

Perry, Jack Y.

From: Stevenson, Grant D [grant.stevenson@xcelenergy.com]
Sent: Monday, September 29, 2003 5:03 PM
To: Perry, Jack Y.
Cc: Callahan, David G; Price, Sharon M
Subject: Red Rock sub start-of-work evidence

Jack-

There are several possible documents that can demonstrate that we started construction on the Red Rock substation portion of the SE Metro Project before 8/1/2001.

- Crew timesheets.
- Project cost tracking reports for the period in question.
- Concrete testing reports. Whenever Xcel builds foundations, we cast test pieces and have them analyzed by an outside testing firm. The test demonstrates that the foundation meets Xcel's minimum strength requirements. The test reports from the February 2000 construction of foundations at Red Rock is attached electronically to this memo. The one electronic file contains 9 pages of test reports.

The Red Rock sub needed additional equipment installed in order to add the second circuit between Red Rock sub and Rogers Lake sub. The first phase of the Red Rock work was to install foundations for substation equipment. This work was started and completed in 2000.

Grant Stevenson

Project Manager, Transmission
Xcel Energy
612-330-6330 voice
612-573-9080 fax
612-751-0520 cell phone

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EXHIBIT 31

9/30/2003



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Handwritten initials: JES and DH

REPORT OF COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS - ASTM:C39

PROJECT:
RED ROCK SUBSTATION
ST. PAUL, MN
NSP#E-98FH03

REPORTED TO:
NSP (2)
414 NICOLLET MALL
MINNEAPOLIS, MN 55401

ATTN: JEFF LUND
CC: ULTEIG ENGINEERS

AET JOB NO: 02-01909

DATE: March 14, 2000

Set No: 1 A - C
Date Cast: 2/14/00
Mix No: 802
Placement Information
Cast By: Pat Case
Placement Method: Truck Discharge
Placement Location: Pier 501, 502, 503

Plastic Properties
Slump, in: (ASTM:C143) 4.0
Air Content, %: (ASTM:C231) 5.8
Concrete Temp. (F°): (ASTM:C1064)
Concrete Supplied By: AVR
Truck No: PX01061
Date Received in Laboratory: 2/16/00

Cylinder No.	1A	1B	1C
Cylinder Information			
Height (in.):	12.00	12.00	12.00
Diameter (in.):	6.00	6.00	6.00
Cross-sectional area (sq. in.):	28.27	28.27	28.27
Cylinder condition/preparation:			
Curing Information			
Test date:	2/21/00	2/28/00	3/13/00
Days on site:	2	2	2
Days in curing:	5	12	26
Age at testing (days):	7	14	28
Test Information			
Load at failure (lbs.):	103,150	121,450	149,610
Strength at failure (PSI):	3,650	4,300	5,290
Specified strength (PSI at 28 days):	4,000	4,000	4,000
Type of failure:	Cone	Cone	Cone
Conformance: The 28-day test result meets the required design strength.			

Reported by:

Handwritten signature of David G. Wirth

David G. Wirth

SK



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- ENVIRONMENTAL

REPORT OF COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS - ASTM:C39

PROJECT:
RED ROCK SUBSTATION
ST. PAUL, MN
NSP#E-98FH03

REPORTED TO:
NSP (2)
414 NICOLLET MALL
MINNEAPOLIS, MN 55401

ATTN: JEFF LUND
CC: ULTEIG ENGINEERS

AET JOB NO: 02-01909

DATE: March 14, 2000

Set No: 1 A - C
Date Cast: 2/14/00
Mix No: 802

Placement Information

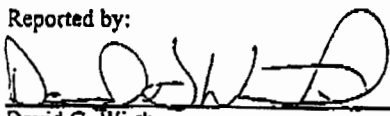
Cast By: Pat Case
Placement Method: Truck Discharge
Placement Location: Pier 501, 502, 503

Plastic Properties

Slump, in: (ASTM:C143) 4.0
Air Content, %: (ASTM:C231) 5.8
Concrete Temp. (F°): (ASTM:C1064)
Concrete Supplied By: AVR
Truck No: PX01061
Date Received in Laboratory: 2/16/00

Cylinder No.	1A	1B	1C
Cylinder Information			
Height (in.):	12.00	12.00	12.00
Diameter (in.):	6.00	6.00	6.00
Cross-sectional area (sq. in.):	28.27	28.27	28.27
Cylinder condition/preparation:			
Curing Information			
Test date:	2/21/00	2/28/00	3/13/00
Days on site:	2	2	2
Days in curing:	5	12	26
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Specified strength (PSI at 28 days):	4,000	4,000	4,000
Type of failure:	Cone	Cone	Cone
Conformance: The 28-day test result meets the required design strength.			

