

AUXILIARY ELECTRIC EQUIPMENT ROOM
 TEMPERATURE TRANSIENTS DURING
 STATION BLACKOUT

Commonwealth Edison Company
 LaSalle Units 1 & 2

Project File No. 8406-27

WIN-0451
 SYS: AP

NSLD

Calc. No. 3C7-0289-001

Date April 7, 1989

Safety Related YES

Project No(s). 8406-27

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CALCULATION

REVISION SUMMARY SHEET

REVISION NO.	PREPARED BY/DATE	REVIEWED BY/DATE	APPROVED BY/DATE	REVISED PAGE NOS.
0	Richard Cusny 3-9-89	Thomas J. Kane 04-07-89	John W. Ahrens April 7, 1989	N/A
1	Steve J. Kelly 5/11/92	Tank Lal 5.11.92	Robert J. Peterson 5-11-92	1-18, A4, A12, A11 81-897, A11 APP3, A24, APP, A20

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Prepared by *Lester J. Bely* Date 5/11/92
Reviewed by *Tank Lali* Date 5.11.92
Approved by *Robert J. Peterson* Date 5/11/92

Auxiliary Electric Equipment Room Temperature
Transient during Station Blackout

Commonwealth Edison Company
La Salle Units 1 & 2
Project No. 8406-27
Project File No. 8406-27
WIN 1218

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1.0 EXCEPTIONS TO VERIFIED DATA

All information used in this calculation was obtained from HVACD, EPED, AED, and approved S&L drawings. These data are therefore considered to be verified except for the following:

No exceptions.

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2.0 COMPUTER PROGRAMS

The transient calculations reported herein were done using S&L computer Program COMPARE/MODT (03.7.322-1.0), which is described in Reference 1. Validation documentation for COMPARE/MODT is maintained in the S&L Computer Software Library.

3.0 PURPOSE

The purpose of this analysis is to calculate the transient air temperatures in the Auxiliary Electric Equipment Rooms (AEERs) following a postulated station blackout (SBO) event. The 4 AEERs are at floor elevation 731' -0" between column rows (13) and (17), and between column rows (J) and (N).

The purpose of Revision 1 is to:

1. Adjust heat loads in the 4 AEER'S.
2. Modify initial temperatures of all nodes.
3. Modify final temperatures for nodes 5-14.

4.0 ANALYTICAL MODEL

The model used consists of 15 nodes, 4 paths, 32 walls, 1 blower characteristic curve, and 4 blowdown functions. The paths and blower curves model one-way venting of the AEERs as their atmospheres heat up. The blowdown functions model the heat loads in the AEERs. Nodes 1 through 4 represent the 4 AEERs, as follows (items in parentheses are column designations):

- Node 1: south AEER of Unit 1, which is located between (13) and (13).7 and between (J) and (N);
- Node 2: north AEER of Unit 1, which is located between (13).7 and (15) and between (J) and (N);
- Node 3: south-east AEER of Unit 2, of "L" shape, and located between (J) and (N) from (15) to (16), and between (J) and (M) from (16) to (17); and
- Node 4: north-west AEER of Unit 2, between (16) and (17) and between (M) and (N).

All of Nodes 5 through 12 represent rooms adjacent to the four AEERs with floor elevation 731' -0". Nodes 13 and 14 represent the cable spreading area just above the AEERs of Units 1 and 2, respectively. Node 15 represents the offices and laboratories beneath the AEERs.

