



West Virginia Department of Transportation

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 01

Plant Name: ERM1.05.601 Hanson Ready Mix F-5 @ Winfield, WV

Last Inspection: 08/22/2022

Sticker Expires: 2/22/2023

Standard Deviation: 590.14

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000467 601.002.022 705 705
Concrete, Class DC

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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13 4500 1.565 3.365 735.31 5650.76 < 6725.38 < 6974.32

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000471 601.002.003 545 521.5
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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41 3000 1.5 3 612.69 4942.44 > 4838.07 = 23.5

DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000475 601.002.003 545 545
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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30 3000 1.501 3.008 733.68 5216 > 5206.91 = 0

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100842	601.002.003 Concrete, Class B		600	553
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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18	3000	1.533	3.175	791.08	6755	> 5511.68	= 47
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DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100852	601.002.013 Concrete, Class H		651	651
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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41	4000	1.5	3	456.26	4684.39	6264.63	5368.78
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

District: 01 Plant Name: ERM1.07.601 Hanson Ready Mix F-7 @ Charleston, WV

Last Inspection: 08/23/2022 Sticker Expires: 2/23/2023 Standard Deviation: 716.65 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000472	601.002.003 Concrete, Class B		545	545
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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10	3000	1.604	3.615	789.73	4266.73	< 4995	< 5854.87
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000476	601.002.003 Concrete, Class B		545	545
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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16	3000	1.543	3.233	876.33	4352.18	< 5701.88	< 5833.17
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 01 Plant Name: MRM2.01.601 The Wells Group LLC - Madison Plant @ Madiso
 Last Inspection: 09/02/2022 Sticker Expires: 3/2/2023 Standard Deviation: 564.20 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100204 601.002.003 [REDACTED] 564 564
 Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor ($K1$)	Factor ($K2$)	Standard Deviation (s)	Average Strength(X)	(F_c+K2s)	$X-(F_c+K2s)/200$
37	3000	1.5	3	572.56	4721.08	> 4717.68	= 0
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

District: 01 Plant Name: MRM3.01.601 The Wells Group, Winfield WV
 Last Inspection: 10/26/2022 Sticker Expires: 4/26/2023 Standard Deviation: 738.57 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2200135 601.002.003 [REDACTED] 564 564
 Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor ($K1$)	Factor ($K2$)	Standard Deviation (s)	(F_c+K1s)	Average Strength(X)	(F_c+K2s)
33	3000	1.5	3	834.84	4252.26	< 4575.76	< 5504.52
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 01

Plant Name: RRM1.01.601 The Wells Group, LLC @ Winfield, WV

Last Inspection: 10/26/2022

Sticker Expires: 4/26/2023

Standard Deviation: 583.77

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Less than 2 inches

1458929	601.002.003 Concrete, Class B	08/09/2022	543	543
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Data Slump Greater than or equal to 2 inches

1458929	601.002.003 Concrete, Class B	08/09/2022	543	519.5
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----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
12	3000	1.576	3.429	864.71	4362.78	< 5144.17	< 5965.09
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
24	3000	1.513	3.067	449.94	4641.67	> 4379.97	= 23.5
DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26							

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2002600	601.002.003 Concrete, Class B		546	546
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----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
26	3000	1.508	3.044	686.54	4035.3	< 4422.31	< 5089.83
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2002602	601.002.015 Concrete, Class K		635	635
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----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
13	4000	1.565	3.365	600.44	4939.69	< 5414.62	< 6020.48
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 01

Plant Name: VBC1.03.601 The Wells Group @ Robertsburg

Last Inspection: 12/20/2022

Sticker Expires: 6/20/2023

Standard Deviation: 358.15

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100207	601.002.003 Concrete, Class B		564	517
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor ($K1$)	Factor ($K2$)	Standard Deviation (s)	Average Strength(X)	(F_c+K2s)	$X-(F_c+K2s)/200$
19	3000	1.528	3.151	400.09	4682.11	> 4260.68	= 47
DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26							



West Virginia Department of Transportation

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 02

Plant Name: ATA1.01.601 Adams Trucking And Supply @ Barboursville, W

Last Inspection: 08/18/2022

Sticker Expires: 2/18/2023

Standard Deviation: 700.80

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Less than 2 inches

1465018	601.002.015 Concrete, Class K		639	592
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Data Slump Greater than or equal to 2 inches

