

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2016 Levee Inspection Results

Reclamation District No. 0369 Libby McNeil

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

* **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2016 Levee Inspection Results

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles
Unit No. 01 Sacramento River	Left	0.78

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/8/2016 - 3/8/2016			
DWR Inspector	Herman Phillips			
Accompanied By	Clarence Chu RD 369			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	03/08/2016 03/08/2016	Herman Phillips

LM Start		Rating **	M	Issue No.	22
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			o	o
DWR ID	DWR_RD0369_01_f_2012_22				
Comment Code					
Inspector Comment					
RD 369 members have not been flood fight trained.					

No Photos

LM Start		Rating **	A	Issue No.	27
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			o	o
DWR ID	DWR_RD0369_01_f_2014_27				
Comment Code					
Inspector Comment					
RD 369 I have forwarded to the District Mr. Clarence Chu a copy of the O & M Manual for their record.					

No Photos

LM Start		Rating **	M	Issue No.	28
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			o	o
DWR ID	DWR_RD0369_01_f_2014_28				
Comment Code					
Inspector Comment					
RD 369 have no emergency supplies on hand.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	03/08/2016 03/08/2016	Herman Phillips

LM Start	0.04	Rating **	M	Issue No.	36 (cont)
LM End	0.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.258434 °	38.258434 °
				-121.517283 °	-121.517283 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43625 DS_ID:18971 EP_NO: 8555 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe corroded through on LS at retaining wall. May not go all the way through the levee. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 2 of 2: 4-inch steel pipe through the levee, 4-feet below the crown. Pipe visible on LS at retaining wall (Permit No. 8555 - Jordan Investment Co.) FS Date: 3/4/2015 4:11:00 PM					

Photo 2 of 2 : UCIP_SP_2016_43625_73164.jpg



Pipe visible on retaining wall at LS toe.

LM Start	0.05	Rating **	M	Issue No.	30
LM End	0.05	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.258347 °	38.258347 °
				-121.517169 °	-121.517169 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43811 DS_ID:18970 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and is filled with soil. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 8-inch steel drainpipe through the levee, 8-feet below the crown. Hole in concrete retaining wall on LS slope measures 10-inches in diameter. FS Date: 3/4/2015 4:41:00 PM					

Photo 1 of 2 : UCIP_SP_2016_43811_73162.jpg



10-inch hole in concrete retaining wall likely for this pipe. Visible on LS toe. Portion of pipe visible.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	03/08/2016 03/08/2016	Herman Phillips

LM Start	0.05	Rating **	M	Issue No.	30 (cont)
LM End	0.05	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.258347 °	38.258347 °
				-121.517169 °	-121.517169 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43811 DS_ID:18970 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and is filled with soil. Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 8-inch steel drainpipe through the levee, 8-foot below the crown. Hole in concrete retaining wall on LS slope measures 10-inches in diameter. FS Date: 3/4/2015 4:41:00 PM					

Photo 2 of 2 : UCIP_SP_2016_43811_73161.jpg



10-inch hole in concrete retaining wall likely for this pipe. Visible on LS toe.

LM Start	0.09	Rating **	U	Issue No.	31
LM End	0.09	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.257953 °	38.257953 °
				-121.516613 °	-121.516613 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43812 DS_ID:25084 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Severe corrosion and holes visible in pipe on LS shoulder. Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 4-inch steel pipe through the levee, 1-foot below the crown. Pipe visible on LS slope just in-front of gate on LS shoulder. Listed in O+M manual at RM 27.87, 1959. FS Date: 3/4/2015					

Photo 1 of 2 : UCIP_SP_2016_43812_73331.jpg



Pipe visible on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	03/08/2016 03/08/2016	Herman Phillips

LM Start	0.29	Rating **	M	Issue No.	17
LM End	0.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.255925°	38.255745°	
			-121.513930°	-121.513713°	
DWR ID	DWR_RD0369_01_f_2014_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
The trees along this section needs trimming.					

No Photos

LM Start	0.35	Rating **	M	Issue No.	32
LM End	0.35	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.255250°	38.255250°	
			-121.513210°	-121.513210°	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43814 DS_ID:18972 EP_NO: 11117 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Siphon breaker on LS slope needs protection. Water is leaking from pump station. Abandoned concrete structure found on WS. 10-inch abandoned pipe found on WS. Should be removed 6-inch abandoned pipe found on WS. Should be removed. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee 4.5-feet below the crown. Pump and Gate valve on WS shoulder. Siphon breaker on LS slope. O&M Manual Sac 111, May 1959, Revision Year 2011 RM 27.63 FS Date: 10/15/2012 4:11:00 PM					

Photo 1 of 2 : UCIP_SP_2016_43814_10460.jpg



Waterside view: overview of pipe & pump and abandoned concrete structure (left). Shutoff Valve.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	03/08/2016 03/08/2016	Herman Phillips

LM Start	0.35	Rating **	M	Issue No.	32 (cont)
LM End	0.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.255250 °	38.255250 °
				-121.513210 °	-121.513210 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43814 DS_ID:18972 EP_NO: 11117 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Siphon breaker on LS slope needs protection. Water is leaking from pump station. Abandoned concrete structure found on WS. 10-inch abandoned pipe found on WS. Should be removed. 6-inch abandoned pipe found on WS. Should be removed. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee 4.5-feet below the crown. Pump and Gate valve on WS shoulder. Siphon breaker on LS slope. O&M Manual Sac 111, May 1959, Revision Year 2011 RM 27.63 FS Date: 10/15/2012 4:11:00 PM					

Photo 2 of 2 : UCIP_SP_2016_43814_10456.jpg



Waterside view: water leaking pump station.

