## \*\*\*\*THIS IS A NEW APPENDIX. – PLEASE READ CAREFULLY.\*\*\*\*

## **CALIBRATION FORM #820020**

11 " " "									
Form 820020 7-91 lowa Departmen	nt of Transportation								
MOBILE MIXER	CALIBRATION								
Contractor/Owner Cramer + ASSOC. County	Blankhauk Date 7-18-06								
Mixer Serial No. 6MFD(0139 FT Operating Speed	100 CY/br Calibrated By Nonni CATHER								
Project No. 3240 - 057-2//8) 39-07 Design No	206 V Witnessed By Addition 11 mg								
MATERIALS AND SETTINGS									
Material , A Source	Sp. Gr. Dry Weight Wet Weight Gate Setting								
Cement Lafarae *Sand Kasic Muticali Water	3.14								
*Sand Hasic Matrials Water *Rock Merica Mericala Hildon	2.65 1393 1436 41								
Water									
Water Reducer  Air Entraining Agent  BITH ALF-G1 INTER 3063305									
* (Optional moisture content - Sand 3% Rock 0.5%)									
Copuona moista a coman - Sana 370 Nook 0,370)									
Determine CEMENT METER COUNT. Run: 50 count ± Model 60 Ma 100 count ± Standard un									
Trial 1 2 3	4 5 Totals								
Counts 25 25	5 25.5 25.0 126.0								
Gross Weight									
Net Weight									
Time (sec.)	97 11.00 10.18 54.62								
$\frac{\text{Total Pounds}}{\text{Total Count}} = \frac{(4/22)}{(1/26)} = \underline{3.35} \frac{\text{Lb.}}{\text{Meter Count}}$	$\frac{94 \text{ lb. cement}}{\text{Lb./Meter Count}} = \frac{94 \text{ lb.}}{(3.35)} = \frac{2806}{\text{Båg}} \frac{\text{Counts}}{\text{Båg}}$								
AIR ENTRAINING AGENT DILUTION RATE / + / Admixtures  Time per bag = (Counts/Bag) × Total seconds / Total counts = / Z . 16 Sec/Bag	Water Reducer  Dosage Required (oz./100 lbs. cement)  Dilution rate  Dilution Reg'd (total oz./100 lbs. cement)								
Sand weight 1 Bag = Wet weight 8.78 = 1/3/6 Bag Bag	$\frac{\text{Rock weight}}{\text{1 Bag}} = \frac{\text{Wet weight}}{8.78} = \frac{\cancel{1360}}{8.78} = \frac{\cancel{155.5}}{\text{Bag}} \frac{\text{Lb.}}{\text{Bag}}$								
Divide this by the Count/Bag from Step 1.	Divide this by the Count/Bag from Step 1.								
$\frac{(\cancel{B}.\cancel{b}) \text{ Lb./Bag}}{(2\%\cancel{c}) \text{ Count/Bag}} = \underline{583} \frac{\text{Lb.}}{\text{Count}}$	(155/5) Lb./Bag (2800) Count/Bag = 555 Lb. Count								
This is the target value.	This is the target value.								
The tolerance limits are:	The tolerance limits are:								
Upper = ( \$\&\ 5\) x 1.02 = \(\\$\\ 5\\ 7\\ 7\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	Upper = ( 5,55) x 1.02 = 5.66 Lower = ( 5,55) x 0.98 = 5.77								
The calibration check average is:	The calibration check average is:								
$\frac{\text{Sum of checks}}{\text{No. of checks}} = \frac{(17.4\%)}{(3)} = \frac{5.83}{\text{Count}} \frac{\text{Lb.}}{\text{Count}}$	Sum of checks No. of checks = (16.67) = 5.56 Lb. Count								
Trial 1 2 Check Check Check Check	Trial 1 2 Check Check Check Check								
Setting Counts 25 25 25	Setting Counts								
Gross weight	Gross weight								
Tare weight Net weight  145.5 145.5 145.5	Tare weight  Net weight  / 35.5 / 70.5 /38.5								
Time (sec.)	Time (sec.)								
Lb./Count 5.86 5.85 5.85	Lb./Count 5.53 5.60 5.54								

Form 820020 7-91			0.0		nt of Transp							
					R CALIBRA							
		County Operating Speed										
			Opi	erating Speed		Calibr	ated By					
Project No			Des	sign No		Witnes	ssed By					
	ii.			MATERIALS	AND SETTING	gs						
Material		Sour	ce		Sp. Gr.	Dry Weigh	ıt	Wet W	eight	Ga	ite Setting	
Cement					-							
*Sand	-							4				
*Rock Water	5			-						15		
Water Reducer	•				-					12		
Air Entraining Age	nt —									-		
* (Optional moistu		and 3% Rock	0.5%)	<del></del>						*		
131 100			10000	20 AND 1993A DOMES								
Determine CEMEN	IT METER CO	UNT. Run:		± Model 60 M ± Standard ur								
Trial	1		2	3		4		5		То	tals	
Counts												
Gross Weight										-		
Tare Weight			12									
Net Weight				-			_					
Time (sec.)	-						=					
Total Pounds	ř š		16			94 lh cement		04 lb			Counts	
Total Count =	( )	- =	Meter	Count		94 lb. cement Lb./Meter Coun	- = -	(	<u> </u>		Bag	
AIR ENTRAINING Admixtures Time per bag = (C			=	Sec./Bag	Dosag Diluti	Reducer ge Required (oz. on rate on Req'd (total c						
Sand weight = 1 Bag	Wet weight =	8.78	1	Lb. Bag	Rock w	eight = Wet w	veight 78	= -8.7	8 = .		Lb. Bag	
Divide this by the 0	Count/Bag from	n Step 1.			Divide t	his by the Count	t/Bag fre	om Step	1.			
1	) I h /Bag		l h			7 3.15	/Bag			l h		
(	) Count/Bag	=	Count		5-	( ) Lt	ount/Ba	_ = g		Count		
This is the ta	arget value.				т	his is the target	value.					
The tolerance limit	s are:				The tole	erance limits are:	ę.					
Upper = (	) x 1	.02 =	3		U	pper = (	) x	1.02 = _				
Lower = (		.98 =			107	ower = (	20 00 0	0.98 = _				
The calibration che	eck average is:				The cali	bration check a	verage i	s:				
Sum of chec	ks (	)	Lb	*	s	um of checks	(	Y		Lb		
No. of check	s = (	) ) )	Co	ount	N	um of checks o. of checks	= (	<u> </u>	= -	Co	unt	
Trial	1 2	Check Check	c Check	Check	Trial	_1	2	Check	Check	Check	Check	
Setting					Setting			-				
Counts					Counts							
Gross weight					Gross w	10000						
Tare weight					Tare we					-		
Net weight					Net weigh							
Time (sec.)			1	<del></del>	Time (se	ec.)						