Structure / Hazards Evaluation Form

FHAZ-1

Ву:

Where required, circle all the information or items that apply. NOTE: WINDS MAY CAUSE ADDITIONAL DAMAGE OTHER THAN NOTED. STRUCTURE DESCRIPTION: Date/Time of Eval: Bldg ID: Date/Time of Disaster: No. Stories: No. Basements: **MATERIALS:** TYPE OF COLLAPSE: **PC Concrete Wall Failure** Wood URM Soft 1st Floor Concrete Steel **Pancake Burn-out** Middle Story Overturn Tilt-Up CMU Walls Other - specify Other: FRAMING SYSTEM: LOCATION OF VOIDS: Shearwall **Moment Frame Braced Frame Between Floors Basement Shafts** Other: Other: OCCUPANCY: **DESCRIPTION OF UNSAFE AREAS & HAZARDS:** Fire Station Hospital Police Station **Emergency Operations Center** Office Building School Public Assembly Industrial Hotel Retail Store Apartment Other OTHER INFORMATION:

Structure / Hazards Evaluation Form	FHAZ-2	Ву:	
Where required, circle all the information or items that apply.	NOTE: WIND MAY CAUSE ADD	ITIONAL DAMAGE OTHER THAN NOTED.	
SKETCH:			
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Structure / Hazards Check List FHAZ-3 By: This is only a Check List. Check all Appropriate Structure Hazards STRUCTURE DESCRIPTION: TYPE OF COLLAPSE: Wall Fall Soft 1st Floor **Pancake** Bldg ID: Middle Story Overturn Torsion **Burn-out** Other No. Stories: No. Basements: Walk around Structure and CHECK: From a SAFE Distance, CHECK: Alignment of Structure's Corners & Faces I.D. URM Walls - Thick Bearing or Thin/non-bearing Alignment of Structure's Floors I.D. Tilt-up Walls - CIP Cols, Cast-on, Pre-cast Walls? **Burned-out Floors** Tilt-up Wall Connection to Footing- Pour strip, other? Type of Exterior Walls - Conc., URM, CMU, Tilt-up, Wood Extent of Burned-out Floors/Roof Condition of Exterior Walls - Openings, Wall Piers **Presence of Flowing Liquids Condition of Facing or Projecting Elements** I.D Areas of Structure to be avoided Presence of Precast Conc Facing or Brick/Stone Veneer I.D most PROBABLE Collapse or Fall Mode Presence of other FALLING HAZARDS I.D All Exterior FALLING HAZARDS Are Structural or other Plans Available? I.D All Ingress and Egress Locations Presence of Rootop Equipment, Towers, etc From Above Structure in Elevated Platform, CHECK: Presence of Distinctive Elements, Additions, Stairwells I.D Extent of Burn-out - Full Floor, Part Floor Types of Interior Walls, Chimneys, Flue Shafts, etc Any Alternate Energy Source - Generator, Solar Elec I.D.Condition of Floor/roof connections to Ext Walls Presence of Tanks w/Explosive/Corrosive Material If you choose to enter the Structure: NOTES 1. \*\* Suggestions for Visable Trail are: Light Sticks, Paint Arrows on floor, Electronic Relay Devices Make sure that at least one other Team Member remains outside and you maintain radio contact Notify Leader you are entering structure - Which Side Leave Easily Visable Trail as you explore interior \*\* **Check Each Closed Door for heat PRIOR to OPENING** Inspect Ground Floor Level Before moving Upward Check Main Columns and Shear Walls-Cracks, Spalling Check Beam to Column & to Exterior Wall Connections **Check Stair wells for Damage and Access** Determine extent of Floor/Roof Burn-out Determine extent of Floor/Roof Fire, Structural Damage I.D All Interior Collapse & Falling Hazards Locate Safe Havans and Escape Routes Report all Data to Outside Person before continuing Proceed Up/Down Only if Can Maintain Radio Contact Proceed to Upper Stories, Check each before Proceding

