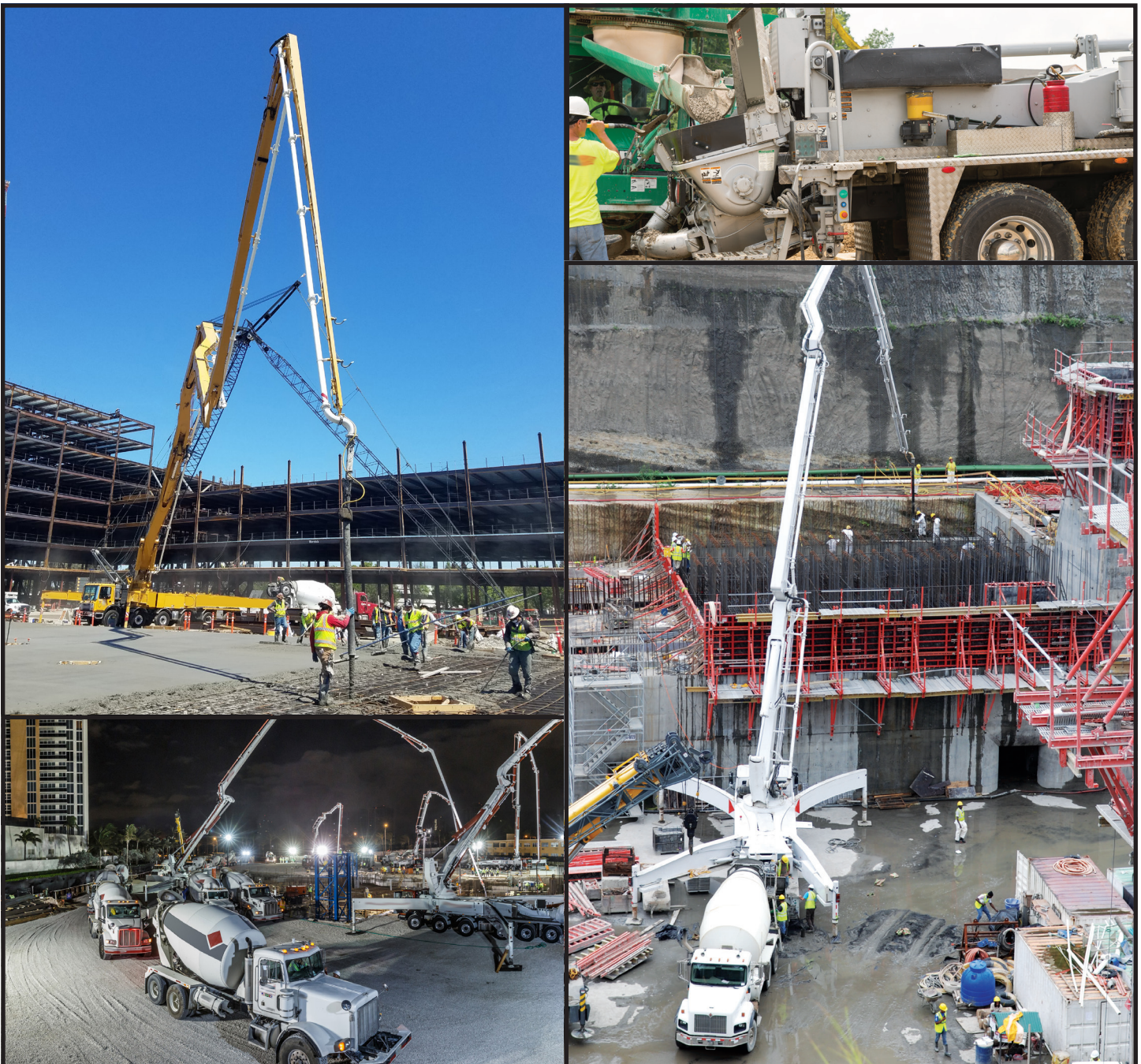
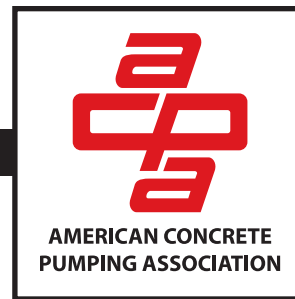




