SAFETY INSPECTION CHECK LIST FOR CONSTRUCTION EQUIPMENT U.S. Army Corps of Engineers, Memphis District  Date of Ins					pection		
Cor	ntractor	Contract No					
Тур	e of Equipment & Boom Length	Make, Model No., Identification					
Inspected by (Signature)  Approved by (Signature)							
Act	vity / Equipment Inspected:  CRANES AND  NOT Rev for 96 v						
NOTE: Corps of Engineers General Safety Requirements (EM 385-1-1) references are shown in parentheses.					No	Not Appl	
1.	Is a list of the required clearance from overhead power lines poster shall have insulating cage guard and load line shall have insulating		oom				
2.	Are load rating plates posted in view of the operator? (16.C.02)						
3.	Is a list of standard hand signals posted in cab? (08.B.02)						
4.	Are shock absorbing boom stops installed on machine? (16.D.06)						
5.	Do stops control vertical motion of boom with gradually increasing limiting vertical rise to 88° above horizontal?	resistance from 83° or less (without impact	i) and				
6.	Do the boom angle, levelness, and other indicators operate accura	tely and within sight of operator? (16.D.04)	)				
7.	Does the unit have a suitable fir extinguisher (minimum rating of 5-B:C)? (16.A.26)						
8.	Are moving parts, gears, drums, shafts, belts adequately screened or guarded? (16.B.07)						
9.							
10.	Are steps, ladders, guard rails provided for safe footing and access? (16.B.03)						
	Can lubrication and greasing be done safely? (16.B.13)						
12.	. Is the cab equipped with unbroken safety glass? (16.B.10)						
	Is the fuel tank located so that overflow and spills will not run into cab or come into contact with exhaust? (16.B.04)						
	. Is the unit shut down for fueling, servicing, etc? (16.A.14)						
	Are slings and their fittings and fastenings, inspected daily by a qualified person and wire ropes inspected frequently by a competent person? (15.A.01 & 15.E.01)						
16.	When wedge socket type fasteners are used, has the dead end be	en made secure against loosening? (15.B.	04)				
	Have the air tanks been tested and certified? (20.A.02)	<u> </u>	,				
18.	Are test and inspection records kept available as a part of the offici	ial project file? (20.A.03)					
19.	Is there evidence of deformed, cracked, or corroded members in the	ne crane structure or boom? (16.C.12)					
20.	Do the drums have proper pawls or positive locking devices?	· · · · · · · · · · · · · · · · · · ·					
21.	Is sufficient cable available to allow three full wraps on the drum at	all working positions? (15.F.08)					
22.	Are daily inspections being made of all control mechanisms to assurproper operation? (16.C.07)	ure that there is no maladjustment interfering	ng with				
23.	Are inspections being made, at least monthly, of control mechanism contamination by lubricants or other foreign matter? (16.C.07)	ms for excessive wear of components, and					
24.	Are frequent (daily to monthly) inspections being made of all safety	devices?			_		
25.	Are daily inspections for deterioration or leakage in air or hydraulic	systems being made?					
26.	Are crane hook inspections being made frequently (daily to monthly normal hook throat opening has not increased more than 15%?	y) to assure that there are no cracks or tha	t the				
27.	Is there evidence of loose bolts or rivets?						
28.	Is there evidence of cracked or worn sheaves or drums? (15.F.09)						

29. Are parts such as pins, bearings, shafts, gears, rollers, and locking devices worn, cracked or distorted?

NOTE: Corps of Engineers General Safety Requirements (EM 385-1-1) references are shown in parentheses.  30. Is there evidence of excessive wear on brake and clutch system parts?  31. Is there evidence of excessively worn or damaged tires?							eses.	Yes	No	Not Appl
32. Is the power plant in good mechanical condition?										
33. Aı	e accessible area	s within the swir	ng radius of the	rear barricade?						
34. <u>C</u>	rane Stability Test	<u>:</u>								
Amount of counterweight: lb										
	Distance from Center Pin to	Tipping Load		Maximum Allowable  Moment_/ Load  R x / L = 0.75/						
Boom Angle	Load Line <u>R (ft</u> )	With <u>Outriggers</u>	Without Outriggers	With <u>Outriggers</u>	Without Outriggers	With <u>Outriggers</u>	Without <u>Outriggers</u>			
20°										
40°										
60°										
80°										
C.	TL = (1.25) * (L)					oom at the 80° po				