

The following condition summary reflects site work performed since June 2010 evaluation. This information is submitted for reference only. Monroe Avenue has been abandoned since 2010 and is no longer maintained.

INSIDE PERIMETER FENCE - MAIN TRAFFIC AREAS	
Street Name	Condition
2nd Street	Excellent
5th Street	Excellent
6th Street	Fair
7th Street	Excellent
9th Street	Good
10th Street	Excellent
11th Street	Slightly Fair
11th Street	Fair
12th Street	Fair
15th Street	Fairly Good
16th Street	Fair
16th Street	Fair
18th Street	Fair
20th Street	Fair
20th Street	Poor
Defiance Avenue	Good
Jackson Avenue	Slightly Fair

INSIDE PERIMETER FENCE - MAIN TRAFFIC AREAS (CONTINUED)	
Street Name	Condition
Knox	Slightly Fair
Lake Avenue	Excellent
Lawrence Avenue	Good
Mahoning Avenue	Good
Mahoning Avenue	Good
Mahoning Avenue	Good
Miami Avenue	Good
Monroe Avenue	Slightly Fair
Pike Avenue	Excellent
Scioto Avenue	Good
Scioto Avenue	Poor
Scioto Avenue	Fairly Good
X-611 Water Treatment Plant Access Road	Fair
Entrance Road	Excellent
Hewes Street	Fair

Outside Perimeter Fence	
Street Name	Condition
Perimeter Road, South of Principle access road	Good
Perimeter Road, Principle Access Road to North Access Road	Fairly Good
Perimeter Road, North Access Road to East Access Road	Good
Perimeter Road, East Access Road to Entrance Road	Fairly Good
Perimeter Road, Entrance Road to Hewes Street	Fairly Good
Perimeter Road, Hewes Street to South Access Road	Good
South Access Road to Southwest Construction Access Road	Good
South Access Road to Southwest Construction Access Road	Good
South Access Road to Southwest Construction Access Road	Good
Fog Road	Good
Perimeter Road to North Portal	Slightly Fair
Perimeter Road to West Portal	Fairly Good
Perimeter Road to D Portal/Truck Access Road	Good
Southwest Construction Access Road	Fairly Good

PARKING LOTS	
Facility Description	Condition
X-206A	Excellent
X-206B	Poor
X-206H	Fair
X-206J	Poor
X-206K	Fair
X-206A extension by X-151	Poor
Paved areas around larger facilities	Fair

PEDESTRIAN WALKWAYS	
Description	Condition
Critical Walkways	Fairly Good
Other Walkways	Fairly Good

OTHER / MINOR ROADS / GRAVEL ROADS	
Street Name	Condition
17th Street	Good
19th Street	Good
Washington Avenue	Fair
Greene Avenue	Severely Poor
27th Street	Severely Poor
West of X-533A	Severely Poor
Athens Avenue	Fair
Brown Avenue	Severely Poor
22nd Street	Fair
24th Street	Fair
26th Street	Good
Belmont Avenue	Fair
Butler Avenue	Poor
Clermont Avenue	Good
Clinton Avenue	Poor
Trumbull Avenue	Poor
Williams Avenue	Fair
Wood Avenue	Fair
Warren Avenue	Poor
21st Street	Fair
25th Street	Good
29th Street	N/A
Booster Pump Station Road	Poor
A Road	Fair
B Road	Excellent/Poor
Patrol Road	Fair
Patrol Road B	Poor

ENGINEERING EVALUATION COVERSHEET

Number: EVAL-DE-2008-0169, Rev 2

ESO # or Problem Report #: PR-PTS-07-02313

Type: Engineering Evaluation

Evaluation Duration: One Time Only

Title: X-SITE ROAD CONDITIONS

Applicability / Description Statement:Eval Doc Link:

In response to PR-PTS-07-02313, an assessment of all the roads of significance was conducted on Friday, April 25, 2008. Another assessment of the roads was conducted on Friday, June 25, 2010 in regards to the mandatory biennial road inspection process.

In June 2008, more roads were added to the list of significant roads, which includes all roads leased to USEC. Revision 1 incorporates the addition of these roads and also input from UDS on projected truck routing, which includes particular concern on the intersections where trucks, weighing up to approximately 140,000 lbs, will need firm pavement such as reinforced concrete to withstand the potential impact that these trucks will have on the pavement.

