

NRC FORM 195 (2-76)		U.S. NUCLEAR REGULATORY COMMISSION		DOCKET NUMBER 50-331
NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL				FILE NUMBER
TO:  N. R. C.		FROM: Iowa Electric Light & Power Co. Cedar Rapids, Iowa Ellery Hammond		DATE OF DOCUMENT 9/10/76
				DATE RECEIVED 9/17/76
<input checked="" type="checkbox"/> LETTER	<input type="checkbox"/> NOTORIZED	PROP	INPUT FORM	NUMBER OF COPIES RECEIVED One signed
<input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> COPY	<input checked="" type="checkbox"/> UNCLASSIFIED			
DESCRIPTION  Ltr. w/attached.....furnishing Revision 1 to the DAEC Semiannual Report for the period of January 1, 1976 through June 30, 1976.  PLANT NAME: Duane Arnold		ENCLOSURE  <div style="font-size: 2em; font-weight: bold; margin: 20px 0;">ACKNOWLEDGED</div> <div style="font-size: 2em; font-weight: bold; margin: 20px 0;">DO NOT REMOVE</div>		

SAFETY	FOR ACTION/INFORMATION	ENVIRO 9/23/76	RJL
ASSIGNED AD:		ASSIGNED AD:	
<input checked="" type="checkbox"/> BRANCH CHIEF:	Lear	<input checked="" type="checkbox"/> BRANCH CHIEF:	
<input checked="" type="checkbox"/> PROJECT MANAGER:	Shea	<input checked="" type="checkbox"/> PROJECT MANAGER:	
<input checked="" type="checkbox"/> LIC. ASST.:	Parrish (Lm.)	<input checked="" type="checkbox"/> LIC. ASST.:	

INTERNAL DISTRIBUTION			
<input checked="" type="checkbox"/> REG FILE	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY &
<input checked="" type="checkbox"/> NRC PDR	HEINEMAN	<input checked="" type="checkbox"/> TEDESCO	ENVIRO ANALYSIS
<input checked="" type="checkbox"/> I & E (2)	SCHROEDER	<input checked="" type="checkbox"/> BENAROYA	DENTON & MULLER
<input checked="" type="checkbox"/> OELD		<input checked="" type="checkbox"/> LAINAS	
<input checked="" type="checkbox"/> GOSSICK & STAFF	ENGINEERING	<input checked="" type="checkbox"/> IPPOLITO	ENVIRO TECH.
<input checked="" type="checkbox"/> MIPC (4)	MACCARRY	<input checked="" type="checkbox"/> KIRKWOOD	ERNST
<input checked="" type="checkbox"/> CASE	KNIGHT		BALLARD
<input checked="" type="checkbox"/> HANAUER	SIHWEIL	<input checked="" type="checkbox"/> OPERATING REACTORS	SPANGLER
<input checked="" type="checkbox"/> HARLESS	PAWLICKI	<input checked="" type="checkbox"/> STELLO	
			SITE TECH.
PROJECT MANAGEMENT	REACTOR SAFETY	<input checked="" type="checkbox"/> OPERATING TECH.	GAMMILL
BOYD	<input checked="" type="checkbox"/> ROSS	<input checked="" type="checkbox"/> EISENHUT	STAPP
P. COLLINS	NOVAK	<input checked="" type="checkbox"/> SHAO	HULMAN
HOUSTON	ROSZTOCZY	<input checked="" type="checkbox"/> BAER	
PETERSON	CHECK	<input checked="" type="checkbox"/> BUTLER	SITE ANALYSIS
MELTZ		<input checked="" type="checkbox"/> GRIMES	VOLLMER
HELTEMES	AT & I		BUNCH
SKOVHOLT	SALTZMAN		<input checked="" type="checkbox"/> J. COLLINS
	RUTBERG		<input checked="" type="checkbox"/> KREGER

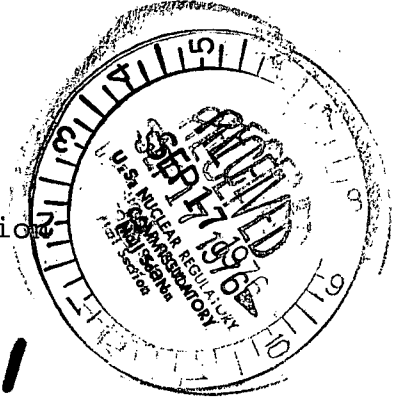
EXTERNAL DISTRIBUTION			CONTROL NUMBER
<input checked="" type="checkbox"/> LPDR: Cedar Rapids, IO.	NAT LAB:	BROOKHAVEN NAT LAB	9455
<input checked="" type="checkbox"/> TIC:	REG. VIE	ULRIKSON(ORNL)	
<input checked="" type="checkbox"/> NSIC:	IA PDR		
<input checked="" type="checkbox"/> ASLB:	CONSULTANTS		
<input checked="" type="checkbox"/> ACRS 16 CYS HOLDING/SENT: Parrish			

# IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER  
P. O. Box 351  
Cedar Rapids, Iowa 52406

September 10, 1976  
DAEC-76-289

Director, Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
1717 H Street N.W.  
Washington, D.C. 20545



**50-331**

Subject: Revision 1 to the Semiannual  
Report for DAEC - January 1, 1976  
through June 30, 1976.

File: A-118e

Dear Sir:

Please find enclosed three (3) copies of Revision 1 to the DAEC Semiannual Report for the period of January 1, 1976 through June 30, 1976.

Revision 1 consists of a change to page D-77.

Very truly yours,

*Ellery Hammond*  
Ellery Hammond, Assistant  
Chief Engineer  
Duane Arnold Energy Center

ELH/GAK/lh  
Enclosure

cc: w/o enclosure  
D. Arnold  
J. Wallace  
G. Hunt  
G. Kuehn



**REGULATORY DOCKET FILE COPY**

**9455**

# GAMMA ISOTOPIC\* ANALYSIS OF PERIPHYTON

<u>Collection Station</u>	<u>Collection Date</u>	<u>Gamma Isotopic* pCi/g (Dry)</u>
Station 2	06/07/76	< 5 (a)
Station 3	06/07/76	< 5 (a)

## GAMMA ISOTOPIC\* ANALYSIS OF BENTHIC ORGANISMS

<u>Collection Station</u>	<u>Collection Date</u>	<u>Gamma Isotopic* pCi/g (Dry)</u>
Station 3	06/09/76	<10 (a)

## SEDIMENT SAMPLES

<u>Collection Station</u>	<u>Collection Date</u>	<u>Gamma*</u>	<u>pCi/g (Dry)</u>		
			<u>K-40</u>	<u>Sr-89</u>	<u>Sr-90</u>
Lewis Access (#49)	05/12/76	<1.0	6 ± 1	<.02	<.01
Plant Intake (#50)	05/12/76	<1.0	6 ± 1	<.02	<.01
Plant Discharge (#51)	05/12/76	<1.0	6 ± 1	<.02	<.01
Cedar Rapids City Park (61)	05/12/76	<1.0	6 ± 1	<.02	<.01

(a) Insufficient sample for more sensitive analysis.

\*The spectrum is computer scanned from -20 to -2000 KeV. Specifically included are Ce-144, Ba-La-140, Cs-134, Cs-137, Zr-Nb-95, Co-58, Co-60, Mn-54, Zn-65. Naturally occurring gamma emitters such as K-40 and Ra daughters are frequently detected but not listed here. Data listed as "<" are at the 3σ level, others are 2σ. Listed concentration is for Cs-137 and may be slightly more or less sensitive for other nuclides.