CHECKLIST FOR PUMPING READY MIXED CONCRETE©

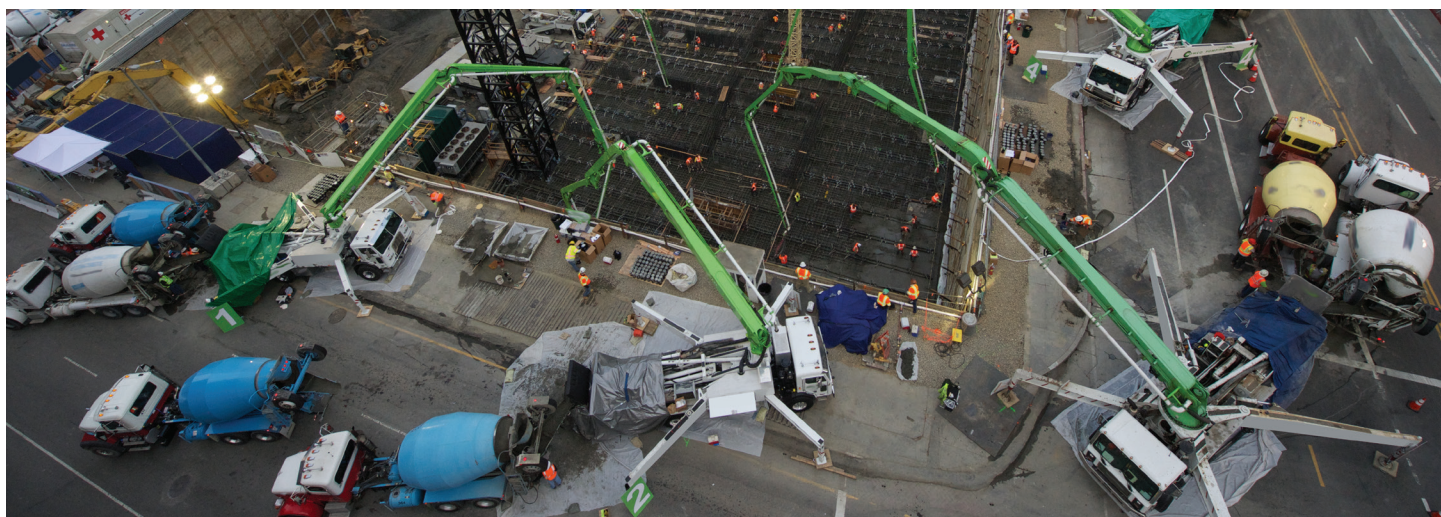




INTRODUCTION

This short Checklist for Pumping Concrete was developed by National Ready Mixed Concrete Association (NRMCA), American Society of Concrete Contractors (ASCC) and the American Concrete Pumping Association (ACPA). The intent is to identify details of the process of pumping concrete prior to the start of the placement so that all impacted parties are aware of the issues related to the construction specification, equipment and schedules, responsible persons and jobsite safety. The presumption is that on larger projects the concrete construction team has been through a pre-construction conference and has addressed the pertinent items in the **NRMCA/ASCC Checklist for Concrete Pre-Construction Conference** and those items are excluded from this document. This document can be used/included in a broader preconstruction conference agenda.

This Checklist is not intended to be all inclusive of the items that need to be considered and depending on a specific project many items regarding specification requirements, testing details, construction logistics and jobsite safety may need to be addressed in greater detail than outlined in this document. Many of these items will be critical to the success of the project and should be discussed and agreed upon prior to the placement of concrete with appropriate notification to the owner and his representative. More information on necessary safety considerations and practices for delivering ready mixed concrete to a concrete pump can found through NRMCA's Safety Series – Working Safely Around Concrete Pumps.

