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 COLLINS,S.J.

*2nd cy*

SUBJECT: Forwards Rev 13 to "DAEC UFSAR." Attachment 1 to ltr  
 summarizes chnages included in rev.Attachment 2 accurately  
 represents all physical changes made to plant & number of  
 changes made to UFSAR since previous submittal in Oct 1995.

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John F. Franz, Jr.  
Vice President, Nuclear

May 15, 1997  
NG-97-0833

Mr. Samuel J. Collins, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Mail Station P1-37  
Washington, DC 20555-0001

10 CFR 50.71(e)

Subject: Duane Arnold Energy Center  
Docket No: 50-331  
Op. License No: DPR-49  
Revision 13 of the DAEC Updated Final Safety Analysis Report  
File: A-116, A-365

Dear Mr. Collins:

The purpose of this letter is to transmit the latest revision (No. 13) of the Updated Final Safety Analysis Report (UFSAR) for the Duane Arnold Energy Center (DAEC) as required by 10 CFR Section 50.71(e). Attachment 1 to this letter summarizes the changes included in this revision. The information in Attachment 2 (10 copies enclosed) accurately represents all physical changes made to the plant and a number of changes made to the UFSAR since the previous submittal in October, 1995.

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Mr. Samuel J. Collins  
May 15, 1997  
NG-97-0833  
Page 2

This letter is true and accurate to the best of my knowledge and belief.

IES UTILITIES INC.

By *Gary D. Van Middlesworth for JFF*  
John F. Franz  
Vice President, Nuclear

State of Iowa  
(County) of Linn

Signed and sworn to before me on this 15 day of May, 1997,  
by *Gary Van Middlesworth*.



*Donna M Birkicht*  
Notary Public in and for the State of Iowa

May 24, 1999  
Commission Expires

Attachments: 1) Summary of Changes  
2) Revision 13 of the DAEC UFSAR

JFF/LBS

cc: L. B. Swenzinski w/o  
L. Root w/o  
G. Kelly (NRC-NRR)  
A. B. Beach (Region III)  
NRC Resident Office  
Docu

### Summary of Changes

This revision (13) contains changes that resulted from physical changes made to the plant since the UFSAR submittal on October 19, 1995 (NG-95-2941). These changes are described in our cyclic report pursuant to 10CFR50.59(b) which is being submitted by separate letter (NG-97-0703). Revision 13 also contains other changes from recent UFSAR change requests which were identified via IES initiatives for UFSAR improvement. These changes, when evaluated in accordance with 10 CFR 50.59(a), did not involve an unreviewed safety question. Various editorial changes were made.

Specific changes in the text are indicated by revision bars in the margin.

Revision 13, excluding editorial changes, is summarized below.

<u>Change Memo Number</u>	<u>Description of Change</u>
Change Memo 92-21	Seismic Monitors per Modification DCP 1539
Change Memo 93-17	Local Power Range Monitor (LPRM) Strings per Modification PMP 0072
Change Memo 94-33	Containment Isolation Valve List
Change Memo 94-35	Loss Of Coolant Accident (LOCA) Description per Amendment 200
Change Memo 95-11	Core Spray Locked Valves
Change Memo 95-18	"B" Well Pump Replacement per Modification PMP 0098
Change Memo 96-02	Reactor Water Cleanup (RWCU) Isolation Setpoint Change per Modification ECP 1562 and Amendment 217
Change Memo 96-05	Neutron Monitoring
Change Memo 96-06	Rod Sequence Control System (RSCS)
Change Memo 96-07	Standby Gas Treatment (SBGT) Low Flow Shutoff Setpoint
Change Memo 96-08	Masonry Walls per Modification ECP 1563
Change Memo 96-09	Changes to Table 3.2 Pipeclass
Change Memo 96-10	Spent Fuel Pool (SFP) Rerack per Amendment 195
Change Memo 96-11	Rod Block Monitor Flow Bias, Rod Worth Minimizer, Main Steam Line (MSL) Radiation Monitor Scram, MSL Transmitters and Safety Relief Valve Tailpipe Pressure Switches
Change Memo 96-13	Offgas Piping
Change Memo 96-14	Organizational Changes
Change Memo 96-15	Oily Waste Sump Pump Lock
Change Memo 96-16	Reactor Pressure Pointer Assembly
Change Memo 96-17	Reference Leg Outside Drywell
Change Memo 96-19	MSL Radiation Monitors
Change Memo 96-20	Diesel Generator Horsepower Rating
Change Memo 96-21	Makeup Demineralizer Truck
Change Memo 96-22	Net Positive Suction Head
Change Memo 96-23	Draining and Flushing Residual Heat Removal (RHR) System