1465018	601.002.015 Concrete, Class K		639	639
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----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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41 4000 1.5 3 497.65 6130.24 > 5492.95 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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50 4000 1.5 3 697.1 5045.65 < 5822.4 < 6091.3

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Less than 2 inches

1465064	601.002.003 Concrete, Class B	12/03/2022	545	498
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Data Slump Greater than or equal to 2 inches

1465064	601.002.003 Concrete, Class B	12/03/2022	545	498
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----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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10 3000 1.604 3.615 527.76 5292.5 > 4907.85 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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95 3000 1.5 3 645.82 5240.47 > 4937.46 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1465065	601.002.013 Concrete, Class H	08/07/2022	636	636
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor ($K1$)	Factor ($K2$)	Standard Deviation (s)	(F_c+K1s)	Average Strength(X)	(F_c+K2s)
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16	4000	1.543	3.233	1140.51	5759.81	6782.19	7687.27
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000414	601.002.022 Concrete, Class DC		674	674
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor ($K1$)	Factor ($K2$)	Standard Deviation (s)	(F_c+K1s)	Average Strength(X)	(F_c+K2s)
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18	4500	1.533	3.175	716.49	5598.38	< 6682.78	< 6774.86
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 02

Plant Name: ERM1.08.601 Hanson Ready Mix F-8 @ Huntington, WV

Last Inspection: 11/14/2022

Sticker Expires: 5/14/2023

Standard Deviation: 621.51

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000473	601.002.003 Concrete, Class B		545	545
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
10	3000	1.604	3.615	831.97	4334.48	< 5089.5	< 6007.57
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000477	601.002.003 Concrete, Class B		545	545
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
17	3000	1.538	3.202	806.26	4240.03	< 5351.18	< 5581.64
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Less than 2 inches

2002579	601.002.015 Concrete, Class K		639	592
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
12	4000	1.576	3.429	377.83	7102.08	> 5295.58	= 47
DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26							

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2002588	601.002.013 Concrete, Class H		643	643
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
15	4000	1.549	3.27	655.51	5015.38	7511	6143.52
MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H							

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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----- Evaluation of Cement Requirements ----->

Data Slump Greater than or equal to 2 inches

2003495	601.002.004		639	639
	Concrete, Class B Modified			

Pieces of Data	Design Strength(F_c)	Factor ($K1$)	Factor ($K2$)	Standard Deviation (s)	(F_c+K1s)	Average Strength(X)	(F_c+K2s)
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12	4000	1.576	3.429	533.41	4840.65	< 5341.67	< 5829.06
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							
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PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 02

Plant Name: LCC1.01.601 The Wells Group F-1 @ Logan, WV

Last Inspection: 08/31/2022

Sticker Expires: 2/28/2023

Standard Deviation: 644.52

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1461810	601.002.003 Concrete, Class B	05/21/2021	545	545
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
16	3000	1.543	3.233	746.27	4151.49	< 4333.12	< 5412.69

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100203	601.002.003 Concrete, Class B		564	564
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
26	3000	1.508	3.044	512.81	4591.92	> 4560.99	= 0

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100381	601.002.015 Concrete, Class K		658	658
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
12	4000	1.576	3.429	640.24	5009.02	< 5662.92	< 6195.38

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100395	601.002.022 Concrete, Class DC		705	705
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
26	4500	1.508	3.044	860.81	5798.1	< 6729.04	< 7120.31

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 02

Plant Name: TWG1.03.601 The Wells Group F-3 @ Wayne, WV

Last Inspection: 11/16/2022

Sticker Expires: 5/16/2023

Standard Deviation: 552.01

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100167	601.002.003 Concrete, Class B		564	564
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor (K_1)	Factor (K_2)	Standard Deviation (s)	(F_c+K_1s)	Average Strength(X)	(F_c+K_2s)
10	3000	1.604	3.615	714.59	4146.2	< 4998.5	< 5583.24

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100205	601.002.003 Concrete, Class B		564	540.5
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor (K_1)	Factor (K_2)	Standard Deviation (s)	Average Strength(X)	(F_c+K_2s)	$X - (F_c+K_2s)/200$
12	3000	1.576	3.429	466.42	4746.67	> 4599.35	= 23.5

DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26



West Virginia Department of Transportation

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 03 Plant Name: CCC1.01.601 The Wells Group F1 @ Ravenswood, WV