Figure 1 is a schematic diagram of the nodes and walls. In it are shown the left hand face (LHF) and the right hand face (RHF) connections of the walls to the nodes. Walls 1 through 11 are 12-inch (nominal) masonry firewall sidewalls, which surround the set of AEERs. Wall 12 is an 8-inch (nominal) masonry firewall sidewall which separates nodes 1 and 2. Wall 13 is a 12-inch (nominal) masonry firewall sidewall between nodes 2 and 3. Wall 14 is an 8-inch (nominal) masonry firewall sidewall

between nodes 3 and 4. The actual thicknesses of the masonry firewalls are 3/8 inch less than their nominal thicknesses. Walls 15, 16, 17 and 18 are the ceiling walls of nodes 1, 2, 3 and 4, respectively. These ceiling walls are 12-inch thick reinforced concrete. Walls 19, 20, 21 and 22 are the floor walls of nodes 1, 2, 3 and 4, respectively. Walls 19, 20 and 22 are 9-inch thick reinforced concrete. Wall 21 has thicknesses of 9, 12 and 24 inches. A preliminary computer run indicates the 24-inch thickness provides the conservative answer, so it is used in the model. Walls 23 through 26 model doors in the perimeter of the AEERs. Walls 27 through 32 model doors in the walls between the AEERs. Walls 28 and 31 are rolling doors.

Heat generation rates in the active nodes (1 through 4) are modeled as "blowdowns" (1 through 4, respectively). Each of these blowdowns is characterized by a fixed energy input rate, but zero mass flow.

Heat transfer to and from the walls of the model is assumed to be by natural convection and by radiation. Vapor-to-surface radiation is accounted for.

The first 4 paths allow flow to leave (but not enter) each AEER as its pressure increases above atmospheric.

5.0 ASSUMPTIONS AND INFORMATION

1. The air volume in each AEER is assigned as 90 percent of the gross volume, to conservatively account for the volume of equipment in the room. The gross volumes are calculated in Appendix A based on Ref. 7.
2. The rate of heat generation in the AEERs is given via Ref. 4 as follows:

<u>Btu/sec</u>	<u>Room</u>
3.593	South AEER of Unit 1
11.64	North AEER of Unit 1
13.58	South-east AEER of Unit 2
2.133	North-west AEER of Unit 2

The required conversion of units is noted in Appendix A.

3. According to Reference A, the following temperatures were used:

Node	Description	Initial Relative Humidity	Initial Temp	Temperature of			
				2.0 HR	3.0 HR	4.0 HR	
1	AEFR 1	20%	90		Calculated		
2	AEER 2	20%	90		Calculated		
3	AEER 3	20%	90		Calculated		
4	AEER 4	20%	90		Calculated		
5	Cable Spreading RM 201	47%	102	108.9	115.8	122.6	129.5
6	Stair A3	34%	106	107.2	108.5	109.7	110.9
7	Cable Spreading RM 212	47%	102	103.9	105.8	107.8	109.7
8	Battery Electric RM 118	36%	104	104	104	104	104
9	Riser Aisle 203	36%	104	120.7	137.4	154.1	170.8
10	Riser Aisle 205	36%	104	104	104	104	104
11	Switchgear RM 202	36%	104	118.6	133.3	147.9	162.5
12	Battery RM 202	36%	104	118.6	133.3	147.9	162.5
13	Cable Spreading Area Above 1&2	36%	104	104.5	105.0	105.4	105.9
14	Cable Spreading Area Above 3&4	36%	104	105.2	106.4	107.6	108.8
15	Offices and Labs Below	20%	75	75.2	76.2	76.7	77.3