Change Memo 96-24	Emergency Operating Procedures
Change Memo 96-25	Low Pressure Coolant Injection Valves
Change Memo 96-26	Testable Check Valves
Change Memo 96-27	Correct Typographical Error
Change Memo 96-28	SBGT Heater, Temperature Switches per Modification ECP 1569
Change Memo 96-31	Jockey Pump Accumulator
Change Memo 96-33	Inservice Inspection (ISI) Program, Third 10-year Interval
Change Memo 96-35	High Energy Line Break (HELB) Analysis per Modification DCP 1533
Change Memo 96-36	External Hazards per IPEEE
Change Memo 96-37	Hydrogen Water Chemistry (HWC) Injection Rate per Modification PMP 100
Change Memo 96-38	Corporate Emergency Plan
Change Memo 96-39	Turbine Building Flooding
Change Memo 96-40	RHR/SFP Cooling System Operation
Change Memo 96-41	Safe Load Path
Change Memo 96-43	Delete Reference to NFPA Code
Change Memo 96-44	ALARA Practices
Change Memo 96-46	ALARA Practices
Change Memo 96-47	ALARA Practices
Change Memo 96-48	ALARA Practices
Change Memo 96-50	Table Renumbering per QA Assessment and NEP-93-0345
Change Memo 96-52	10CFR20 Requirements
Change Memo 96-54	Feedwater Controllers per Modification ECP 1566
Change Memo 96-56	Anticipated Transient Without Scram-Alternate Rod Insertion Time
Change Memo 96-57	Decommission Offgas Reheater per Modification ECP 1567
Change Memo 96-58	Appendix R Rebaselining
Change Memo 96-59	Drywell Conditions following HELB
Change Memo 96-60	Rod Worth Minimizer
Change Memo 96-61	Combine Figures 9.1-29 and 9.1-35
Change Memo 96-62	Delete Reference to Feedwater Turbines
Change Memo 96-63	Emergency Core Cooling System Testing
Change Memo 96-64	De-energize Bus on Loss of Voltage
Change Memo 96-66	Thermo-Lag Removal per Modification ECP 1566
Change Memo 96-68	Noble Metal Chemical Addition per Amendment 218
Change Memo 96-69	Testing of Leak Detection and Drywell Pressure
Change Memo 96-70	Inservice Inspection and Vessel Materials Program
Change Memo 96-71	Emergency Service Water (ESW) Makeup to SFP
Change Memo 96-73	Reactor Core Characteristics
Change Memo 96-74	Reference to HWC Drawing
Change Memo 96-75	Reactor Protection System
Change Memo 96-76	Plant Page Power Supplies per Maintenance Action EMA 31969
Change Memo 96-77	Refueling Operations
Change Memo 96-78	Add Identified Leakage Reference
Change Memo 96-79	MCHFR Acronym
Change Memo 96-82	Venting Noncondensable Gases