Significant roads include roads with heavy traffic and roads that are the main routes that are traveled on the Portsmouth Gaseous Diffusion Plant Site and other roads leased to USEC. Also included are Perimeter Road, North Access Road, Principal Access Road, Southwest Construction Access Road, Hewes Street, Truck Access Road, Entrance Road, and parking lots including X-206A, X-206B, X-206J, and X-7721. Other roads that are not seen as significant at the time of this evaluation are listed for reference in the attached spreadsheet. The street names, lengths, conditions, and descriptions of the roads are listed in the attachment. There is also a site map color coded with the various conditions.

During the assessment the roads were assessed for various types of cracking and other damages, which include, alligator cracking, longitudinal cracking, transverse cracking, block cracking, potholes, depressions, washboard pavement, edge crumbling, and patches.

The conditions of the roads were chosen from the following:

- Excellent: Road has been repaved recently.
- Good: Road has been repaved in the last 10 years and may have a couple of minor cracks.
- Fairly Good: Road has a few cracks and is still in good condition.
- Fair: Road has various cracks, but overall is still in fair condition.
- Slightly Fair: Road has various cracks and is on the border of being poor.
- Poor: Road has many different types of cracking and damages and is in poor driving condition.
- Severely Poor: Road has many different types of cracking, potholes, and/or deterioration and should be considered for re-pavement.

In fall 2008, the Northeast Perimeter Road and Truck Access Road were freshly paved and in excellent condition. Also in 2009, the roads within the ACP leased area were leased to ACP.

In 2010, the biennial road inspection took place. Many of the roads were in similar condition in respect to the inspection two years prior, but there were some minor differences in the condition of the roads from 2008. These differences include that some of the roads have been paved and are now in excellent condition as mentioned above, and there are roads that have further deteriorated over the last two years. Even though these roads are fully operable, in the next biennial inspection, these roads should be inspected for significant changes in deterioration.

Another difference in the 2010 road inspection was that some roads that could not be accessed due to construction. Therefore, these roads could not be inspected. (These roads are labeled in the table as "Road closed due to construction" or "Heavy construction area".) During the next biennial road inspection, it is suggested that these roads are closely inspected. (All differences from Rev. 1 are noted in Rev.2, 2010 report)

Operability / Reportability RecommendationsOperable? Yes NoPotentially Reportable under 10CFR21? Yes No**Non-Conforming Item Disposition - Check All That Apply**

- | | | |
|------------------------------------|---------------------------------|---|
| <input type="checkbox"/> Use-As-Is | <input type="checkbox"/> Reject | <input type="checkbox"/> Upgrade |
| <input type="checkbox"/> Repair | <input type="checkbox"/> Return | <input type="checkbox"/> Documentation |
| <input type="checkbox"/> Rework | | <input type="checkbox"/> Acceptable-As-Is |

ImplementationActions Required? Yes NoIAW Number: PCR Number: PCR Hyperlink: Date Approved: Expiration Date:

NOTE: If implementing actions are required, an IAW number is also required to assure such actions are completed and do not violate certificate requirements and authorizations.

Changes to Design Docs Needed? Yes NoAffected Docs: **Other Comments or Notes:**

Approvals

 7-2-10

Signature / Date

Author: Skeens, Brennan

 / 7/2/10

Signature / Date

Reviewer: Stone, Ellen

 / 7/2/10

Signature / Date

Approver: McLaughline, Stephanie

Street Name	Length (ft.)	Condition	Alligator Cracking	Longitudinal Cracking	Transverse Cracking	Block Cracking	Potholes	Depressions	Washboard	Edge Crumbling	Patching	Description
INSIDE PERIMETER FENCE - GDP SIDE (MAIN TRAFFIC AREAS)												
2nd Street	92	Excellent										Scioto Avenue to Portal has been repaved
5th Street	802	Excellent		✓								Repaved
6th Street	489.25	Poor	✓	✓	✓		2	✓			✓	
7th Street	725	Fair		✓	✓							Limited Transverse
9th Street	500	Fair	✓	✓	✓							Slight Alligator Cracking & Edge Crumbling
10th Street	1225	Poor	✓	✓	✓	✓	✓	✓		✓	✓	Slight Edge Crumbling
11th Street	510	Slightly Fair	✓	✓	✓	✓	1				✓	West of Mahoning Avenue (Intersection of 11th Street and Mahoning Avenue is poor)
11th Street	645	Fair	✓	✓	✓	✓	✓				✓	East of Mahoning Avenue
12th Street	1305	Fair	✓	✓	✓						✓	A Few Scattered Potholes
15th Street	829	Fairly Good		✓	✓	✓					✓	
16th Street	442	Slightly Fair	✓	✓	✓	✓					✓	East of Jackson Avenue
16th Street	1305	Fair	✓	✓	✓		✓	✓				West of Jackson Avenue
18th Street	1756	Slightly Fair	✓	✓	✓	✓		✓			✓	
20th Street	1750	Fair	✓	✓	✓	✓					✓	West of Pike Avenue
20th Street	1756	Slightly Fair	✓								✓	East of Pike Avenue (Severe Alligator Cracking)
Defiance Avenue	640	Poor	✓	✓	✓			✓				
Jackson Avenue	1442	Slightly Fair	✓		✓		✓	✓			✓	Shoulder Damage/Crumbling