4. Relative humidities at 1.0, 2.0, 3.0 and 4.0 hours were calculated assuming constant absolute humidity. The absolute humidity was determined from the initial data in Reference 5. These calculations can be found in Appendix B.
 5. Natural convection and vapor-to-surface radiation are assumed as heat transfer mechanisms between the atmosphere in the AEERs and adjacent wall surfaces.
 6. No credit is taken for augmentation of wall surface areas due to the presence of columns and beams in a room. Calculation of the wall areas is presented in Appendix A, based on Ref. 7.
 7. The properties of reinforced concrete are taken from Ref. 3 as follows:
 - Thermal conductivity = $0.92 \text{ Btu}/(\text{hr}\cdot\text{ft}\cdot^{\circ}\text{F})$
 - Density = $145 \text{ lbm}/(\text{cu. ft})$, and
 - Heat capacity = $0.156 \text{ Btu}/(\text{lbm}\cdot^{\circ}\text{F})$.
 8. The properties of firewall material were determined in Appendix A from information provided in Ref. 6. The properties thus obtained were found to depend on the wall thickness considered, as follows:
 - For a 12-inch (nominal thickness) wall:
 - Thermal conductivity = $0.300 \text{ Btu}/(\text{hr}\cdot\text{ft}\cdot^{\circ}\text{F})$
 - Density = $53.7 \text{ lbm}/(\text{cu. ft})$ and
 - Heat capacity = $0.156 \text{ Btu}/(\text{lbm}\cdot^{\circ}\text{F})$ (assumed).
 - For the 8-inch (nominal thickness) wall:
 - Thermal conductivity = $0.203 \text{ Btu}/(\text{hr}\cdot\text{ft}\cdot^{\circ}\text{F})$
 - Density = $53.5 \text{ lbm}/(\text{cu. ft})$, and
 - Heat capacity = $0.156 \text{ Btu}/(\text{lbm}\cdot^{\circ}\text{F})$ (assumed).
- For both firewall thicknesses, the actual thickness is 3/8 inch less than the nominal thickness.

9. The properties of the doors were determined in Appendix A from information provided in Ref. 8. Each rolling door is modeled, conservatively, as a single sheet of steel 0.050-inch thick. All other doors are modeled, conservatively, as of 18-gauge honeycomb construction.

10. All doors remain closed throughout the duration of the SBO.

6.0 RESULTS

The transient temperatures as calculated in the AEERs during the SBO are presented in Figure 2. At 4 hours after the start of the SBO, the temperatures are:

<u>Temperature, °F</u>	<u>Room Description</u>
At 4 hours	
110.0	South AEER of Unit 1 (node 1)
119.7	North AEER of Unit 1 (node 2)
119.7	South-east AEER of Unit 2 (node 3)
108.6	North-west AEER of Unit 2 (node 4)

After 4 hours, the temperatures of all 4 AEERs are still increasing. These results are based on a model designed to cause the temperature of the hottest AEER to be conservatively high throughout the SBO transient. However, the model is not specifically intended to cause the cooler AEERs to have a conservatively high temperature. For this reason it is recommended that the envelope of the curves of Figure 2 be considered to apply to all 4 AEERs. An additional reason favoring use of the envelope is that doors between hotter and colder AEERs may be opened during the SBO.

7.6 DISCUSSION OF RESULTS

The temperature of the hottest AEER during the SBO transient is considered to be conservatively high for the following reasons:

1. Equipment-to-wall-surface radiation within the AEERs is not included in the model. It would enhance heat transfer away from the AEERs throughout the transient.
2. Use of the lightest door constructions and firewall materials from Refs. 8 and 6 yield correspondingly low wall conductance values and wall capacitance values. Both of these effects tend to maximize the temperatures in the hottest AEERs.
3. Since the model assumes that all doors remain closed during the SBO, doors used for operator access to the AEERS should involve the lowest possible temperature differential and be open only as long as necessary. Door 265 should be used as a starting point to enter any of the AEERS. The other AEERS can then be accessed by employing doors 612 or 611, 261, and 854, which are internal to the AEER area, as necessary.

