PER Num = 114216 [Exact]

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114216 KIF-Dredge Cell Dike Leakage 11/20/2007 Archived

Identification Information

Original PER Number: NONE Work Site: Fossil Engineering Svs Initiating Org: DES Design Engineering Svs

Date of Occurrence:11/01/2006Division:F - FPGInitiator:PURKEY, RONALDSupervisor Reviewer:KAMMEYER, JOHNInitiation Date:11/06/2006 11:04:17 AM

Problem Description:

The dredge cell dike along Swan Pond Road is leaking ash just above the riprap-reinforced ditch. This transport of ash, if not arrested, will result in bank erosion and a

slip-circle type bank failure.

Probable Reason/Solution:

Potential Failure reasons/solutions:

1. The filter between the 12 inch thick soil cover and the drainage encasement by the road is discontinuous.

2. A past cell of leakage (probably from cell 1 above) is so active that the volume and velocity of the leakage overcomes the filter system we have.

Immediate/Interim Actions: 1. Set up 2 hour round the clock watches until 11/06/2006.

2. Made modifications at 2 places near the ditch where the filter fabric was found to be

discontinuous.

Potential Reactivity Issue:

Potentially Affects Operability: ?

Potentially Reportable:

Potential Environmental Issue: Yes
Corrected Immediately: No

Potential Degraded / Non-Conf Issue:

Additional Document:

Identification Method: Line

Affected... Unit(s): System(s): Equipment: Work Order(s): Document(s):

1. N/A 1. FESN/A NONE NONE NONE NONE NONE

Identification Information

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MRC Initial Review Due Date PER **PER Title** Status Entry Date Current Status Resp User KIF-Dredge Cell Dike Leakage 11/20/2007 114216 Archived **OPS Information** -Affects Operability: Other TVA Ops Notification: Nο **Operability Actions:** Work Site(s): NONE Reportable: Reportable Basis: Functional Eval Needed: ? **OPS Information** Reactivity Management Information — Reactivity Mgmt Issue: ? Reactivity Mgmt Issue Desc: **Reactivity Management Information** MRC Information -В MRC CAP Review Req.: Yes Level: Category: People **Extent of Condition:** Yes **Customer Group:** As Found: No Responsible Org.: **DESCIV Civil & Structural Eng** Reportable as OE: Responsible Empl.: PURKEY, RONALD MRC Initial Review Due Date: 11/13/2006 Analysis Type: Apparent **CAP Review Due Date:** 01/31/2007 Work Milestone Code: Non PER Justification: MRC Directions: Take credit for temporarily stopping stacking. **OE Requirement: MRC Information**

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Date: 01/21/2009

Time: 10:52:05

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PER PER Title Status Entry Date Current Status Resp User KIF-Dredge Cell Dike Leakage 11/20/2007 114216 Archived **Resp Org CAP Information -**PER Completion Due Date: 02/09/2007 Repeat Event/Cond.: No Causing Organization: ASME: Other **Event Class:** Generic Review Req/Info Only: Nο Work Site(s): Report Number: Cause Description: After the seep was disacovered, there was a set of borings performed. The borings revealed a shale NONE layer below the seep area which directs seepage up through the embankment. Similar Previous Event: **Extent of Condition:** Limited to kingston and to 500 feet length along Swan Pond Road. **CAP Development Narrative:** Recurrence Control: **Hardware Dispostion:** Hardware Disposition Just.: Cause Code(s): M.1.G Wrong operating or environmental parameters. **Resp Org CAP Information** Trend Codes -1. WD Waste Disposal **Program Codes:** NONE INPO Codes: Knowledge Based **Human Performance Error Code:** NONE **Executive Mangement Codes:** Human Errors or Inappropriate Action Codes: 1. Task Too Complex **Organization & Program Codes:** 1. Not Assigned NONE **Human Performance Process Code:** NRC Codes: NONE

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Impact Code:

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Trend Codes

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114216	KIF-Dredge Cell Dike Leakage	11/20/2007	Archived			
PER Actio	ns (Details attached) ——————					
Action Nur	n Description	Туре	Generated From	Assigned to Org.	Status	
114216-00	1		MRC	.NULL.	Cancelled	
114216-002	2	Action	CAP	DESCIVCivil & Structural Eng	Archived	
114216-003	3	Action	CAP	DESCIVCivil & Structural Eng	Archived	
				PER Acti	ons (Details attached)	
PER Attac	hments —————					
Filename		Size				

PER Attachments PER History -**Status Status Entry Date Status Completion Date** Responsible User Owner Initiate PER 11/06/2006 11/06/2006 PURKEY, RONALD PURKEY, RONALD Supv PER Review 11/06/2006 11/07/2006 KAMMEYER, JOHN TANIS, ROBERT MRC Initial PER Revw 11/07/2006 11/09/2006 PETERSON, LEONARD PETERSON, LEONARD Resp Org Plan CAP 11/09/2006 02/22/2007 PURKEY, RONALD PURKEY, RONALD Supv CAP Review 02/22/2007 02/26/2007 KAMMEYER, JOHN KAMMEYER, JOHN MRC CAP Review 04/02/2007 02/26/2007 PETERSON, LEONARD PETERSON, LEONARD 11/20/2007 PETTY, HAROLD Implement CAP 04/02/2007 PURKEY, RONALD RespOrg Mgr Close CAP 11/20/2007 11/20/2007 PETERSON, LEONARD KAMMEYER, JOHN Archived 11/20/2007 KAMMEYER, JOHN

Reroute Notes:

PER History

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Action 114	216-001 Details ————				
Action	Туре:				
	ted From: MRC				
Action	Due Date:				
Accept	ed by Org:				
=	ed to Org:				
_	ed to Empl:				
Descrip	•				
Action					
Cancell	l ation Reason : Request was put or	the MRC comments			
	ialion reacon. Request was parter				— Action 114216-001 Details
Action 114	216-001 Extensions ———				Action 114210-001 Details
	ion Num Reason for Extension			Proposed D	ue Date Status
					— Action 114216-001 Extensions
Action 114 Filenan				Size	
					- Action 114216-001
	216-001 History ————				
Status		Status Entry Date	Status Completion Date	Responsible User	Owner
MRC Req		11/09/2006	11/09/2006	PETERSON, LEONARD	PETERSON, LEONARD
Cancelled		11/09/2006			PETERSON, LEONARD
Reroute N	Notes:				
					— Action 114216-001 History

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Action 114216-002 Details

Action Type: Action
Generated From: CAP

Action Due Date: 02/02/2007

Accepted by Org: DESCIV Civil & Structural Eng
Assigned to Org: DESCIV Civil & Structural Eng

Assigned to Empl: PURKEY, RONALD

Description: Install wells in the area of the seeps. Monitor wells to determine the extend of the high subsurface hydrostatic pressures. In areas of higher

than expected pressures, install a 12 foot long drainage layer with filter cloth around the crushed stone. The drainage layer would be adjacent to the existing ditch and extend 12 feet over into the ash stack. This will draw down the pferatic surface to the ditch level.

Action Taken: Wells have ben installed to monitor groundwater

Criteria estabnlished Dredging has resumed

______ Action 114216-002 Details

Action 114216-002 Extensions

Extension Num Reason for Extension Proposed Due Date Status

Action 114216-002 Extensions

Action 114216-002

Filename Size

Action 114216-002

Action 114216-002 History

Status Status Completion Date Owner Status Entry Date Responsible User Request 01/25/2007 01/25/2007 PURKEY, RONALD PURKEY, RONALD 01/25/2007 Accept Action 01/25/2007 PURKEY, RONALD PURKEY, RONALD Complete 01/25/2007 05/18/2007 PURKEY, RONALD PURKEY, RONALD Archived 05/18/2007 PURKEY, RONALD

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Reroute No	otes:					
					— Action 114216-002 History	
Action 1142	216-003 Deta	ails ————————————————————————————————————				
Action T	ype:	Action				
	ed From:	CAP				
Action D	ue Date:	02/09/2007				
Accepted	d by Org:	DESCIV Civil & Structural Eng				
-	d to Org:	DESCIV Civil & Structural Eng				
_	d to Empl:	PURKEY, RONALD				
Descript	-	Install monitoring wells to insure when and in there is a blow-out of the toe of the dike. Mo		uild up, they will be detected in time	e to remediate them before	
Action T	Action Taken: Wells have been installed to monitor ground water elevation. Criteria established for monitoring. Dredging has resumed.					
					Action 114216-003 Details	
Action 1142 Extensio	216-003 Exte on Num Re	ensions eason for Extension		Proposed D	ue Date Status	
					- Action 114216-003 Extensions	
Action 1142 Filename				Size		
					- Action 114216-003	
	216-003 Hist	-	0// 0 1// 0/			
Status		Status Entry Date	Status Completion Date	Responsible User	Owner	
Request	ion	01/25/2007 01/25/2007	01/25/2007 01/25/2007	PURKEY, RONALD PURKEY, RONALD	PURKEY, RONALD PURKEY, RONALD	
Accept Acti Complete	IUII	01/25/2007	05/18/2007	PURKEY, RONALD	PURKEY, RONALD PURKEY, RONALD	
Archived		05/18/2007	00/10/2007	TORRET, NOTALD	PURKEY, RONALD	

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 114216
 KIF-Dredge Cell Dike Leakage
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Reroute Notes:

Action 114216-003 History

Environmental Information

Environ Review Number: 1149

Source of PER:

Notice of Violation: Is a Repeat:

Regulatory or NonConforming:

Findings or Observations:

Regulatory Areas: NONE **Noncompliance with EMS Processes:** NONE

Cancellation Reason: It is not Regulatory or Nonconforming at this time.

?

Environmental History

StatusStatus Entry DateStatus Completion DateResponsible UserOwnerPerform Environ Review11/07/200611/09/2006PETERSON, LEONARDPETERSON, LEONARDCancelled11/09/2006PETERSON, LEONARD

Environmental History

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Functional	Eval Information ———					
Functio	onal Eval Number:					
Due Dat	te:					
Functio	onal Evaluation Title:					
Functio	onality Maintained:	?				
Degrade	ed/non-Conf Condition:	?				
List Bas	sis:					
Immed/	Comp Measures:	?				
Action/l	Measures:					
						——— Functional Eval Information
Functional	l Eval Attachments———					
Filenam	ne				Size	
						——— Functional Eval Attachments
Functional	I Eval History ————					
Status			Status Entry Date	Status Completion Date	Responsible User	Owner
Reroute	e Notes:					
						Functional Eval History

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MRC Initial Review Due Date PER **PER Title** Status Entry Date Current Status Resp User 114216 KIF-Dredge Cell Dike Leakage 11/20/2007 Archived **Effectiveness Review Information Eff Review Number:** Due Date: **Effectiveness Review Title:** Training Effectiveness: **Design Change Effectiveness:** Overall Effectiveness: ? Self Assessment Performed: **Self Assessment Comment:** Similar Events: Repeat Events: ? **OE Review: OE Comments: Corrective Action Problems:** Action Complete as Intended: Adequate Elapsed Time: ? Is PER Required?: **New PER Number: Effectiveness Review Information** Effectiveness Review History -

Status Completion Date

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Status

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Effectiveness Review History