Introduction to PDA Facility Considerations

The PDA Facility Considerations document is intended to complement the *Preliminary Damage Assessment (PDA)* and for use in collecting sufficient information to estimate the type, quantity, and cost of eligible damage to an area impacted by an emergency or disaster incident. The information captured on this form can then be used as a *PDA Tool* which summarizes damage by Applicant and County and used by FEMA as a validation tool. This would be a substantial time saving step in the PDA process and would help in determining the recommendation for a Declaration.

This checklist may not include all facilities or damage considerations, but provides a starting point for information collection.

Sources for Cost Estimating include:

- Invoices/receipts for current or historic costs
- Repair bids or completed costs
- A/E estimate
- Industry standard construction cost estimating resources (e.g., RSMeans, BNi Costbooks, Marshall & Swift, Sweet's Unit Cost Guide, etc.)
- FEMA cost codes (more appropriate for road and park estimates)

Items needed

- Insurance Policies
- Photos
- Flood Plain Information
- Environmental/Historical Issues

Event Date	Event Type	PDA I	Date	County	Applica	ant	Applicant Contact Name	Preparer's Name
Category	Damaged	Damaged Item		Cost Considerations		Workspace to Estimate Quantity (Units)		Total Estimated Cost
A – Debris	 Trees and wood debris photos and GPS are needed for debris piles, trees and branches. Photos Attached 		 Collection, transport, reduction, staging, and disposal; based on stump sizes Add estimate for debris piles and scattered debris. Small tree (<12" dia) = 6 CY Medium tree (<24" dia) = 24 CY Large tree (>36" dia) = 54 CY 		Lengthx WidthX Depth= divided by 27=CY X 1.5=TONS		Scattered Debris \$10.00CY	
	 Building compone 	nts or contents	dispos • Bu • Ho	otion, transport, reduct sal ilding height per story use volume of debris use + basement = 50	= 10 ft = 25 CY		CY/ TONS	\$

Event Date	ate Event Type PDA Date County		County	Applicant	Applicant Contact Name	Preparer's Name		
Category		Damaged It	tem	Cost Considerations			Workspace to Estimate Quantity (Units)	Total Estimated Cost
 General debris (sand, mud, silt, gravel, other disaster-related wreckage) 				 Collection, transport, reduction, staging, and disposal Measure debris piles as cubes, not cones Length of debris pile: 1 pace = 3 ft 1 acre of debris 3.33 yards high = 16,117 CY 			CY/ TONS	\$
	■ Hazardous debris			Special S	cial handling, staging, cosal for asbestos or oth	ontainment, and er hazardous debris	CY/ TONS	\$
		Road clearance, sa	lting	NumEstir	wide or site specific (sq ber of staff members w mated overtime hours po rage salary pment	orking		\$
		Search and rescue, evacuation		 Number and type of vehicles/equipment Number of staff members working Estimated overtime hours per person Average salary 				\$
B – Emergency Protective Measures		■ Shelters			ber of shelters ber of people per shelte ntity of supplies, meals, eframe of operation			\$
	Provision of food, water, ice, and other essential needs for the community		 Number of staff members working Estimated overtime hours per person Average salary Quantity of materials Number of people served 				\$	
	Rescue, care, shelter, and essential needs for household pets and service animals			 Number of staff members working Estimated overtime hours per person Average salary Facility costs Quantity and type of supplies 				\$

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	 Removal of health a hazards (i.e. Building an immediate threat 	gs that pose	nber of staff members w imated overtime hours p trage salary antity and type of equipn plies	er person		\$
	 Temporary construct Levees, berms, d Buttressing, brace Emergency repair protective facilitie 	likes	mber of staff members w imated overtime hours p erage salary antity and type of equipn plies	er person		\$
	Emergency Protective Boarding window Covering the roof Preventative mole	ve Measures s or doors f = Esti	nber of staff members w mated overtime hours p trage salary hipment antity and type of materia	er person		\$
	■ Emergency Operation	ons Center = Esti	nber of staff members w mated overtime hours p rage salary ies being performed by t sonnel antity and type of equipn	er person the center's		\$
	Emergency Commu		antity and type of equipment or cell phones)	nent (i.e. mobile radio		\$
	 Sandbagging 	Esti	nber of staff members w mated overtime hours p rage salary e of materials/supplies antity			\$
	■ Pumping	1 0.0	pacity of pumps onber of hours of operation notity	on		\$