Reported by:


David G. Wirth

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REPORT OF COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS - ASTM:C39

PROJECT:

RED ROCK SUBSTATION
ST. PAUL, MN
NSP#E-98FH03

REPORTED TO:

NSP (2)
414 NICOLLET MALL
MINNEAPOLIS, MN 55401

ATTN: JEFF LUND

CC: ULTEIG ENGINEERS

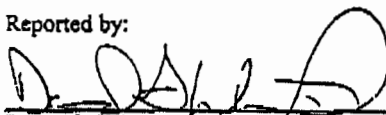
AET JOB NO: 02-01909

DATE: March 14, 2000

Set No:	1 A - C		
Date Cast:	2/14/2000		
Mix No:	802		
Placement Information		Plastic Properties	
Cast By:	Pat Case	Slump, in: (ASTM:C143)	4.0
Placement Method:	Truck Discharge	Air Content, %: (ASTM:C231)	5.8
Placement Location:	Pier 501, 502, 503	Concrete Temp. (F°): (ASTM:C1064)	
		Concrete Supplied By:	AVR
		Truck No:	PX01061
		Date Received in Laboratory:	2/16/2000

Cylinder No.	1A	1B	1C
Cylinder Information			
Height (in.):	12.00	12.00	12.00
Diameter (in.):	6.00	6.00	6.00
Cross-sectional area (sq. in.):	28.27	28.27	28.27
Cylinder condition/preparation:			
Curing Information			
Test date:	2/21/2000	2/28/2000	3/13/2000
Days on site:	2	2	2
Days in curing:	5	12	26
Age at testing (days):	7	14	28
Test Information			
Load at failure (lbs.):	103,150	121,450	149,610
Strength at failure (PSI):	3,650	4,300	5,290
Specified strength (PSI at 28 days):	4,000	4,000	4,000
Type of failure:	Cone	Cone	Cone

Conformance: The 28-day test result meets the required design strength.

Reported by:

 David G. Wirth

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REPORT OF COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS - ASTM:C39

PROJECT:

RED ROCK SUBSTATION
ST. PAUL, MN
NSP#E-98FH03

REPORTED TO:

NSP (2)
414 NICOLLET MALL
MINNEAPOLIS, MN 55401

ATTN: JEFF LUND

CC: ULTEIG ENGINEERS

AET JOB NO: 02-01909

DATE: March 14, 2000

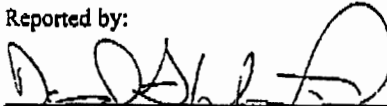
Set No: 1 A - C
Date Cast: 2/14/2000
Mix No: 802
Placement Information
Cast By: Par Case
Placement Method: Truck Discharge
Placement Location: Pier 501, 502, 503

Plastic Properties

Slump, in: (ASTM:C143) 4.0
Air Content, %: (ASTM:C231) 5.8
Concrete Temp. (F°): (ASTM:C1064)
Concrete Supplied By: AVR
Truck No: PX01061
Date Received in Laboratory: 2/16/2000

Cylinder No.	1A	1B	1C
Cylinder Information			
Height (in.):	12.00	12.00	12.00
Diameter (in.):	6.00	6.00	6.00
Cross-sectional area (sq. in.):	28.27	28.27	28.27
Cylinder condition/preparation:			
Curing Information			
Test date:	2/21/2000	2/28/2000	3/13/2000
Days on site:	2	2	2
Days in curing:	5	12	26
Age at testing (days):	7	14	28
Test Information			
Load at failure (lbs.):	103,150	121,450	149,610
Strength at failure (PSI):	3,650	4,300	5,290
Specified strength (PSI at 28 days):	4,000	4,000	4,000
Type of failure:	Cone	Cone	Cone
Conformance: The 28-day test result meets the required design strength.			

Reported by:


David G. Wirth

SK

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REPORT OF COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS - ASTM:C39

PROJECT:
RED ROCK SUBSTATION
ST. PAUL, MN
NSP#E-98FH03

REPORTED TO:
NSP (2)
414 NICOLLET MALL
MINNEAPOLIS, MN 55401

**ATTN: JEFF LUND
CC: ULTEIG ENGINEERS**

AET JOB NO: 02-01909

DATE: March 16, 2000

**Set No: 2 A - C
Date Cast: 2/16/2000
Mix No: 802**

Placement Information

**Cast By: Par Case
Placement Method: Truck Discharge
Placement Location: Piers #400. #500**

Plastic Properties

**Slump, in: (ASTM:C143) 4.7
Air Content, %: (ASTM:C231) 6.1
Concrete Temp. (F°): (ASTM:C1064)
Concrete Supplied By: AVR
Truck No:
Date Received in Laboratory: 2/18/2000**

Cylinder No.	2A	2B	2C
Cylinder Information			
Height (in.):	12.00	12.00	12.00
Diameter (in.):	6.00	6.00	6.00
Cross-sectional area (sq. in.):	28.27	28.27	28.27
Cylinder condition/preparation:			
Curing Information			
Test date:	2/23/2000	3/1/2000	3/15/2000
Days on site:	2	2	2
Days in curing:	5	12	26
Age at testing (days):	7	14	28
Test Information			
Load at failure (lbs.):	77,250	93,750	114,180
Strength at failure (PSI):	2,730	3,320	4,040
Specified strength (PSI at 28 days):	4,000	4,000	4,000
Type of failure:	Cone	Cone	Cone
Conformance: The 28-day test result meets the required design strength.			