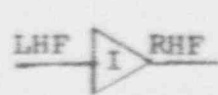
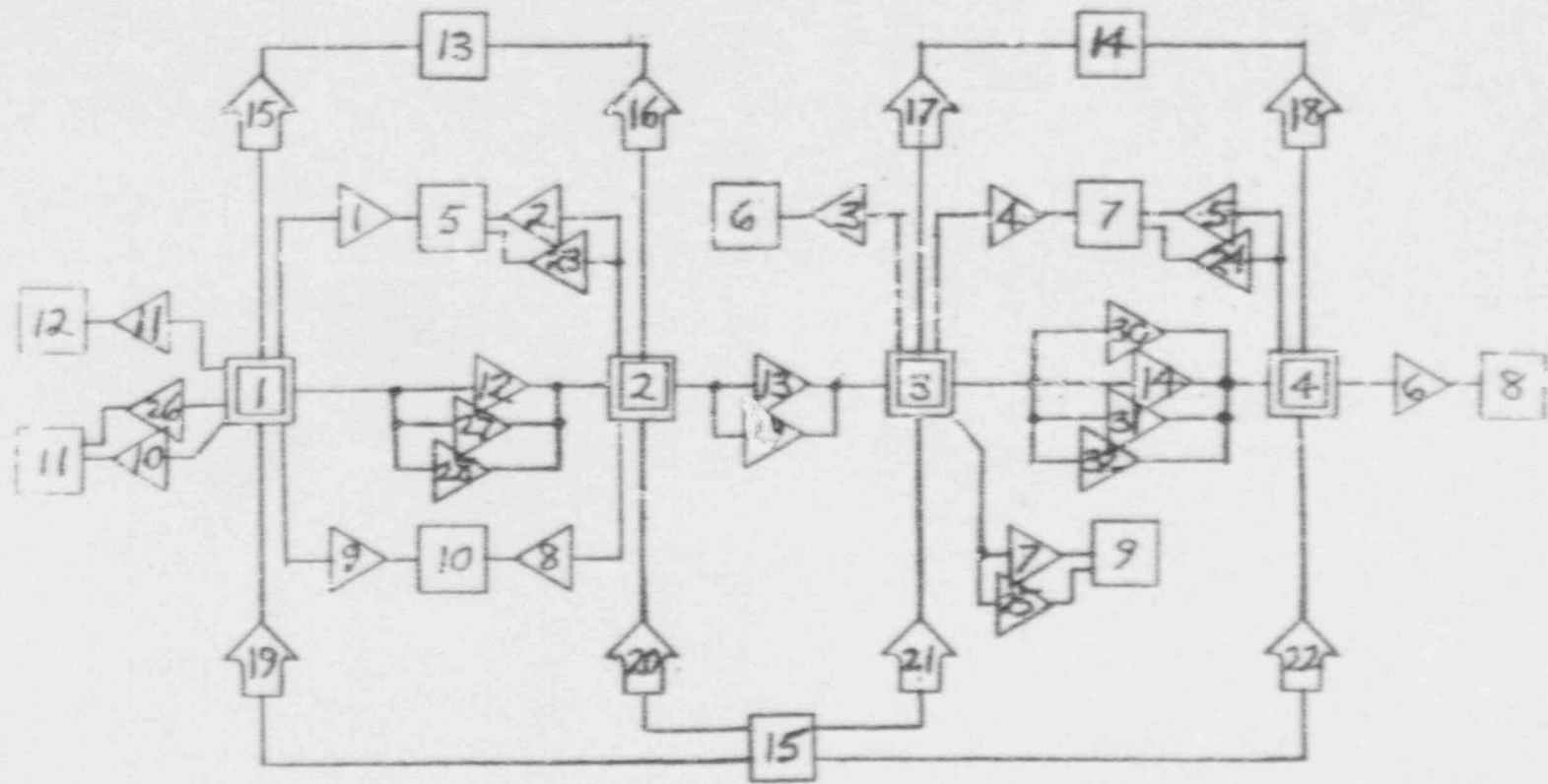
8.0 REFERENCES

1. User's Manual for COMPARE/MODT (S&L Program No. 03.7.322-1.0), "A Computer Program for the Transient Calculation of a System of Volumes Connected by Flowing Vents"
2. "Heat Sink Thermophysical Properties", Table- 2 of Branch Technical Position CSB 6-1 of Standard Review Plan 6.2.1.5, NUREG-0800, Rev. 2.
3. DIT No. LS EPED-0051-3 of 05-05-92.
4. DIT No. LS-HVAC-0033-04 of 05-11-92.
5. DIT No. LAS-ADD-003 of 03-02-89.
6. Approved S&L Drawings for La Salle 1 & 2:

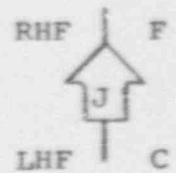
<u>Number</u>	<u>Revision</u>	<u>Number</u>	<u>Revision</u>
A-64	I	A-488	K
A-186	AN	A-695	C
A-187	AM	S-272	AC
A-212	J	S-573	AL
A-258	F	S-575	AB
A-447	P	S-636	AM

<u>Number</u>	<u>Revision</u>	<u>Number</u>	<u>Revision</u>
A-456	R	S-1071	AH
A-462	W	S-1073	AE
A-481	E		

7. DIT No. LAS-ADD-004 of 03-16-89.
8. Table 1 on p. 23.3 and Table B on p. 26.11 of "ASHRAE Handbook, 1985, Fundamentals," American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc., Atlanta, 1985.
9. Perry, R. H., editor-in-chief, "Engineering Manual," Second Edition, McGraw-Hill Book, NY, 1967.
10. McAdams, W. H., "Heat Transmission," Third Edition, McGraw-Hill Book Co., Inc., NY, 1954.
11. Ozisik, M. N., "Heat Transfer, A Basic Approach," McGraw-Hill Book Co., Inc., NY, 1985.
12. Idelchik, I. E., "Handbook of Hydraulic Resistance," Second Edition, Hemisphere Publishing Corp., NY, 1986.
13. "NUMARC 87-00, Guidelines and Technical Bases for Numarc Initiatives Addressing Station Blackout at Light Water Reactors," Nuclear Management and Resources Council, Inc., Revision 1, August 1991.