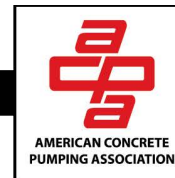


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NATIONAL READY MIXED CONCRETE ASSOCIATION
AMERICAN SOCIETY OF CONCRETE CONTRACTORS AND
AMERICAN CONCRETE PUMPING ASSOCIATION

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CHECKLIST FOR PUMPING READY MIXED CONCRETE

Project: _____

Location: _____

Directions: _____

1. Contacts

Who	Name	Phone	Mobile	E-Mail
C. Contractor				
RMC Producer				
Pump Contractor				
Plant Dispatch				
Jobsite Contact				

2. Pump Details

Model		Type		Size	
Pipeline dia., in.		Pipeline length, ft		Hose length, ft	
Reducer, in.		Reducer Shielded	<input type="checkbox"/> Y <input type="checkbox"/> N		
Outrigger width		Length		Unfold height	
Offset Distance to Outriggers				Ground Condition Support	<input type="checkbox"/> Y <input type="checkbox"/> N
E-stops functioning		<input type="checkbox"/> Y <input type="checkbox"/> N		Horn or other safety warning functioning	<input type="checkbox"/> Y <input type="checkbox"/> N
Primer Type		Primer Supplier:			
Hopper person	<input type="checkbox"/> Y <input type="checkbox"/> N	Name:			
Accessory					
Install Per Manf.	<input type="checkbox"/> Y <input type="checkbox"/> N	Fitted / Secured	<input type="checkbox"/> Y <input type="checkbox"/> N	Functioning	<input type="checkbox"/> Y <input type="checkbox"/> N

3. Site Conditions

Times:		Pump Setup:		AM / PM	RMC Delivery:		AM / PM
Placement of	<input type="checkbox"/> Slabs		<input type="checkbox"/> Walls		<input type="checkbox"/> Footings	<input type="checkbox"/>	
Volume, cy		Rate, cy/hr.		Pour time		Time / truck	
Recent Excavation	<input type="checkbox"/> Y <input type="checkbox"/> N		Underground Utilities	<input type="checkbox"/> Y <input type="checkbox"/> N			
Power Lines	<input type="checkbox"/> Y <input type="checkbox"/> N		Spotter	<input type="checkbox"/> Y <input type="checkbox"/> N	Name:		
Traffic Control	<input type="checkbox"/> Y <input type="checkbox"/> N		Radios / Ch	<input type="checkbox"/> Y <input type="checkbox"/> N			
Max Distance, ft.		Vertical		Horizontal			

4. Concrete Mixture

Strength, psi	28 days:		Other:			
Max Agg. Size		(no larger than 1/3 pipeline diameter)				
Water Reducer	<input type="checkbox"/> Y <input type="checkbox"/> N	Retarder	<input type="checkbox"/> Y <input type="checkbox"/> N	Accelerator	<input type="checkbox"/> Y <input type="checkbox"/> N	
Lightweight	<input type="checkbox"/> Y <input type="checkbox"/> N	Pre-soak agg	<input type="checkbox"/> Y <input type="checkbox"/> N	Density (UW), lb/cf		
Slump range, in.		Air range, %		<input type="checkbox"/> P of Placement	<input type="checkbox"/> P of Discharge	
Fibers	<input type="checkbox"/> Y <input type="checkbox"/> N	Type and Dosage, lb/cy				
Jobsite adjustments permitted:						
Water addition	<input type="checkbox"/> Y <input type="checkbox"/> N	Water limit indicated on ticket?		<input type="checkbox"/> Y <input type="checkbox"/> N		
Person authorized to request water:						
Test Samples	Frequency		<input type="checkbox"/> P of Discharge	<input type="checkbox"/> P of Placement	<input type="checkbox"/> Beside Pump	

