

TECHNICAL SUPPORT CENTER CRACK MONITORS

Omaha Public Power District

OPPD

To: Keith Kirchner, Pat Poepsel, Rick Niedergeses	
From: Cameron Collingsworth	Project: OPPD FCS 2011 Flood Inundation Structure Assessment OPPD Plant, Ft. Calhoun, NE
CC: Project File, David Rohan	HDR Project No: 164565, Dept. 134
Date: December, 1 st 2011	Field Report No: FR-110

Team Members:

Cameron Collingsworth (HDR)
 Phil Turner (OPPD)

Field Activity Objective:

Our field activity objective is to install three crack monitors in Room 127 of the Technical Support Center on a horizontal crack in the east masonry wall.

Activities Conducted:

The team installed three crack monitors on a horizontal crack in the east masonry wall of Room 127. The monitors were attached to the wall using a two-part epoxy.

Data Obtained:

Phil Turner from OPPD took photos of the crack monitors and measured their relative horizontal placement from each other.

Observations:

Crack monitors were labeled 1 through 3 with a black permanent marker prior to installation:

- Crack monitor #1 was located on the north end of the crack approximately 2 ft from the visible crack end.
- Crack monitor #2 was located at the approximate mid-span of the crack
- Crack monitor #3 was located on the south end of the crack approximately 2 ft from the visible crack end.

Crack monitors were plumb at the time of installation.



Field Report

To: Keith Kirchner, Pat Poepsel, Rick Niedergeses	
From: Cameron Collingsworth	Project: OPPD FCS 2011 Flood Inundation Structure Assessment OPPD Plant, Ft. Calhoun, NE
CC: Project File, David Rohan	HDR Project No: 164565, Dept. 134
Date: December, 8 th 2011	Field Report No: FR-111

Team Members:

Cameron Collingsworth (HDR)
Phil Turner (OPPD)

Field Activity Objective:

Our field activity objective is to observe three crack monitors in Room 127 of the Technical Support Center on a horizontal crack in the east masonry wall that were installed on December 1st, 2011.

Activities Conducted:

The team observed three crack monitors on a horizontal crack in the east masonry wall of Room 127. The monitors were attached to the wall using a two-part epoxy.

Data Obtained:

Cameron Collingsworth from HDR took photos of the crack monitors.

Observations:

- Crack monitors #1 and #2 showed no signs of movement.
- Crack monitor #3 showed a slight horizontal shift that was not uniform from the top to the bottom of the target. Movement at the top of the target showed approximately 0.5mm of horizontal movement while the bottom of the target showed approximately 0.25mm of movement. No vertical movement in the target could be seen.



Field Report

To: Keith Kirchner, Pat Poepsel, Rick Niedergeses	
From: Cameron Collingsworth	Project: OPPD FCS 2011 Flood Inundation Structure Assessment OPPD Plant, Ft. Calhoun, NE
CC: Project File, David Rohan	HDR Project No: 164565, Dept. 134
Date: December, 15 th 2011	Field Report No: FR-113

Team Members:

Cameron Collingsworth (HDR)
Phil Turner (OPPD)

Field Activity Objective:

Our field activity objective is to observe three crack monitors in Room 127 of the Technical Support Center on a horizontal crack in the east masonry wall that were installed on December 1st, 2011.

Activities Conducted:

The team observed three crack monitors on a horizontal crack in the east masonry wall of Room 127. The monitors were attached to the wall using a two-part epoxy.

Data Obtained:

Cameron Collingsworth from HDR took photos of the crack monitors.

Observations:

- Crack monitors #1 and #2 and #3 showed no signs of movement since the last inspection on December 8th, 2011.



Field Report

To: Keith Kirchner, Pat Poepfel, Rick Niedergeses	
From: Cameron Collingsworth	Project: OPPD FCS 2011 Flood Inundation Structure Assessment OPPD Plant, Ft. Calhoun, NE
CC: Project File, David Rohan	HDR Project No: 164565, Dept. 134
Date: December, 22 nd 2011	Field Report No: FR-114

Team Members:

Cameron Collingsworth (HDR)
Phil Turner (OPPD)

Field Activity Objective:

Our field activity objective is to observe three crack monitors in Room 127 of the Technical Support Center on a horizontal crack in the east masonry wall that were installed on December 1st, 2011.

Activities Conducted:

The team observed three crack monitors on a horizontal crack in the east masonry wall of Room 127. The monitors were attached to the wall using a two-part epoxy.

Data Obtained:

Cameron Collingsworth from HDR took photos of the crack monitors.

Observations:

- Crack monitors #1 and #2 and #3 showed no signs of movement since the last inspection on December 15th, 2011.

Security-Related and/or Personal Information Redacted

Project: OPPD- PLS Computed: GJC Date: 12/1/11
Subject: Tech Support Ctr Checked: _____ Date: _____
Task: Crack Monitor Installation Page: _____ of: _____
Job #: _____ No: _____

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