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American Electric Power Cook Nuclear Plant One Cook Place Bridgman, MI 49106 616 465 5901



July 31, 1998

United States Nuclear Regulatory Commission Document Control Desk Washington, DC 20555

> Operating Licenses DPR-58 Docket No. 50-315

**Document Control Manager:** 

In accordance with the criteria established by 10 CFR 50.73 entitled <u>Licensee Event</u> <u>Report System</u>, the following report is being submitted:

98-008-02

Sincerely,

J. R. Sampson Site Vice President

/mbd

Attachment

- C:
- C. J. Paperiello (Acting), Region III
- J. R. Sampson
- P. A. Barrett S. J. Brewer
- S. J. Brewer R. Whale

D. Hahn Records Center, INPO NRC Resident Inspector

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		LICENSEE EVENT REPORT (LER) (See reverse for required number of digits/characters for each block) ESTMATED BURDEN PER RESPONSE TO COMPLY WITH THIS MANDATO NFORMATION COLLECTION REQUEST: 50.0 HRS. REPORTED LESSONS LEARN ARE INCORPORATED INTO THE LICENSING BURDEN ESTIMATE TO ESTIMATE TO A REGULATOR NO RECORDS MANAGEMENT BRANCH (T-4 F33), US. NUCLE REGULATORY COMMISSION, WASHINGTON, DC 205550001, AND TO T PAPERWORK REDUCTION PROJECT (S150-0104), OFFICE OF MANAGEMENT A BUDGET, WASHINGTON, DC 20503								IS LEARNED BACK TO TE TO THE S. NUCLEAR D TO THE						
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describ	The types of ice basket damage observed during the recent inspections has been consistent with the types of damage described in the previous revision of this LER. Therefore, the conclusion that the ice baskets would have functioned to prevent containment overpressure remains valid, and the safety significance of the condition minimal.															

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NRC FORM 366A (4-95)

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## U.S. NUCLEAR REGULATORY COMMISSION

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# LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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FACILITY NAME (1)	DOCKET NUMBER(2)		LER NUM		PAGE (3)	
Cook Nuclear Plant Unit 1	50-315	YEAR	SEQUEN NUMBE		REVISION NUMBER	2 of 6
		98	- 008		02	
TEXT (If more space is required, use additional copies of NRC Fo	orm (366A) (17)				· · · · · · · · ·	
CONDITIONS PRIOR TO OCCURRENCE						
Unit 1 was in Mode 5, Cold Shutdown			, <b>*</b>			
Unit 2 was in Mode 5, Cold Shutdown			•			1
DESCRIPTION OF EVENT On January 12, 1998, with Unit 1 in Mode 5, a dama	aed ice condenser ice	hasketv	vas remov	ied fi	om the Linit	1 ice
condenser and a scoping test was performed to dete						
scoping test results showed that the damaged ice ba						
This event was reported to the NRC on January 12, notification, several forms of ice basket damage were						
dents and folds.	e identified including (	lamayeu	upper nin	5, 110	issing or torr	ngaments,
Each ice condenser consists of 24 bays containing 8						
containment structure. Each ice basket is approximate perform their design basis function, the ice baskets a						
not eject upward out of the ice bed and open up byp						
equipment, or eject out of the ice condenser and bec						
collapse causing adjacent or additional ice basket co bypass flow routes, or undefinable heat transfer geo		sulting in	excessive	: flow	' passagewa	y blockage,
bypass now routes, or underinable near transfer geo	meny.	. •				
During the current outages, damage was identified to						
Damage noted on ice baskets includes damaged top to be the most significant damage, a result of the bas						
thaw of the Unit 1 and Unit 2 ice condensers has bee	en completed. To dat	e over 33	percent	of the	ice baskets	in the Unit 1
ice condenser have been inspected, and repair /repla	acement activities are	ongoing	The type	e of i	ce basket da	mage
observed during these inspections has been consistering repairs for the Unit 2 ice condenser has not yet started						
repairs for the Onit 2 ice condenser has not yet start	ed, but it is anticipated	i inat ine	same typ	2010	amage will	
	*				ų	*
CAUSE OF EVENT						
The observed damage can be attributed to improper	handling of baskets o	lurina ma	intenance	and	surveillance	activities.
Because damage occurred during basket maintenan						
majority of this work, inadequate control of contracto						
to this cause include ineffective training for contract	personnel and inadeq	uate sup	ervisory o	versi	ght by utility	personnel.
Improper surveillance practices was another contribution	utor, since some of the	e more si	gnificant t	baske	et damage og	courred
during attempts to move baskets from beneath durin			-		•	-
Damaged top rims and folds in the baskets most like	by occurred during the	haekote	weighing	proc	ess The nr	ocess of
weighing baskets requires lifting the baskets from the						
frozen in place. In order to free frozen baskets for w						
the past was "jacking" of baskets from the bottom as event the basket remained frozen sometimes resulted						
near the basket bottom. The practice of jacking bas						
further basket damage.					, ,	