Last Inspection: 07/11/2022 Sticker Expires: 1/11/2023 Standard Deviation: 434.84 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100403 601.002.003 564 564
Concrete, Class B

----- Evaluation of Cement Requirements -----

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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60 3000 1.5 3 532.94 3799.41 < 4220.33 < 4598.82

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100421 601.002.013 632 632
Concrete, Class H

----- Evaluation of Cement Requirements -----

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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16 4000 1.543 3.233 301.56 4465.31 6437.5 4974.94

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

District: 03 Plant Name: CCC1.02.601 The Wells Group F2 @ Parkersburg, WV

Last Inspection: 09/07/2022 Sticker Expires: 3/7/2023 Standard Deviation: 561.98 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100404 601.002.003 564 564
Concrete, Class B

----- Evaluation of Cement Requirements -----

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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40 3000 1.5 3 615.67 3923.5 < 4031 < 4847.01

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 03

Plant Name: SCC1.02.601 Smith Concrete F-2 @ Reno, OH

Last Inspection: 03/18/2022

Sticker Expires: 9/18/2022

Standard Deviation: 820.28

Rating: B

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463290	601.002.003 Concrete, Class B		564	564
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor ($K1$)	Factor ($K2$)	Standard Deviation (s)	(F_c+K1s)	Average Strength(X)	(F_c+K2s)
12	3000	1.576	3.429	982.67	4548.69	< 5055.83	< 6369.58
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							



West Virginia Department of Transportation

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 04

Plant Name: CCC1.03.601 The Wells Group F3 @ Bridgeport, WV

Last Inspection: 07/14/2022

Sticker Expires: 1/14/2023

Standard Deviation: 595.15

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100409	601.002.003 Concrete, Class B		564	564
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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32 3000 1.5 3 577.07 4806.47 > 4731.21 = 0

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100410	501.002.001 Concrete, Pavement		564	564
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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16 3000 1.543 3.233 681.12 4050.97 < 5057.81 < 5202.06

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100411	601.002.015 Concrete, Class K		658	681.5
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K1s)	(Fc+K1s)-X/200
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16 4000 1.543 3.233 494.02 4620.62 < 4762.27 = 23.5

INCREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2200178	601.002.014		632	632
Concrete, Class H Modified				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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11	4000	1.588	3.51	691.44	5098.01	< 5900.91	< 6426.95
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

District: 04

Plant Name: CSC1.01.601 Central Supply F-1 @ Saltwell, WV

Last Inspection: 09/01/2022

Sticker Expires: 3/1/2023

Standard Deviation: 646.88

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1434199	601.002.003		545	545
Concrete, Class B				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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35	3000	1.5	3	672.62	4008.93	< 4792.66	< 5017.86
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1455036	601.002.022		671	671
Concrete, Class DC				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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18	4500	1.533	3.175	711.15	5590.19	< 6003.5	< 6757.9
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 04 Plant Name: CSC1.02.601 Central Supply F-2 @ Westover, WV
 Last Inspection: 09/01/2022 Sticker Expires: 3/1/2023 Standard Deviation: 749.38 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1434193	601.002.003		545	545
	Concrete, Class B			

----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
34	3000	1.5	3	764.47	4146.7	< 4786.18	< 5293.41
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Less than 2 inches

1436404	601.002.015		636	636
	Concrete, Class K			

----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
10	4000	1.604	3.615	608.87	6235	> 6201.07	= 0
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

Data Slump Greater than or equal to 2 inches

1436404	601.002.015		636	636
	Concrete, Class K			

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
11	4000	1.588	3.51	1076.72	5709.83	< 5746.36	< 7779.29
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

District: 04 Plant Name: RDR1.01.601 R.D.R. Energy Resources
 Last Inspection: 11/01/2022 Sticker Expires: 5/1/2023 Standard Deviation: 577.54 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100211	601.002.003		550	550
	Concrete, Class B			

----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
97	3000	1.5	3	652.63	3978.94	< 4554.6	< 4957.89
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 04

Plant Name: SAC1.01.601 Stone & Company @ Morgantown, WV

Last Inspection: 01/04/2023

Sticker Expires: 7/4/2023

Standard Deviation: 720.18

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100405	601.002.003 Concrete, Class B		564	564
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor (K_1)	Factor (K_2)	Standard Deviation (s)	(F_c+K_1s)	Average Strength(X)	(F_c+K_2s)
89	3000	1.5	3	718.91	4078.36	< 4928.65	< 5156.73
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							