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Category	Damaged It	em	Cost Consider	rations		space to Quantity (Units)	Total Estimated Cost
	 Temporary generate 	■ Nun	ver of generators nber of hours of operation /function of generators ntity	on			\$
W	Road	■ Size	erial type (i.e. paved, gr e (length x width) nificant lighting or signa			SF	\$
	Bridge		erial type (i.e. concrete, ess requirements e (length x width) noval	metal, wood)	SF		\$
C – Roads and Bridges	l = Culverte/drainage structures		erial type (i.e. concrete, e (length x width, diamet	15. A. S. C. T. C.		LF	\$
	Low water crossings		erial type (i.e. paved, co e (length x width)	oncrete)		SF	\$
	■ Rip rap	■ Size		otextile, gabions)		CY	\$
	Dams, Levees, Draina	ge Channels, Canals, S	Sediment Basins, Sho	re Protective Devices			
D – Water Control	■ Embankment		erial type (i.e. earth, cor e (length x width x depth			СҮ	\$
Facilities	- Lining		erial type (i.e. concrete, (length x width)	geotextile)		SF	\$

Event Date	Event Type PDA Date County		Applicant	Applicant Contact Name	e Preparer's Name	
Category	Category Damaged Item		Cost Consider	ations	Workspace to Estimate Quantity (Units)	Total Estimated Cost
	■ Rip Rap	■ Size		otextile, gabions)	CY	\$
	Pumping Facility					
	■ Pumps (fuel tanks)		acity (GPM) er source (electric vs. c ntity	liesel)	HR	\$
	■ Generators	■ Qua	er (kW, HP) ntity ber of hours of operation	on	HR	\$
	Electrical (wiring, valves controls, SCADA)	Type	rall length of wiring e of wiring of facility (SF)		LF	\$
	Other Water Control Facil	ities				
	 Hydroelectric plant 	Pow Gen	/area of plant (SF) erhouse erator (quantity and pov ine (quantity and size)	wer)	SF	\$
	■ Fish ladder	verti	e (pool & weir, baffle, el cal slot) (length x width)	evator, rock-ramp,	SF	\$
	Outfall structure	• Туре	erial (concrete, rock, ea e (pipe, culvert, rock be (length x width)		SF	\$
	■ Piping	■ Mate ■ Dian ■ Leng		concrete)	LF	\$

Event Date	Event Type	PDA Date	County	Applicant	Ap	plicant Contact Name	Preparer's Name				
Category	Damaged Item		Cost Considerations			space to luantity (Units)	Total Estimated Cost				
	■ Service Road		rial type (i.e. paved, g ace area (length x widt			SF	\$				
	 Security Fence 	barb • Heig	 Material type (chain link, wood privacy, electric, barb wire) Height Length 			LF	\$				
	If building is visually > 50% damaged, estimate total building replacement										
	 Building 	Age Consetc.)	Building type (library, office, school, etc.) Age (historic structures) Construction type (concrete, masonry, timber, etc.) Size (SF) Number of floors			SF	\$				
	If building is visually < 50% damaged, assess damaged elements										
	Exterior Building Damage										
≣ – Buildings and	■ Roof	■ Perc	rial type (shingles, me ent damaged ing / roof area	tal, slate)		SF	\$				
Equipment	Siding, façade	15.00	Type (brick, aluminum, stucco, wood) Area (length x width)			SF	\$				
	- Windows	■ Size ■ Quar	(length x width) htity			SF	\$				
	u Doors		Size (length x width) Quantity			SF	\$				
	■ HVAC	Type Size Quar	(heating, A/C, ventilation, etc.) tity			EA	\$				
	Interior Building Damage										

Event Date	vent Date Event Type PDA I		County Applicant		t	Applicant Contact Name	Preparer's Name
Category	Damaged Ite	em	Cost Consider	ations		/orkspace to te Quantity (Units)	Total Estimated Cost
	■ Walls	gyps	naged layers (i.e. sheet sum) ace area (length x widt			SF	\$
	= Flooring		e (carpet, wood, tile) or area (length x width)		*	SF	\$
	Ceiling	■ Ceil	ing area (length x width)		SF	\$
	 Kitchen (cabinets, co 	ountertops) Mate				LF	\$
	 Bathroom (sinks, toile tub/showers) 	ets, Qua	ntity of each		EA		\$
	Lighting	■ Type ■ Qua				LS	\$
	■ Electrical	■ Area	a of building or length o	fwiring		LS	\$
	 Fire protection (sprint alarms) 	klers, Type	e of system ntity		A	LS	\$
	■ HVAC	Type Size				EA	\$
	Contents & Equipment						
	Contents	■ Qua ■ Spe	ntity cialty or high dollar item	as		LS	\$
	■ Vehicles	fire t	e of vehicles (passenge rucks, etc.) ber of vehicles	r cars, police cars,		- EA	\$
	■ Equipment (Medical,	Other) Type	e of equipment ntity			LS	\$
	 Animals, Birds, Fish, (juvenile specimens) 	Insects Qua	ntity			EA	\$
	Other			At Acres and the second second second	Kaarana -		\$