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	E EVENT REPORT (	LER) ·								
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FACILITY NAME (1)	DOCKET NUMBER(2) ·			NUMBER		PAGE (3)				
Cook Nuclear Plant Unit 1	50-315	YEAR		QUENTIAL UMBER	<ul> <li>REVISION</li> <li>NUMBER</li> </ul>	3 of 6				
		98	008		02	3010				
	ll	,								
TEXT (If more space is required, use additional copies of NRC Fo	orm (366A) (17)									
CAUSE OF EVENT (cont'd) Other types of damage can also occur to baskets during the weighing process if not carefully controlled. As previously noted, the weighing process requires lifting the basket by pulling from the top rim. Although limits are set on maximum lift forces, top rim damage can quickly occur if lift forces are not closely monitored, or if loading is applied asymmetrically. Damage can also occur during the weighing process when a frozen basket is exercised in an attempt to free it.										
activities. Two examples of this type damage include probably occurred during basket installation, or perha	Still other observed damage is considered to be the result of ice basket mishandling or inappropriate maintenance activities. Two examples of this type damage include inward dents in areas of basket ligaments and torn ligaments. Dents probably occurred during basket installation, or perhaps during clearing of flow passages. Tears in ligaments are most likely the result of prolonged contact with a pneumatic vibrator, which is used for emptying of ice baskets.									
The vast majority of ice condenser work has been per administered by the Engineering department and spe- responsibility was in addition to the System Engineer condenser work and analysis of surveillance test rest field oversight of the contractor. Steps were not take labor force. Therefore, field supervision for contract than by utility personnel. During the current outages condenser labor force to the maintenance department labor. These steps are aimed at addressing issues w	ecifically, the System I r's normal role of mana ults. This broad scope on to make other utility workers was largely p s, steps were taken to ant, which retains perso	Engineer, agement e of respo personn rovided b transfer r onnel skill	. The of the onsib el av oy col espo led in	e contrac e technic illities allo ailable fo ntract su nsibility f	t administrati al scope of the wed only min or oversight of pervisory persight of or oversight of	on ne ice himal time for f the contract sonnel rather of the ice				
The System Engineer historically administers a training program to the ice condenser contract personnel. This training includes guidance on basket weighing techniques and on appropriate use of tools to avoid damage to baskets. However, this training has apparently not been effective in preventing basket damage. Steps are being taken to overhaul this training, in part to reinforce appropriate techniques to preclude various types of ice basket damage.										
Finally, the lack of a definition of what constitutes "detrimental damage" was also viewed as a contributor, since there was no benchmark for personnel to gage whether observed damage resulted in an unacceptable condition. Simplistically, any basket damage sufficient to challenge the basket's ability to carry design loads is considered detrimental damage										
Documentation of damage to Cook Plant ice baskets in previous corrective action documents provides evidence that the organization was able to recognize damaged ice baskets as a condition adverse to quality. In fact, the Technical Specifications (T/S) require periodic inspection of a sample of ice baskets for detrimental damage. However, a definition of detrimental damage does not exist, other than wording in T/S 4.6.5.1.d, which refer to detrimental damage as "structural wear, cracks, corrosion or other damage." This lack of an objective definition may have contributed to confusion about the significance of the damaged ice baskets.										
· ·	2					•				
ANALYSIS OF THE EVENT On January 12, 1998, at 1545 hours EST an ENS no with 10CFR50.72(b)(2)(i), as an unanalyzed conditio a scoping load test result on a damaged ice basket v buckling damage are considered to bound other type these baskets having undergone plastic deformation	n and a condition outs vith buckling damage as of ice basket damage	side the p near the ge identifi	lant's bask ied d	s design et bottom uring the	basis, followi 1 rim. Basket current outa	ng receipt of s with ges due to				
This test examined the damaged basket's ability to s Basis Earthquake (OBE) and ice basket dead weight										