West Virginia Department of Transportation

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 05

Plant Name: FCC1.05.601 Allegany Concrete F-5 W Short Gap WV (Transit

Last Inspection: 10/03/2022

Sticker Expires: 4/3/2023

Standard Deviation: 689.22

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1461807 601.002.003 545 521.5
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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17 3000 1.538 3.202 838.59 5962.76 > 5685.17 = 23.5

DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463284 601.002.013 645 645
Concrete, Class H

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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15 4000 1.549 3.27 652.7 5011.03 8102.73 6134.33

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 05

Plant Name: TBH1.01.601 Thomas, Bennet & Hunter, Inc @ Martinsburg, W

Last Inspection: 09/12/2022

Sticker Expires: 3/12/2023

Standard Deviation: 815.01

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000432 601.002.003 **06/23/2022** 563 516
Concrete, Class B

Data Slump Greater than or equal to 2 inches

2000432 601.002.003 **06/23/2022** 563 516
Concrete, Class B

----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor (K_1)	Factor (K_2)	Standard Deviation (s)	Average Strength(X)	(F_c+K_2s)	$X-(F_c+K_2s)/200$
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20 3000 1.525 3.13 688.8 6433.3 > 5155.94 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Pieces of Data	Design Strength(F_c)	Factor (K_1)	Factor (K_2)	Standard Deviation (s)	Average Strength(X)	(F_c+K_2s)	$X-(F_c+K_2s)/200$
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20 3000 1.525 3.13 688.8 6433.3 > 5155.94 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26



West Virginia Department of Transportation

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 06 Plant Name: ERM1.04.601 Hanson Ready Mix F-4 @ McMechen WV

Last Inspection: 11/10/2022 Sticker Expires: 5/10/2023 Standard Deviation: 594.35 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000444	601.002.003 Concrete, Class B		564	564
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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12 3000 1.576 3.429 680.39 4072.29 < 5021.67 < 5333.06

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100549	601.002.003 Concrete, Class B		545	545
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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13 3000 1.565 3.365 573.04 3896.81 < 4095.38 < 4928.28

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 06

Plant Name: SSC1.03.601 Smith Concrete F-3 @ Tiltonsville OH

Last Inspection: 09/14/2022

Sticker Expires: 3/14/2023

Standard Deviation: 677.26

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463329 601.002.003 564 564
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor (K_1)	Factor (K_2)	Standard Deviation (s)	(F_c+K_1s)	Average Strength(X)	(F_c+K_2s)
29	3000	1.503	3.016	1029.81	4547.8	< 5446.55	< 6105.91
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463337 601.002.006 650 650
Concrete, Class B Mass, Modified

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor (K_1)	Factor (K_2)	Standard Deviation (s)	(F_c+K_1s)	Average Strength(X)	(F_c+K_2s)
12	5000	1.576	3.429	420.77	5663.13	< 6178.33	< 6442.82
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 06

Plant Name: SWC1.01.601 Swank @ Tridelphia, WV

Last Inspection: 08/16/2022

Sticker Expires: 2/16/2023

Standard Deviation: 723.84

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000422	601.002.003 Concrete, Class B		564	587.5
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----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K1s)	(Fc+K1s)-X/200
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25 3000 1.511 3.055 590.8 3843.2 < 3892.7 = 23.5

INCREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Less than 2 inches

2000438	601.002.015 Concrete, Class K		658	658
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----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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34 4000 1.5 3 768.53 5152.8 < 6088.82 < 6305.59

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Data Slump Greater than or equal to 2 inches

2000438	601.002.015 Concrete, Class K		658	728.5
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K1s)	(Fc+K1s)-X/200
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10 4000 1.604 3.615 735.94 4767 < 5180.45 = 70.5

INCREASE CEMENT FACTOR BY 70.5 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000446	601.002.003 Concrete, Class B		564	540.5
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----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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48 3000 1.5 3 720.02 5451.04 > 5160.06 = 23.5

DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2003474	601.002.013 Concrete, Class H		648	648
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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29	4000	1.503	3.016	762.92	5146.67	6676.28	6300.97
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2003477	601.002.014 Concrete, Class H Modified		648	601
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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35	4000	1.5	3	517.84	7218.29	> 5553.52	= 47
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DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2003480	601.002.006 Concrete, Class B Mass, Modified		610	563
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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35	4000	1.5	3	441.06	6115.14	> 5323.18	= 47
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DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100848	501.002.002 Concrete, Pavement HES		803	756
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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14	3000	1.557	3.313	583.42	6752.86	> 4932.87	= 47
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DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 06 Plant Name: WIC1.01.601 Weirton Ice & Coal @ Weirton, WV
 Last Inspection: 10/07/2022 Sticker Expires: 4/7/2023 Standard Deviation: 702.56 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1461858 601.002.015 658 611
 Concrete, Class K

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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11 4000 1.588 3.51 788.71 7180.91 > 6768.37 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463244 601.002.003 564 517
 Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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22 3000 1.518 3.096 497.41 5816.82 > 4539.98 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100210 601.002.004 658 658
 Concrete, Class B Modified

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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25 4500 1.511 3.055 798.59 5706.67 < 6839.2 < 6939.69

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26



West Virginia Department of Transportation

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 07 **Plant Name:** ACX1.01.601 Central Supply F-8 @ Buckhannon
Last Inspection: 09/01/2022 **Sticker Expires:** 3/1/2023 **Standard Deviation:** 782.89 **Rating:** A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1434200 601.002.003 545 545
 Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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13 3000 1.565 3.365 714.52 4118.22 < 5136.92 < 5404.36

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

District: 07 **Plant Name:** CSC1.04.601 Central Supply F-4 @ Gassaway, WV
Last Inspection: 08/29/2022 **Sticker Expires:** 2/28/2023 **Standard Deviation:** 622.11 **Rating:** A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1434202 601.002.003 545 545
 Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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46 3000 1.5 3 600.89 3901.34 < 4638.48 < 4802.67

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1436446 601.002.013 628 628
 Concrete, Class H

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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12 4000 1.576 3.429 576.53 4908.61 7066.67 5976.92

MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H



West Virginia Department of Transportation

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 08

Plant Name: CSC1.03.601 Central Supply F-3 @ Elkins, WV

Last Inspection: 08/30/2022

Sticker Expires: 2/28/2023

Standard Deviation: 610.06

Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1434201	601.002.003 Concrete, Class B		545	521.5
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----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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11 3000 1.588 3.51 549.86 5047.27 > 4930.01 = 23.5

DECREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Less than 2 inches

1436389	601.002.015 Concrete, Class K		636	589
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----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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27 4000 1.507 3.034 640.01 6244.07 > 5941.79 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Data Slump Greater than or equal to 2 inches

1436389	601.002.015 Concrete, Class K		636	636
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Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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29 4000 1.503 3.016 700.1 5052.25 < 5707.59 < 6111.5

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1436443	601.002.013 Concrete, Class H		628	628
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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13	4000	1.565	3.365	526.35	4823.74	6668.46	5771.17
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1459834	601.002.004 Concrete, Class B Modified		636	636
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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28	4000	1.505	3.024	631.18	4949.93	< 5903.57	< 5908.69
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

District: 08 Plant Name: CSC1.16.601 Central Supply F-16 @ Parsons, WV

Last Inspection: 08/30/2022 Sticker Expires: 2/28/2023 Standard Deviation: 549.04 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1461837	601.002.004 Concrete, Class B Modified		636	636
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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11	4000	1.588	3.51	609.37	4967.68	< 5491.82	< 6138.89
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1465021	601.002.013 Concrete, Class H		345	345
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<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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21	4000	1.521	3.112	463	4704.22	6424.76	5440.86
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 08

Plant Name: FCC1.06.601 Fairfax Materials @ Parsons, WV

Last Inspection: 08/22/2022

Sticker Expires: 2/22/2023

Standard Deviation: 430.07

Rating: A-2

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2100840	601.002.004		555	555
Concrete, Class B Modified				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor (K_1)	Factor (K_2)	Standard Deviation (s)	(F_c+K_1s)	Average Strength(X)	(F_c+K_2s)
26	4000	1.508	3.044	475.56	4717.14	< 4812.69	< 5447.6

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2200183	601.002.004		564	587.5
Concrete, Class B Modified				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(F_c)	Factor (K_1)	Factor (K_2)	Standard Deviation (s)	Average Strength(X)	(F_c+K_1s)	(F_c+K_1s)- $X/200$
14	4000	1.557	3.313	317.62	4299.29	< 4494.53	= 23.5