Proceed to Basement and Check Structure & Foundation

Struct. Haz. Mitigation I					Date:	
Where required, circle all the information or items the	nat apply. NOTE: A	AFTERSHOCKS MAY C	AUSE ADDITIONAL DAMA			
STRUCTURE DESCRIPTION:			MITIGATION MET	rracade A&B	<u>VIATIONS</u> Horiz. Tieback	н-тв
Bldg ID:			Remove Minimize Expe	Remo	Vert Tieback	V-TB Shid
No. Stories: No. B	asements:		Vertical Shore			
MATERIALS:			Horiz. Shore	H-Sho	Monitor	Mon
Wood Concrete Ste	eel URM Tilt-u	p PC Conc	Raker Shore	R-Sho	(GoTo Monitor Forr	n)
TYPE OF COLLAPSE:			Daigonal Brad	e DB	Other (specify)	,
Pancake Soft 1st Story Wall F	all Burn-out	O-turn	Heavy Equipn		(1 )/	
Other, specify:						
LIST OF POSSIBLE HAZARDS	<b>HAZ LOCATOR</b>	MIT METHOD	PRIORITY	TIME REQD	COMMENT	
	(Use Circled No. &	(Use abbrev.	(From 1 to 9, may			
FALLING HAZARD TYPE	locate on Sketch)	indicated above	be several of ea.)	reqd mitigation)		
Glass, Light Bldg Facing						
Bldg Contents, H'vy inc Safe						***************************************
Brick Veneer						*******************************
Rock Veneer Panels						
P.C. Panels						
HVAC Units						
Ducts, Elec Conduit						
Structure Element - Loose						
Str Elmt, Hanging & Attached	***************************************					
Other						
10041 0011 4505 1147155						
LOCAL COLLAPSE HAZARD						
Leaning Wall						
Damaged Column Damaged Floor						
Un-braced Column						
Punching Shear Potential						
Debris Overload-Floor						
ResQ Equip Overload				***************************************		***************************************
Rain & Clogged Roof Drains						
Damaged Retaining Wall	***************************************				***************************************	
Other						
0						
GLOBAL COLLAPSE HAZARD						
Leaning Building						
Multi Floor Collapse						***************************************
Multi Column Collapse						
Other						
SKETCH:						
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Struct Mit	tigation I	<u>.og - FMIT-Log</u>	By:		Sht	of		
STRUCTUR		Og - I MIT LOS	By: Sht of					
DATE	TIME	HAZARD LOCATOR	MIT METHOD	COMMENT				
Example mm / dd / yy			R-Shore					
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		-	-					

US&R Structure Monitoring Form - MON-1 B	itoring Form - MON-1 By: Date:				
Monitoring Began Monitoring Ende	d Sheet of				
STRUCTURE DESCRIPTION:	ATMOSPHERIC CONDITIONS Temperature °F				
Bldg ID:	Day Clear Calm Overcast				
No. Stories:No. Basements:	☐ Nite ☐ Cloudy ☐ Windy ☐ Gusty				
INSTRUMENT SETUP	REFERENCE (Control) POINTS - at least two				
Model/Serial No.	Name(s)				
Location	Locations				
Protection	Descriptions				
Description					
CVETCU OF MP4	MONITORING POINT #4/MP4)				
SKETCH OF MP1	MONITORING POINT #1(MP1) Location				
	Description				
<u>SKETCH OF MP2</u>	MONITORING POINT #2 (MP2) Location Description				
SKETCH OF MP3	MONITORING POINT #3 (MP3) Location				
	Description				
SKETCH OF SITE (show structure, instrument, RPs):					

DATE	TIME	REF (Control) POINT	MONITORING POINT	СОММЕНТ
Example				
mm / dd / yy	1000 Hrs	RP1-1 actual reading		Temp = 77F, establish control #1
	1000 Hrs	RP1-2 actual reading		Establish control #2
	1005 Hrs		MP1-1 initial reading	Establish monitoring point #1
	1015 Hrs		MP1-1 reading	No change from previous reading.
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US&R Struct. Monitoring Form - MON-	<u>1</u> By: Date:	<u></u>
Monitoring Began Monitoring Ende	d	
STRUCTURE DESCRIPTION: ATMOS	PHERIC CONDITIONS Temperature	SKETCH OF SITE (show structure, instrument, CPs):
Bldg ID:	Day Clear Calm Haze	
No. Stories: No. Basements:	Nite Cloudy Windy Gusty	
INSTRUMENT SETUP		<b>7</b> · · · · · · · · · · · · · · · · · · ·
Model/Serial No Calil	brated Yes / No Name	
	oordinates	
CONTROL POINTS - at least three (see CP-LOG)	IONITORING POINT # (MP )	<b>1</b> · · · · · · · · · · · · · · · · · · ·
	ocation	
Location	Description	
	LERT displacement =	
CONTROL POINTS - at least three (see CP-LOG) N	IONITORING POINT # (MP )	
	ocation	
	Description	
	LERT displacement =	
	LAKM displacment =	
CONTROL POINTS - at least three (see CP-LOG)	ONITORING POINT # (MP )	
Name L	ocation	
Location D	Pescription	
Description A	LERT displacement =	
	LARM displacment =	

