL FIRE SHALL:

1. Determine all requirements for fire safety training for CNG ground transportation operators.
2. Provide instructor, exam proctor and materials as required to fire safety training for CNG transportation operators.
3. Determine the minimum operational and safety requirements for CNG ground transportation operators

3.3.2 THE REQUESTING AGENCY SHALL

1. Provide all required PPE to activated CNG ground transportation operators.
2. Provide shaded and/or climatically maintained accommodations for off shift sleeping, rest and recuperation for CNG ground transportation crews and command and control personnel.
3. Provide all medial support for activated ground transportation crews and assigned command and control personnel.
4. Provide the following services at incident camp sites or staging area for CNG use:

- Fuel
- Laundry
- Showers
- Latrines
- Trash Service
- Camp Lighting
- Power Generation
- Hand Washing Stations
- Meals

3.3.3 THE CNG SHALL

1. Provide REQUESTING AGENCY with updated personnel roster and PPE sizing requirements at the time of activation.
2. Arrange for the feeding of CNG ground transportation crews when mobilized at home station, and in transit to and from the incident location or staging area. Expense for contracted meals will be billed to CAL EMA in accordance with procedures outlined in the Cooperative Agreement.
3. Provide all transportation of vehicles, operators and command and control personnel to and around the incident site.
4. Provide CNG public affairs support for activated ground transportation forces.
5. Coordinate media themes and messages with the CAL FIRE and CAL EMA JIC and the Incident Commanders information officers
6. Provide internal hand-held radio communication as required to maintain command and control of activated ground transportation forces. Use of CNG command and control frequencies shall not interfere with operation safety concerns of CNG crews while on fire line assignment.
7. Provide maintenance contact team for each location in which CNG ground transportation assets are deployed.

3.4 CNG Ground Transportation Ordering Procedures

10. Incident Commanders of REQUESTING AGENCY request ground transportation support through the Geographic Area Coordination Centers (GACC's).
11. The GACC submits request to the CAL FIRE Command Center (Sacramento, CA) through ROSS.
12. CAL FIRE command center determines if CNG vehicles are required.
13. CAL FIRE requests CNG vehicles through Fire and Rescue Branch at CAL EMA
14. CAL EMA Fire and Rescue Branch notifies JFHQ, JOC of requested support. Support request includes number of personnel or amount / type of equipment to be transported and the location and terrain for the area of support. JFHQ will determine the number and type of vehicle to best fit the mission.
15. JFHQ, JOC notifies key staff of mission approval and acceptance.
16. JFHQ, JOC activates units with appropriate vehicles
17. "Activated" CNG vehicles assemble at home station and report the identified assembly area for any required PPE issue and mission briefing.

Appendix C-1 CNG Ground Transportation Equipment Characteristics

C-1.1 HMMWV

High Mobility Multipurpose Wheeled Vehicle (HMMWV)

Statistics and Capabilities:

- Range ~275 miles
- Max speed of 65 mph (dependent on armor/payload)
- Max Payload ~1.25Tons of cargo
- Crew of 1-5

-Used for:

- Bulk Cargo Transport
- Equipment Transport
- Troop Transport
- Security/support operations



C-1.2 LMTV / MTV

Transportation- Light/Medium Tactical Vehicle

Light Medium Tactical Vehicle

- Range: 400 miles
- Speed: 60 mph
- Payload: 5,000 lbs
- Crew: 3-10
- Use: Light cargo/troop carrier



AS OF: 07MAY10

Medium Tactical Vehicle

- Range: 300 miles
- Speed: 65 mph
- Payload: 10,000 lbs
- Crew: 3-20
- Use: Light/medium cargo/troop carrier



C-1.3 5 Ton Cargo Transports

Transportation- 5-Ton Cargo Transports

Statistics and Capabilities:

- Range ~300 miles
- Max speed of 65 mph (but limited to 40 mph for safety reasons)
- Max Payload ~5Tons of cargo
- Crew of 3

-Used for:

- Bulk Cargo Transport
- Light/medium Equipment Transport
- Troop Carrier



C-1.4 Tractor Trailers

Transportation- Tractor Trailers

Statistics and Capabilities:

- Range ~500 miles
- Max speed of ~60 mph
- Max Payload ~60 Tons of cargo
- Crew of 2-3

-Used for:

- Bulk Cargo Transport
- Large Equipment Transport



C-1.5 Palletized Load System

Transportation- Palletized Load System (PLS)

Statistics and Capabilities:

- Range ~300 miles
- Max speed of 60 mph
- Max Payload ~16 Tons of cargo
- Crew of 2

- Used for:
 - Bulk Cargo Transport
 - Large Equipment Transport



CHAPTER 4 – ENGINES (TBD)