Change Memo 96-84	High Pressure Coolant Injection (HPCI) Turbine Shutdown Signals per QA Assessment
Change Memo 96-85	Noble Metal Chemical Injection per Modification ECP 1573
Change Memo 96-86	Scramming from Outside Control Room
Change Memo 96-87	Main Steamline Isolation Valve Leakage
Change Memo 96-88	Main Steamline Isolation Valve High Radiation
Change Memo 96-89	Alternate Examination of Core Spray Sparger
Change Memo 96-90	Rod Block Monitor Modifications per Modification ECP 1577
Change Memo 96-91	Environmental Qualification Description
Change Memo 96-93	NUREG-0619 Commitments
Change Memo 96-94	Core Spray Description
Change Memo 96-95	Core Spray Description
Change Memo 96-96	General Service Water
Change Memo 96-97	Circulating Water Alarm and Pump Trip
Change Memo 96-98	Reactor Building Drains
Change Memo 96-99	Suppression Pool Temperature Requirements
Change Memo 96-101	Update UFSAR - Core Operating Limits Report
Change Memo 96-102	Emergency Planning Training
Change Memo 96-104	Valve Stroke Time
Change Memo 96-105	RHR Piping Low Pressure Switch
Change Memo 96-106	Operator Manual Actions
Change Memo 96-107	Organizational Change
Change Memo 96-111	Maximum Allowed Core Spray Flow
Change Memo 96-112	Reactor Heatup/Cooldown Procedures
Change Memo 96-113	Turbine Procedure and Logic
Change Memo 96-114	Control Rod Drive Time Delay and Plant Process Computer
Change Memo 96-116	LPRM, Average Power Range Monitor, Rod Block Monitor and Traversing Incore Probe
Change Memo 96-117	Air Compressor Building Description
Change Memo 96-118	Electrohydraulic Control
Change Memo 96-119	Standby Liquid Control Discussion
Change Memo 96-120	RHR Service Water, ESW, SBT
Change Memo 96-122	Identify Historical Information
Change Memo 96-123	Option B per Amendment 219
Change Memo 96-124	Breaker 52-303 Indication per Modification DCP 1553
Change Memo 96-125	Appendix R Rebaselining per Document Change DDC 3151
Change Memo 97-001	Reactor Vessel Head Flange Leak Detection
Change Memo 97-002	Storage Equipment
Change Memo 97-003	Vessel Servicing Equipment
Change Memo 97-004	HPCI Differential Pressure Description
Change Memo 97-006	FSAR Reference
Change Memo 97-007	Containment Atmosphere Dilution System
Change Memo 97-008	Control Rod Drive
Change Memo 97-010	Process Radiation Monitor
Change Memo 97-011	Loss of 250V Battery
Change Memo 97-012	Makeup Demineralizer
Change Memo 97-013	RWCU System, Solka Flocc

Change Memo 97-014	Filter Demineralizer
Change Memo 97-015	Declaring Main Steamline Isolation Valve Inoperable
Change Memo 97-016	Condensate Storage Tank Portable Sump Pump
Change Memo 97-017	Average Drywell Temperature
Change Memo 97-019	Editorial Changes to Equations
Change Memo 97-020	Heating, Ventilation, and Air Conditioning
Change Memo 97-021	Core Spray Flow and Pressure
Change Memo 97-022	Emergency Planning Updates
Change Memo 97-023	Mechanical Vacuum Pump Trip on High Radiation per Amendment 182
Change Memo 97-024	Inverter/Regulating Transformer
Change Memo 97-025	MO1908 Bypass Line per Modification ECP 1578
Change Memo 97-026	Emergency Planning Updates
Change Memo 97-027	Leakage to Secondary Containment
Change Memo 97-028	Liquid Sodium Hypochlorite System
Change Memo 97-029	Control Rod Movement
Change Memo 97-030	DAEC Switchyard per NEI 96-05 Assessment Initiative
Change Memo 97-031	161KV Disconnect Switch per Maintenance Action EMA A32200
Change Memo 97-032	Fuel Rack Stresses
Change Memo 97-033	Source Range Monitor/Rod Withdrawal Startup Sequence
Change Memo 97-034	Regulatory Guide Commitments
Change Memo 97-035	Safety Committee Audits
Change Memo 97-037	Main Steamline Isolation Valve Leakage Treatment System
Change Memo 97-038	Control Rod Drive Charging Pressure Monitoring
Change Memo 97-039	Figure 11.5-5 Removal per Document Change DDC 3033
Change Memo 97-041	Add Valve Numbers for Clarity
Change Memo 97-042	Hydraulic Control Unit
Change Memo 97-043	Reactor Level Instrumentation and Control Rod Drive
Change Memo 97-044	Standby Liquid Control
Change Memo 97-045	Neutron Monitoring, Reactor Protection System and Traversing Incore Probe
Change Memo 97-046	Simulator Certification in 1991
Change Memo 97-047	Primary Containment Isolation System per NEI 96-05 Assessment Initiative
Change Memo 97-048	Correct Typographical Error per NEI 96-05 Assessment Initiative
Change Memo 97-052	Recirculation Pump Speed
Change Memo 97-053	MSL Radiation Monitors
Change Memo 97-054	Correct Typographical Error
Change Memo 97-055	Re-issue Figure 6.2-25
Change Memo 97-056	Incorporate UFSAR Change Memo 87-09
Change Memo 97-058	Incorporate UFSAR Chapter 17.2 from Revision 17 of QA Manual