LM Start	0.50	Rating **	U	Issue No.	14
LM End	0.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.253468 °	38.253468 °
				-121.511692 °	-121.511692 °
DWR ID	DWR_RD0369_01_s_2016_14				
Comment Code					
TR : Tree or limb					
Inspector Comment					
These tree limbs were placed here by the County Fire Department. The storm caused the limbs to break and block traffic. This brush was causing a safety hazard to highway traffic. The County Fire Dept. cut the limbs up and drug them off the HWY.					

Photo 1 of 1 : SP_2016_RD0369_207_14_20160308_00023.jpg



Cut up tree limbs placed on the shoulder and landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	03/08/2016 03/08/2016	Herman Phillips

LM Start	0.50	Rating **	M	Issue No.	33
LM End	0.50	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.253468 °	38.253468 °
				-121.511654 °	-121.511654 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43815 DS_ID:18981 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Found abandoned pipe laying on WS levee slope. Pipe purpose and status should be determined. further investigation required. FIELD_STRUCT_DESC: 8-inch steel pipe running parallel with levee crown on WS slope. FS Date: 3/4/2015					

Photo 1 of 2 : UCIP_SP_2016_43815_73301.jpg



Pipe visible on WS slope running parallel to crown.

LM Start	0.50	Rating **	M	Issue No.	33 (cont)
LM End	0.50	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_SP_2016_43815_73300.jpg



Pipe on WS slope running parallel to leveel crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	03/08/2016 03/08/2016	Herman Phillips

LM Start	0.53	Rating **	M	Issue No.	16
LM End	0.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.253095 °	38.253095 °
				-121.511387 °	-121.511387 °
DWR ID	DWR_RD0369_01_s_2016_16				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Cut up and remove the dead tree from the waterside slope.					

Photo 1 of 1 : SP_2016_RD0369_207_16_20160314_00024.jpg



Dead tree on water side slope.

LM Start	0.55	Rating **	M	Issue No.	29
LM End	0.55	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.252840 °	38.252840 °
				-121.511210 °	-121.511210 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41441 DS_ID:18973 EP_NO: 13783 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Unable to locate due to dense vegetation. FIELD_STRUCT_DESC: Rehabilitate existing marina also debris deflector retain existing 2-inch dia. conduit. Install utility lines through levee (Septic tank on WS to leach field on LS). (App. # 13783) FS Date: 10/15/2012 4:47:00 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	03/08/2016 03/08/2016	Herman Phillips

LM Start	0.56	Rating **	U	Issue No.	18
LM End	0.57	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.252735 °	38.252542 °
				-121.511173 °	-121.511113 °
DWR ID	DWR_RD0369_01_s_2016_18				
Comment Code					
MA : Material					
Inspector Comment					
Two boat trailers placed on the waterside shoulder.					

No Photos

LM Start	0.61	Rating **	U	Issue No.	34
LM End	0.61	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.252176 °	38.252176 °
				-121.510833 °	-121.510833 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43816 DS_ID:18977 EP_NO: 14313 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Septic line appears to be leaking at LS toe. Erosion of soil and wet soil visible at LS toe. No septic smell accompanied other evidence at site. FIELD_STRUCT_DESC: 1 of 3: 2-inch-diameter galvanized steel sewer line through the left bank levee of the Sacramento River. A metal cutoff placed around the pipeline near the centerline of the levee. 4' x 6' CC box at LS toe (Permit No. 14313). FS Date: 3/4/2015 4:48:00 PM					

Photo 1 of 2 : UCIP_SP_2016_43816_73166.jpg



View at crossing through crown on LS shoulder from WS shoulder. Evidence of trench visible at cut in pavement.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	03/08/2016 03/08/2016	Herman Phillips

LM Start	0.61	Rating **	U	Issue No.	34 (cont)
LM End	0.61	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.252176°	38.252176°
				-121.510833°	-121.510833°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43816 DS_ID:18977 EP_NO: 14313 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Septic line appears to be leaking at LS toe. Erosion of soil and wet soil visible at LS toe. No septic smell accompanied other evidence at site. FIELD_STRUCT_DESC: 1 of 3: 2-inch-diameter galvanized steel sewer line through the left bank levee of the Sacramento River. A metal cutoff placed around the pipeline near the centerline of the levee. 4' x 6' CC box at LS toe (Permit No. 14313). FS Date: 3/4/2015 4:48:00 PM					

Photo 2 of 2 : UCIP_SP_2016_43816_73167.jpg



Waterside view. Unclear if there is a sewer cleanout or other evidence of pipe location on WS shoulder.

LM Start	0.69	Rating **	M	Issue No.	15
LM End	0.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.250988°	38.250910°
				-121.510355°	-121.510228°
DWR ID	DWR_RD0369_01_s_2012_15				
Comment Code					
FE : Fence					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 0369 Libby McNeil

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.78	03/08/2016 03/08/2016	Herman Phillips

LM Start	0.77	Rating **	U	Issue No.	35 (cont)
LM End	0.77	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.249819 °	38.249819 °
				-121.509946 °	-121.509946 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:43756 DS_ID:18984 EP_NO: 12944 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: WS shoulder is saturated do to a water leak either at this backflow preventer or due to another waterline in the area. Leak needs to be repaired. FIELD_STRUCT_DESC: 1 of 2: 4-inch Galvanized steel domestic water line through the levee 1.5-feet below the crown. Provides service to town of lock down center of Levee Street. Concrete Block pumphouse on WS at south end of boathouse. Gate valves and Backflow device visible at south side of Boathouse (Permit No. 12944, 1982). FS Date: 10/15/2012 4:56:00 PM					

Photo 2 of 2 : UCIP_SP_2016_43756_73293.jpg



Cut in pavement still visible at crossing near centerline of Levee Street.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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