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U.S. NUCLEAR REGULATORY COMMISSION

# LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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## ANALYSIS OF THE EVENT (cont'd)

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failed with plastic deformation under a distributed lateral load of approximately 400 lbs in conjunction with a compressive load of approximately 2000 lbs. By comparison, WCAP-8304, Stress and Structural Analysis and Testing of Ice Baskets, specifies that the ice basket should be able to withstand a lateral load equivalent to approximately 2400 lbs distributed over the bottom 6 feet of the basket in conjunction with a compressive vertical load of 4933 lbs. The failure of this basket under less than design loads was considered to be an unanalyzed condition and thus was reported to the NRC per 10CFR50.72. Approximately 25 baskets in Unit 1 and 45 baskets in Unit 2 are currently know to exhibit similar damage.

The damaged ice baskets were evaluated as to compliance with the design basis, operability and functionality. Several types of ice basket damage were considered, including top rim damage, torn/missing ligaments, dents and folds.

With regard to design basis, the baskets and columns of baskets are designed to withstand certain design loads to provide assurance of ice bed geometry for proper thermal/hydraulic performance of the ice condenser during a LOCA and/or seismic transient events. To perform their design basis function, the baskets and basket columns are designed to not eject upward out of the ice bed and possibly open up bypass flow routes, or impact and damage other ice condenser equipment, or eject out of the ice condenser becoming a missile inside containment. Baskets must also not collapse causing adjacent baskets/columns to collapse, resulting in flow passageway blockage, bypass flow routes, or unanalyzed heat transfer geometries.

Top rim damage has been reviewed and determined to not be a condition that would challenge the design basis or make the ice condenser inoperable. Damage at the top end of the basket column will not promote the ejection of an ice basket or column from the ice bed or promote detrimental damage at any adjacent ice basket columns, interfacing structures or equipment. From the aspect of design basis loads, top rim damage may result in some localized deformation, but it will not cause or promote collapse of that column, or damage adjacent baskets, basket columns, interfacing structures, or equipment. Baskets with damaged top rims will meet design basis load conditions and do not represent a challenge to operability or functionality of the ice condenser.

Missing or torn ice basket ligaments are not represented or taken into consideration on any design drawings or documentation. However, missing ligaments will not promote the ejection of an ice basket or basket column from the ice bed or promote detrimental damage at any adjacent ice baskets, basket columns, interfacing structures, or equipment. The ice basket includes substantial margin in its ability to resist tensile loads from potential LOCA blowdown forces. Ice baskets with missing ligaments will have reduced structural capacity to carry lateral and compressive loads imposed under design seismic load cases. The most common locations for missing ligaments are in the mid to upper elevations of the ice basket column due to ice bed maintenance operations with vibrators.

At these higher elevations, the vertical compressive loads are not structurally significant and if the basket material were overstressed in combination with lateral loads, it is probable that the basket failure would be a small localized lateral displacement or shift in the basket mesh ligaments around the area of the missing ligaments. This localized displacement of the ice basket section would not cause the damaged basket to impact on adjacent ice basket columns. Ice baskets with missing/damaged ligaments are considered to be outside the plant design basis, and equate to inoperability in the sense that the basket damage is detrimental, however, the damage does not result in the ice condenser being incapable of performing its design function to prevent containment overpressure following a high energy line break inside containment.

Dents and folds are considered to be the bounding (worst case) condition when evaluating safety significance. Ice baskets with dents and folds will have reduced structural capacity relative to their ability to carry lateral and compressive loads which would be imposed under design basis seismic load cases. The ice condenser design basis, as described in the FSAR, states that the ice condenser internal structures, including ice baskets, are designed to be capable of withstanding

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# LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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TEXT (If more space is required, use additional copies of NRC Form (366A) (17)

## ANALYSIS OF THE EVENT (cont'd)

various load combinations including deadweight (D) plus operating basis earthquake (OBE) loads, D + design basis earthquake (DBE) loads, D + design basis accident (DBA) loads, and D + DBE + DBA loads. As noted previously, a scoping test of a sample damaged basket with test loads less than D + OBE resulted in a failure of the basket with plastic deformation. Therefore, the existence of damaged baskets that were unable to withstand design loads represented a condition outside the design basis. As noted previously, it is estimated that approximately 25 baskets in the Unit 1 ice condenser and 45 baskets in the Unit 2 ice condenser exhibit similar damage. Baskets with dents are estimated to be a similar quantity of baskets, with a final quantification to be made following inspections during the current outages.