5. Clean up

Chute rinse-off area provided	<input type="checkbox"/> Y <input type="checkbox"/> N	Location	
Water available	<input type="checkbox"/> Y <input type="checkbox"/> N	Truck mounted rinse-off provided	<input type="checkbox"/> Y <input type="checkbox"/> N
















**AMERICAN SOCIETY OF
CONCRETE CONTRACTORS**
Enhancing the Capabilities of Those Who Build with Concrete



**AMERICAN CONCRETE
PUMPING ASSOCIATION**

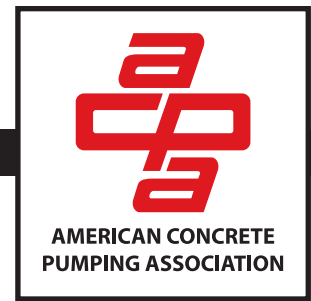
NOTES

Pump Hand Signals

							
1. START PUMP SPEED UP	2. SLOW PUMP DOWN	3. STOP PUMP	4. LITTLE BIT	5. RELIEVE PRESSURE (2 golpecitos) (2 taps)	6. ADD WATER 4-GALLONS	7. ALL DONE CLEAN UP	8. BOOM UP
1. PRENDER LA BOMBA ACELERAR	2. BAJAR VELOCIDAD A LA BOMBA	3. PARAR LA BOMBA	4. UN POCO	5. ALIVIAR LA PRESIÓN	6. AÑADIR AGUA 4-GALONES	7. TERMINADO LIMPIAR	8. PLUMA HACIA ARRIBA
							
9. BOOM DOWN	10. BOOM LEFT	11. BOOM RIGHT	12. OPEN OR EXTEND BOOM	13. CLOSE OR RETRACT BOOM	14. STOP BOOM	15. OK TO APPROACH HOSE	16. MOVE AWAY FROM THE HOSE
9. PLUMA HACIA ABAJO	10. PLUMA A LA IZQUIERDA	11. PLUMA A LA DERECHA	12. ABRIR O EXTENDER LA PLUMA	13. CERRAR O RETRAER LA PLUMA	14. PARAR LA PLUMA	15. PERMITIDO ACERCARSE A LA MANGUERA	16. ALEJESE DE LA MANGUERA

Concrete Mixer Hand Signals

		
ENTRAR DRIVE IN	ENTRAR EN RETROCESO BACK IN	RETROCEDER BACK UP
		
ADELANTAR PULL FORWARD	PARAR STOP	RAISE CHUTE LEVANTAR EL CONDUCTO LOWER CHUTE BAJAR EL CONDUCTO
		
COMENZAR ECHAR CONCRETO START POURING	MAS AGUA MORE WATER	PARAR ECHAR CONCRETO STOP POURING



NATIONAL READY MIXED CONCRETE ASSOCIATION

The National Ready Mixed Concrete Association is a trade association representing producers of ready mixed concrete and those companies that provide materials and support to the industry. The primary goal of NRMCA is to increase the safety, professionalism and success of the industry. NRMCA provides its members with education, training, product promotion assistance, information on research and technology and representation before Congress and regulatory bodies.



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NATIONAL READY MIXED CONCRETE ASSOCIATION

The American Society of Concrete Contractors is a non-profit organization dedicated to enhancing the capabilities of those who build with concrete. Members of ASCC are concrete contractors, material suppliers, equipment manufacturers, and others involved in concrete and decorative concrete construction. ASCC provides a unified voice in the concrete construction industry, and offers many services including: an extensive safety program, problem solving assistance, networking opportunities, and educational materials.



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NATIONAL READY MIXED CONCRETE ASSOCIATION

The American Concrete Pumping Association was founded in 1974 with the objectives to promote concrete pumping as the choice method of placing concrete, and to encourage and educate the concrete pumping industry on safe concrete pumping procedures. The ACPA Operator Certification Program is the only industry-recognized certification program for testing concrete pump operators on safe concrete pumping practices. Members of ACPA include owners of concrete pumps, manufacturers of concrete pumps, and distributors of concrete pumps and accessories.



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