Compression Machine Maintenance Worksheet

Equipment ID:		Date: _	
Manufacturer:		Performed by:	
Model #:		_	
Serial #:		Next Calibration Due:	
UofA ID:		Last Calibration:	
Location:		_	
Maintenance Item	Clean Head and lubricate Check fluid levels		
Maintenance Interval	Annually or as needed		

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Date	Clean Head	Check fluid levels	Initial:

Water Storage Tank Maintenance Worksheet

Equipment ID: Water Storage Tank	Date:	
Manufacturer:	Performed by:	
Model #:		
Serial #:	Next Calibration Due:	
UofA ID:	Last Calibration:	
Location: Concrete Lab Moist Room		

Maintenance Item Stir water in tank to replace calcium ions

Maintenance Interval: Once per month

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Date	Water Stirred	Performed by:
		
		
		
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	II .	
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Sulfur Capping Log

Equipment ID: Sulfur compound	Date:	
Manufacturer:	Performed by:	
Model #:		
Serial #:	_	
UofA ID:	_	
Location:		

Maintenance Item Verify Caps

For strengths < 7000 psi, caps can be no more than 1/4" thick (avg.), (5/16 indiv.) For strengths > 7000 psi, caps can be no more than 1/8" thick (avg.), (3/16 indiv.) Use calipers

			Cap Thickness (inches) 1 2 3 4 5 6 Average						
Date	Plane?	Voids?	1	2	3	4	5	6	Average
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2" cube test set

Equipment ID: <u>'2" cube test set</u>	Date:	
Manufacturer:	Performed by:	
Model #:		
Serial #:	Next Calibration Due:	
UofA ID:	Last Calibration:	
Location:		

Maintenance Item Check for tightness of parts

Calibration Procedure: Verify molds

Calibration Equipment: Steel bar, feeler gauges, calipers

Date	Mold parts	Planess of sides	Distance b/t sides	Height of Sides	Angle between adj. faces
	Tight Fit?	<0.002	2" ± 0.02	2 " (+0.01 to -0.015)	90 ± 0.5°
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Water Storage Tank Temperature Worksheet

Equipment ID: Water Storage Tank	Date:
Manufacturer:	Performed by:
Model #:	
Serial #:	
UofA ID:	
Location:	

Calibration Item: Maintenance of 23.0 ± 2 °C

Maintenance Item : Verify that correct temperature is being maintained in tank

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Date	Temperature	Verified by:
		
		
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Water Tank Temperature Recorder Calibration Worksheet

Equipment ID: Water Storage Tank	Date:	
Manufacturer:	Performed by:	
Model #:		
Serial #:	Next Calibration Due:	
UofA ID:	Last Calibration:	
Location:	_	

Calibration: Automatic control of 23.0 ± 2 °C

C. Procedure: Verify that temperature recorder is correct

Equipment: Nist Traceable Thermometer

Date	Recorder Temp.	NIST Thermometer	Verified by:

Capping Compound Calibration Worksheet

Equipment ID:	Date Received:	
Manufacturer:	Received By:	
Model #:	Amount in Order:	
Serial #:		
UofA ID:	Calibration Interval:	3 months
Location:		or before use

Calibration Item: Verify compressive strength of mortar

Calibration Procedure: ASTM C 617 - section 5

Calibration Equipment: cube mold, melting pot, capping compound, compression testing machine

	Com	pressive Strengt	h (psi)			
Date	Cube 1	Cube 2	Cube 3	Anticipated Cylinder Strength (psi)	Pass/Fail	Initial

Comments:		
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Capping Compound 8/28/2013

Alignment Device Calibration Worksheet

Equipment ID: Manufacturer: Model #:	Performed by:	
Serial #: UofA ID: Location:	Next Calibration Due: Last Calibration:	
Calibration Item: Verify the device dimensions		
Calibration Procedure: ASTM C 617 - 4.1		
Calibration Equipment: digital calipers, straightedge, feeler	gauges	
Verify the device dimensions:		
Thickness of plate:	Tolerance = at least 1/4"	
Depth of recessed area:	Tolerance = no more than 1/2"	
Diameter of plate:	Tolerance = at least 1" greater than	
	specimen diameter	
Is surface plane within 0.002 inches?		
Are alignment guides perpendicular		
within 0.5 degrees (1/8" in 12")?		
	Pass/Fail:	
Comments:		
	Initial By:	

Alignment Device 8/28/2013