INCREASE CEMENT FACTOR BY 23.5 PER SECTION 3.3 OF MP 711.03.26



West Virginia Department of Transportation

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 09 Plant Name: BMC1.05.601 Central Supply F-13 @ Alta, WV

Last Inspection: 11/07/2022 Sticker Expires: 5/7/2023 Standard Deviation: 670.86 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1434221 601.002.003 543 496
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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31 3000 1.5 3 789.77 6157.1 > 5369.31 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463335 601.002.003 04/30/2022 545 545
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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36 3000 1.5 3 812.21 4218.32 < 5060 < 5436.63

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2200103 601.002.003 564 517
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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16 3000 1.543 3.233 427.33 5455.62 > 4381.56 = 47

DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26



West Virginia Department of Transportation

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 10 Plant Name: BMC1.03.601 Central Supply F-11 @ Princeton, WV

Last Inspection: 11/07/2022 Sticker Expires: 5/7/2023 Standard Deviation: 630.72 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1432575 601.002.003 **06/06/2022** 543 543
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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11 3000 1.588 3.51 812.71 4290.58 < 4877.27 < 5852.61

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1434168 601.002.015 **10/23/2022** 632 632
Concrete, Class K

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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13 4000 1.565 3.365 595.52 4931.99 < 5159.23 < 6003.92

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463301 601.002.003 545 545
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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10 3000 1.604 3.615 688.37 4104.15 < 4524 < 5488.46

MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2200142	601.002.003		564	517
Concrete, Class B				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	Average Strength(X)	(Fc+K2s)	X-(Fc+K2s)/200
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10	3000	1.604	3.615	289.53	4776	> 4046.65	= 47
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DECREASE CEMENT FACTOR BY 47 PER SECTION 3.3 OF MP 711.03.26

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2200156	601.002.013		632	632
Concrete, Class H				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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21	4000	1.521	3.112	997.61	5517.36	7287.14	7104.56
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MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H

District: 10 Plant Name: DHC1.02.601 Central Supply @ Mabscott, WV

Last Inspection: 11/09/2022 Sticker Expires: 5/9/2023 Standard Deviation: 489.60 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463299	601.002.003		545	545
Concrete, Class B				

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
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11	3000	1.588	3.51	560.07	3889.39	< 4017.27	< 4965.85
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MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 10

Plant Name: EC11.01.601 Eastern Concrete Pinville WV

Last Inspection: 04/26/2022

Sticker Expires: 10/26/2022

Standard Deviation: 580.55

Rating: B

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463326 601.002.015 639 639
Concrete, Class K

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
11	4000	1.588	3.51	575.96	4914.62	< 5254.55	< 6021.62
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1463328 601.002.013 631 631
Concrete, Class H

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
25	4000	1.511	3.055	680.9	5028.84	5385.2	6080.15
MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H							

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

1465023 601.002.003 564 564
Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
23	3000	1.515	3.081	707.5	4071.86	< 4755.65	< 5179.81
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

PCC Plant Evaluation with Cement Factors

Effective Date: 1/5/2023

District: 10 Plant Name: ECI1.02.601 Eastern Concrete, Beckley, WV
 Last Inspection: 03/16/2022 Sticker Expires: 9/16/2022 Standard Deviation: 859.91 Rating: B

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2002623 601.002.003 [REDACTED] 564 564
 Concrete, Class B

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
22	3000	1.518	3.096	906.26	4375.7	< 5213.18	< 5805.78
MAINTAIN CURRENT CEMENT FACTOR, PER SECTION 3.3 OF MP 711.03.26							

District: 10 Plant Name: JRM1.01.601 Jowar Ready Mix @ laeger, WV
 Last Inspection: 09/19/2022 Sticker Expires: 3/19/2023 Standard Deviation: 365.84 Rating: A-1

Mix Design Number	Material Code / Class of Mix	Expired Date	Approved Cement Factor	Adjusted Cement Factor
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Data Slump Greater than or equal to 2 inches

2000463 601.002.013 [REDACTED] 632 632
 Concrete, Class H

<----- Evaluation of Cement Requirements ----->

Pieces of Data	Design Strength(Fc)	Factor (K1)	Factor (K2)	Standard Deviation (s)	(Fc+K1s)	Average Strength(X)	(Fc+K2s)
12	4000	1.576	3.429	359.6	4566.73	5772.5	5233.07
MAINTAIN CURRENT CEMENT FACTOR, CONCRETE, CLASS H							