Reported by:

[Signature]
David G. Wirth

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- ENVIRONMENTAL

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REPORT OF COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS - ASTM:C39

PROJECT:

RED ROCK SUBSTATION
ST. PAUL, MN
NSP#E-98FH03

REPORTED TO:

NSP (2)
414 NICOLLET MALL
MINNEAPOLIS, MN 55401

ATTN: JEFF LUND

CC: ULTEIG ENGINEERS

AET JOB NO: 02-01909

DATE: March 21, 2000

Set No: 4 A - C
Date Cast: 2/21/2000
Mix No: 802

Placement Information

Cast By: Pat Case
Placement Method: Truck Discharge
Placement Location: Pier #600

Plastic Properties

Slump, in: (ASTM:C143) 4.1
Air Content, %: (ASTM:C231) 6.1
Concrete Temp. (F°): (ASTM:C1064)
Concrete Supplied By: AVR
Truck No:
Date Received in Laboratory: 2/22/2000

<u>Cylinder No.</u>	4A	4B	4C
Cylinder Information			
Height (in.):	12.00	12.00	12.00
Diameter (in.):	6.00	6.00	6.00
Cross-sectional area (sq. in.):	28.27	28.27	28.27
Cylinder condition/preparation:			
Curing Information			
Test date:	2/28/2000	3/ 6/2000	3/20/2000
Days on site:	1	1	1
Days in curing:	6	13	27
Age at testing (days):	7	14	28
Test Information			
Load at failure (lbs.):	122,100	124,140	164,370
Strength at failure (PSI):	4,320	4,390	5,810
Specified strength (PSI at 28 days):	4,000	4,000	4,000
Type of failure:	Cone	Cone	Cone

Conformance: The 28-day test result meets the required design strength.

Reported by:

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RED ROCK SUBSTATION
ST. PAUL, MN
NSP#E-98FH03

REPORTED TO:

NSP (2)
414 NICOLLET MALL
MINNEAPOLIS, MN 55401

ATTN: JEFF LUND

CC: ULTEIG ENGINEERS

AET JOB NO: 02-01909

DATE: March 21, 2000

Set No: 4 A - C
Date Cast: 2/21/2000
Mix No: 802

Placement Information

Cast By: Par Case
Placement Method: Truck Discharge
Placement Location: Pier #600

Plastic Properties

Slump, in: (ASTM:C143) 4.1
Air Content, %: (ASTM:C231) 6.1
Concrete Temp. (F°): (ASTM:C1064)
Concrete Supplied By: AVR
Truck No:
Date Received in Laboratory: 2/22/2000

<u>Cylinder No.</u>	4A	4B	4C
Cylinder Information			
Height (in.):	12.00	12.00	12.00
Diameter (in.):	6.00	6.00	6.00
Cross-sectional area (sq. in.):	28.27	28.27	28.27
Cylinder condition/preparation:			
Curing Information			
Test date:	2/28/2000	3/ 6/2000	3/20/2000
Days on site:	1	1	1
Days in curing:	6	13	27
Age at testing (days):	7	14	28
Test Information			
Load at failure (lbs.):	122,100	124,140	164,370
Strength at failure (PSI):	4,320	4,390	5,810
Specified strength (PSI at 28 days):	4,000	4,000	4,000
Type of failure:	Cone	Cone	Cone

Conformance: The 28-day test result meets the required design strength.

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• GEOTECHNICAL
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REPORT OF COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS - ASTM:C39

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RED ROCK SUBSTATION
ST. PAUL, MN
NSP#E-98FH03

REPORTED TO:
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MINNEAPOLIS, MN 55401

ATTN: JEFF LUND
CC: ULTEIG ENGINEERS

AET JOB NO: 02-01909

DATE: March 20, 2000

Set No: 3 A - C
Date Cast: 2/18/2000
Mix No: 802

Placement Information


Cast By: Pat Case
Placement Method: Truck Discharge
Placement Location: Pier #504

Plastic Properties

Slump, in: (ASTM:C143) 4.5
Air Content, %: (ASTM:C231) 6.1
Concrete Temp. (F°): (ASTM:C1064)
Concrete Supplied By: AVR
Truck No:
Date Received in Laboratory: 2/22/2000

Cylinder No.	3A	3B	3C
Cylinder Information			
Height (in.):	12.00	12.00	12.00
Diameter (in.):	6.00	6.00	6.00
Cross-sectional area (sq. in.):	28.27	28.27	28.27
Cylinder condition/preparation:			
Curing Information			
Test date:	2/25/2000	3/ 3/2000	3/17/2000
Days on site:	4	4	4
Days in curing:	3	10	24
Age at testing (days):	7	14	28
Test Information			
Load at failure (lbs.):	90,150	114,280	139,410
Strength at failure (PSI):	3,190	4,040	4,930
Specified strength (PSI at 28 days):	4,000	4,000	4,000
Type of failure:	Cone	Cone	Cone

Conformance: The 28-day test result meets the required design strength.

Reported by:

David G. Wirth

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