With regard to operability, both unit's T/S require periodic inspections of ice baskets for "detrimental damage", to demonstrate operability. While the term "detrimental damage" has not been formally defined, damage, which results in a basket's inability to carry design loads, is considered detrimental. Therefore, the existence of these damaged ice baskets is considered to represent an inoperable condition for each ice condenser.

With regard to functionality, ice baskets with folds will have reduced structural capability relative to their ability to carry lateral and compressive loads, which would be imposed under design basis seismic load cases. The potential for continued ice basket failure under design basis seismic loading conditions at the fold is a function of the size of the damage, and the weight of the ice in the basket sections above the damage area. It may be postulated that the displacement of the damaged basket section under a seismic loading may be enough to cause the basket to displace laterally into an adjacent ice basket column. However, since basket sections with folds have been shown to have substantial strength as demonstrated in aforementioned testing (which bounds dents, where plastic deformation has not occurred), and since significant energy would be dissipated in the deformation of the ice basket sheet metal section and enclosed ice, it is expected that ice basket structural integrity will be maintained, so as to preclude significant collateral ice basket damage and flow passage geometry degradation. Because of this and the fact that each ice basket column is supported laterally every six feet in elevation by a structural lattice frame grid, it is highly improbable that a significant domino type failure would occur where the damaged basket collapses into an adjacent basket and so forth. Therefore, ice baskets with dents and folds are considered to be out of the design basis, and inoperable from the standpoint of compliance with the surveillance requirement related to detrimental damage, however, the damage does not result in the ice condenser being incapable of performing its design function to prevent containment overpressure following a high energy line break inside containment.

Evaluation of the different types of damage identified to date supports the conclusion that the safety significance of the condition was minimal, and that the ice condenser was capable of performing its design function.

### CORRECTIVE ACTIONS

Both unit's ice condensers have been completely thawed to allow inspection of the ice baskets for the purpose of identifying and correcting, by repair or replacement, damaged baskets.

A definition of "detrimental damage" has been developed to serve as a gage for judging whether observed ice basket damage needs repair. This definition has been incorporated into the special procedure being used to perform the current inspections. The definition will also be incorporated into design basis documents and procedures for surveillance of the ice condenser. Damage beyond the threshold of detrimental damage will be repaired or replaced. These actions will be completed prior to startup for each unit.

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	DOCKET NUMBER(2)	YEAR	LER NUMBER (6)	PAGE (3)
Cook Nuclear Plant Unit 1	50-315	98	NUMBER NUMBER	
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CORRECTIVE ACTIONS (cont'd)	III (300A) (17)			
After the thaw of each unit's ice condenser, a thorough	ah inspection of ice br	askets wil	II be performed. Althoual	h these
inspection activities will likely result in the identification consideration are not expected to change. This cond	on of additional damag	ged baske	ets, the types of basket d	amage under
Responsibility for oversight of production work - main	ntenance and surveill	ance acti <sup>,</sup>	ivities - has been transfer	red from the
Engineering department to the Maintenance departm workers to provide oversight for the ice condenser la	ient. This will allow pe	ersonnel	skilled in supervising pro-	duction
The procedures used to guide maintenance and surv	voillance activities for	the ice co	andoncer are being unar	
rewritten for use within the Maintenance department.	The upgraded proce	edures wil	Il contain improved quida	nce on
maintenance and surveillance activities to preclude fu	uture damage to ice b	askets. I	Ice condenser maintenan	ce procedures
are also being revised to require inspection of basket basket inspection will specifically include provisions f	is emptied for mainter	nance prid	or to refilling during future	outages. The
the threshold of detrimental damage.	or identifying ice basi	Cet Gamay	ge and correcting damage	e that exceeds
-				r
The training program for ice condenser workers is be on proper techniques to avoid basket damage.	ing upgraded. The up	pgraded t	training will include impro	ved guidance
These preventive actions will be in place prior to com	mencing relevant ice	condens	er activities during the cu	rrent outages
on each unit.	J. J			•
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FAILED COMPONENT IDENTIFICATION				
Not applicable			•	•
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· PRÉVIOUS SIMILAR EVENTS			• •	
None				
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