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Category	Damaged Item		Cost Considerat	ions	Workspace to Estimate Quantity (Units)	Total Estimated Cost
	Water Distribution / Wate	r and Wastewater T	reatment			
	 Utility building damage 	if su	eady included in Categor oplemental, include in Ca (length x width)	y E, do not include; tegory F	SF	\$
	■ Pumps	■ Qua	acity (GPM) ntity rs of operation		Hrs	\$
	Pipes	MateDianLeng		ncrete)	LF	\$
	 Generators 	Pow	ELICITATION AND ADMINISTRATION OF THE PARTY		EA	\$
	- Clarifier	Size Capa	acity		EA	\$
F – Utilities	 Water storage tank 	Size Capa	acity	47	EA	\$
	■ Water intake	■ Size ■ Capa			EA	\$
	- Chlorination system	■ Size ■ Capa			EA	\$
	■ Filters	Size Type Qual	1		EA	\$
	■ Controls, valves, SCAD	Δ	of facility nated cost of system		LS	\$
	Electrical conduit	Type			LF*	\$
	Power Lines					

Event Date	Event Date Event Type PI		County	Applicant	Applicant Contact Name	Preparer's Name
Category	Damaged Iter	n	Cost Consider	rations	Workspace to Estimate Quantity (Units)	Total Estimated Cost
	■ Poles	■ Mate			EA	\$
	- Conductors	insu	dition (hanging low, fall lator) ntity per pole neter	en, displaced from	EA	\$
	 Insulators 	■ Type ■ Qua	e ntity per pole		EA	\$
	 Transformers 		Size Quantity		EA	\$
	Service Road		erial type (i.e. paved, gr ı (length x width)	ravel, dirt)	SF	\$
	Other pole mounted ed	quipment Type			EA	
	Parks					
	- Lighting	■ Heig	ht ntity of bulbs per lamp		EA	\$
	 Equipment (i.e. scoreb bleachers, dugouts) 		pe mensions		LS	\$
G – Recreation, Other	■ Fence	■ Heig	Type (chain link, WPF) Height Length		LF	\$
	Picnic tables, permane	The same of the sa	Type Material Quantity		EA	\$
	Tennis court		t surface (length x width)		SF	\$

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Category	Damaged Iten	,	Cost Conside	rations	Workspace to Estimate Quantity (Units)	Total Estimated Cost		
	Structures (i.e. toilets, concessions)	if su	eady included in Cate pplemental, include in ı (length x width)	gory E, do not include; Category G	SF	\$		
	 Statues or signs 	■ Type ■ Qua		-3	EA	\$		
	Pools							
	■ Pool lining		erial (concrete, tile) (length x width)		SF	\$		
	■ Filtration system	» Туре			EA	\$		
	- Apron		erial (concrete, tile) (length x width)		SF	\$		
	Changing room	if su	eady included in Categoplemental, include in (length x width)	gory E, do not include; Category G	SF	\$		
	Equipment (i.e. bleach platform)	ers, diving Type Mate	erial		LS	\$		
	■ Fence	Type Heig			LF	\$		
	Golf Courses							
	 Irrigation system 	■ Size	ber of heads and type of pipe of grounds (SF)	pipe LS		\$		
	Golf cart path	grave	rial type surface and b el) (length x width)	ase (i.e. paved,	SF	\$		
	- Lights	Pole Light	wattage		LS	\$		

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Category	Damaged Item		Cost Considerations	E	Workspace to stimate Quantity (Units)	Total Estimated Cost
	■ Fence	Type Heigh			LF	\$
	Improved Beaches					
	■ Sand replacement	Eleva Quan Grain	tity (length x width x depth) size		СҮ	\$