US&R Struct. Monitoring Form - MON-	<u>-2</u> By:	Date:		Mon-2 Sht	of
Monitoring Began Monitoring En	ded				
ADDITIONAL INSTRUMENT SETUP LOCATIONS			SKETCH OF SITE (show structure, instrument, CPs):		
Location J	ob Name		<u> </u>		
Description IF	Coordinates				
CONTROL POINTS - at least three (see CP-LOG)	MONITORING POINT #	(MP)			
Name	Location				
Location	Description				
Description	ALERT displacement = ALARM displacment =				
CONTROL POINTS - at least three (see CP-LOG)	MONITORING POINT #	(MP )			
Name	Location_				
Location	Description				
Description	ALERT displacement = ALARM displacment =				
CONTROL POINTS - at least three (see CP-LOG)	MONITORING POINT #	(MP )			
Name	Location		<u> </u>		
Location	Description				
Description	ALERT displacement = ALARM displacment =				
CONTROL POINTS - at least three (see CP-LOG)	MONITORING POINT #	(MP)			
Name			_		
Location	Description		_		
Description	ALERT displacement =  ALARM displacment =		_		
	· ·		_		

US&R Struct. Monitoring Form - CP-LOG			Ву:	Date:	CP Sht of	
CONTROL POINT	READINGS*	TIME	IP Loc. Comments, notes, angles		SITE PLAN SKETCH	
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<sup>\*</sup> NOTE: Total Station record X, Y, Z coordinates. Theodolite record Horizontal (HA) and Vertical (VA) Angle.

US&R Struct. Monitoring Log - MON-LOG - MP #			ву:	Date:	MP	Snt				
	DEADWIGO:									
		READINGS*	·		IP					
POINT				TIME	Loc.	Comments, notes, angle		SKETCH		
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							1	 		
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<sup>\*</sup> NOTE: Total Station record X, Y, Z coordinates. Theodolite record Horizontal (HA) and Vertical (VA) Angle.

US&R	Suspended Personnel Platform Safety Check List -	SL-1	Ву <u>:</u>	Date:		
Follow O	SHA 29 CFR part 1926 CFR Crane or Derrick Suspended Person	nel Platfor	ms. HERS must be res	sponsible for Safety of the Operation		
Situati	on Name:	Crane Operator				
HERS	Name:	Crane (	Co. Supervisor			
RTM N		Platfori	m Capacity			
Task F		Time O	peration Start	Time Stop		
PRIC	OR to LIFT, CHECK THE FOLLOWING:		uct a pre-lift meetir	ng just prior to platform use		
	Crane has a functioning Two-Block Device		Crane Operator			
	Hoist Rope for Kinks		Signal person			
	Multiple Part Line shall not be twisted around each other		Persons to be Lifted			
	Hoisting shal be inspected if rope is slack to ensure all ropes are properly stated on drums and in sheaves		HERS responsible for	or planned operation		
	General Structural integrity, welds intact & no broken or	The F	Following will be di	scussed:		
	damaged parts		Inspections of Platfo	orm & Crane		
	Rating Plate in place and readable		Qualifications of Cra	ne Operator		
	Guardrail system intact & toe board in place		Time length of opera	ation		
	Primary attachment is centered in place		Types of Operations	to be performed		
	Safety pigtail line in place		Number of persons t	to be lifted		
	Connections made w/ rated shackles					
	Master link in place & thimbles on all eyes	Rules	s for Conducting Tr	rail Lift		
	Access gate operating properly and equipped with a restraining system to prevent accidental opening	This		ned just prior to lifting personnel. y the responsible Crane Co		
	Load in platform - tools, equipment & personnel are balanced and secure	The T		ated every time the Crane is is accessed		
	Hook to which platform is attached can be closed and locked			oof Tested at 125% of Rated n suspension for five minutes in k is to be performed		
	Fall protection system consisting of body belt/harness system with lanyard appropriately attached to lower load block, overhaul ball, or structural member capable of supporting the fall impact of all lifted personnel using the anchorage		Documentation of th Inspection, and Pre- by use of this Check	e Proof Test, Platform/Crane hoist Meeting shall be recorded List		
	No other lifts shall be done by crane while using platform		Test, time & weights			
	Before personnel enter or exit the platform, it shall be stabilized		nt of personnel & equ s to be performed			
	Hoisting shall be performed in a slow, controlled, and cautious manner					
	Crane shall be leveled within 1% of grade and shall be located on firm footing					
	Visual inspection of crane, rigging, personnel platform, and the crane support base shall be conducted by a competent person immediately after the trail lift to determine if the test has exposed any defects in any component or structure. Any defects that are found which create a safety hazard shall be corrected before hoisting personnel					