Street Name	Length (ft.)	Condition	Alligator Cracking	Longitudinal Cracking	Transverse Cracking	Block Cracking	Potholes	Depressions	Washboard	Edge Crumbling	Patching	Description
INSIDE PERIMETER FENCE - GDP SIDE (MAIN TRAFFIC AREAS) CONTINUED												
Knox	1071	Slightly Fair	✓	✓	✓		✓				✓	
Lake Avenue	428	Poor	✓	✓	✓	✓	✓			✓	✓	
Lawrence Avenue	940	Slightly Fair	✓	✓	✓	✓					✓	
Mahoning Avenue	1069	Good		✓								From 7th Street to 11th Street (Repaved in 2007)
Mahoning Avenue	643	Fair	✓	✓	✓		1					From 11th Street to 12th Street
Mahoning Avenue	230.25	Fairly Good		✓	✓							South of 7th Street
Miami Avenue	615	Slightly Fair	✓	✓	✓	✓	✓					
Morroe Avenue	643	Slightly Fair	✓	✓	✓	✓		✓				
Pike Avenue	5677	Fair		✓	✓	✓						
Scioto Avenue	486	Excellent		✓								
Scioto Avenue	2530	Poor	✓	✓	✓			✓			✓	From 5th Street south to Portal (Repaved)
Scioto Avenue	2488	Slightly Fair	✓	✓	✓	✓						5th Street to 15th Street
X-611 Water Treatment Plant Access Road	1330	Fair	✓	✓	✓	✓	1				✓	15th Street to 20th Street
Entrance Road	1401	Fairly Good		✓	✓	✓						All of the patching at top near gate
Hewes Street	2380	Poor	✓	✓	✓	✓	✓				✓	Slight Edge Crumbling

Street Name	Length (ft.)	Condition	Alligator Cracking	Longitudinal Cracking	Transverse Cracking	Block Cracking	Potholes	Depressions	Washboard	Edge Crumbling	Patching	Description
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PERIMETER ROAD

Perimeter Road, South of Principle access road	2229	Good		✓								No apparent cracks
Perimeter Road, Principle Access Road to North Access Road	6236	Fairly Good		✓							✓	Fairly good, minor cracks longitudinal cracks from heavy traffic
Perimeter Road, North Access Road to East Access Road	3769	Good										Edge Crumbling is around East Portal
Perimeter Road, East Access Road to Entrance Road	2012	Fairly Good		✓	✓					✓		Few potholes
Perimeter Road, Entrance Road to Hewes Street	4326	Fairly Good		✓	✓						✓	Various spots have transverse & longitudinal cracking
Perimeter Road, Hewes Street to South Access Road	6546	Fairly Good		✓	✓						✓	
South Access Road to Southwest Construction Access Road	934	Good		✓	✓							
South Access Road to Southwest Construction Access Road	1867	Slightly Fair		✓	✓					✓		Very little edge crumbling and a few potholes
South Access Road to Southwest Construction Access Road	1867	Poor		✓	✓		✓				✓	(May vary between slightly fair and poor in places)

PORTAL SEGMENTS

Perimeter Road to North Portal	3568	Slightly Fair	✓	✓	✓						✓	Cracks in various places, some areas are good
Perimeter Road to West Portal	3696	Fairly Good		✓	✓							Fairly Good, Some minor cracks Transverse cracks and one noticeable pothole
Perimeter Road to D Portal/Truck Access Road	3108	Excellent										
Southwest Construction Access Road	3163	Fairly Good		✓	✓						✓	Various cracking

PARKING LOTS BY FACILITY NUMBER

X-206A	449880	Poor	✓	✓	✓	✓	✓	✓	✓	✓	✓	Severe longitudinal crevices
X-206B	278633	Poor	✓	✓	✓	✓	✓	✓	✓	✓	✓	Severe longitudinal crevices
X-206J	129431	Poor	✓	✓	✓	✓	✓	✓	✓	✓	✓	Major cracking and potholes