Vertical wall I
 LHF = Left hand face
 RHF = Right hand face



Horizontal wall J
 F = floor surface
 C = ceiling surface



Active node K

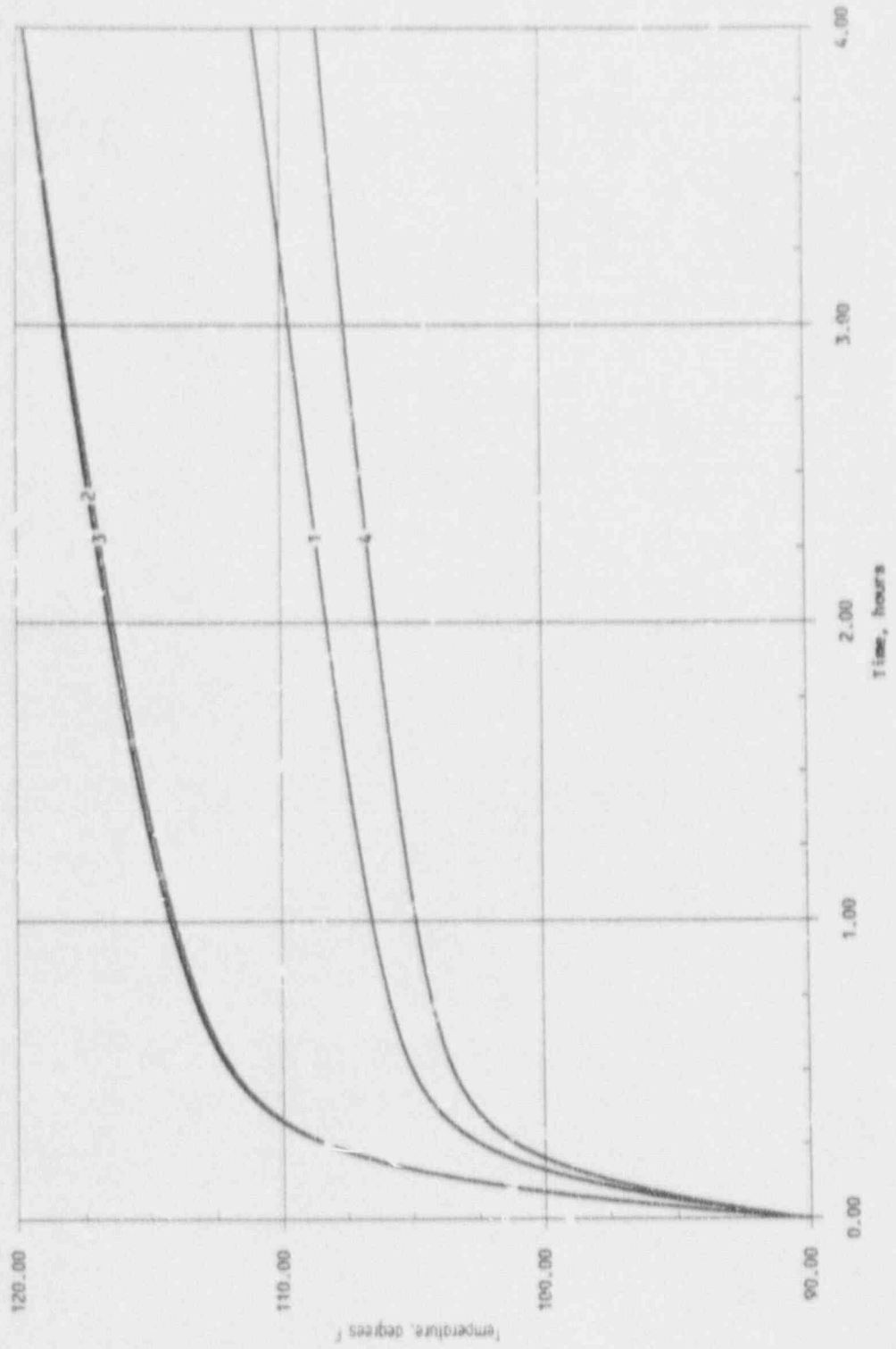


Boundary node L

Figure 1: Schematic Diagram of Nodes and Walls

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AEER TRANSIENT TEMPERATURES FOLLOWING A STATION BLACKOUT



REVIEW METHOD SHEET

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This calculation has been reviewed by me according to the method(s) checked below.

1. Computer Aided Calculations

a	Review to determine that the computer program(s) has been validated and documented, is suitable to the problem being analyzed, and that the calculation contains all necessary information for reconstruction at a later date.
b	Review to determine that the input data as specified for program execution is consistent with the design input, correctly defines the problem for the computer algorithm and is sufficiently accurate to produce results within any numerical limitations of the program.
c ✓	Review to verify that the results obtained from the program are correct and within stated assumptions and limitations of the program and are consistent with the input.
d	Review validation documentation for temporary changes to listed, or developmental, or unique single application programs, to assure that methods used adequately validate the program for the intended application.
e ✓	Review of code input only, since the computer program has sufficient history of use at Serpent & Lund, in similar calculations.
f ✓	Review arithmetic necessary to prepare code input data.
g	Other:

2. Hand Prepared Design Calculations

a	Detailed review of the original calculations.
b	Review by an alternate, simplified, or approximate method of calculation.
c	Review of a representative sample of repetitive calculations.
d	Review of the calculation against a similar calculation previously performed.

3. Revisions

a ✓	Editorial changes only.
b	Elimination of unapproved input data without altering calculated results.
c	Other:

4. Other

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Reviewer <i>Tauk Lal</i>	Date <i>5.11.92</i>
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Project No. 9012 20

Prepared by Lester J. Bly Date 5/11/92
Reviewed by Tony Gal Date 5.11.92
Approved by Robert J. Peterson Date 5-11-92

Appendix A

Hand Calculations

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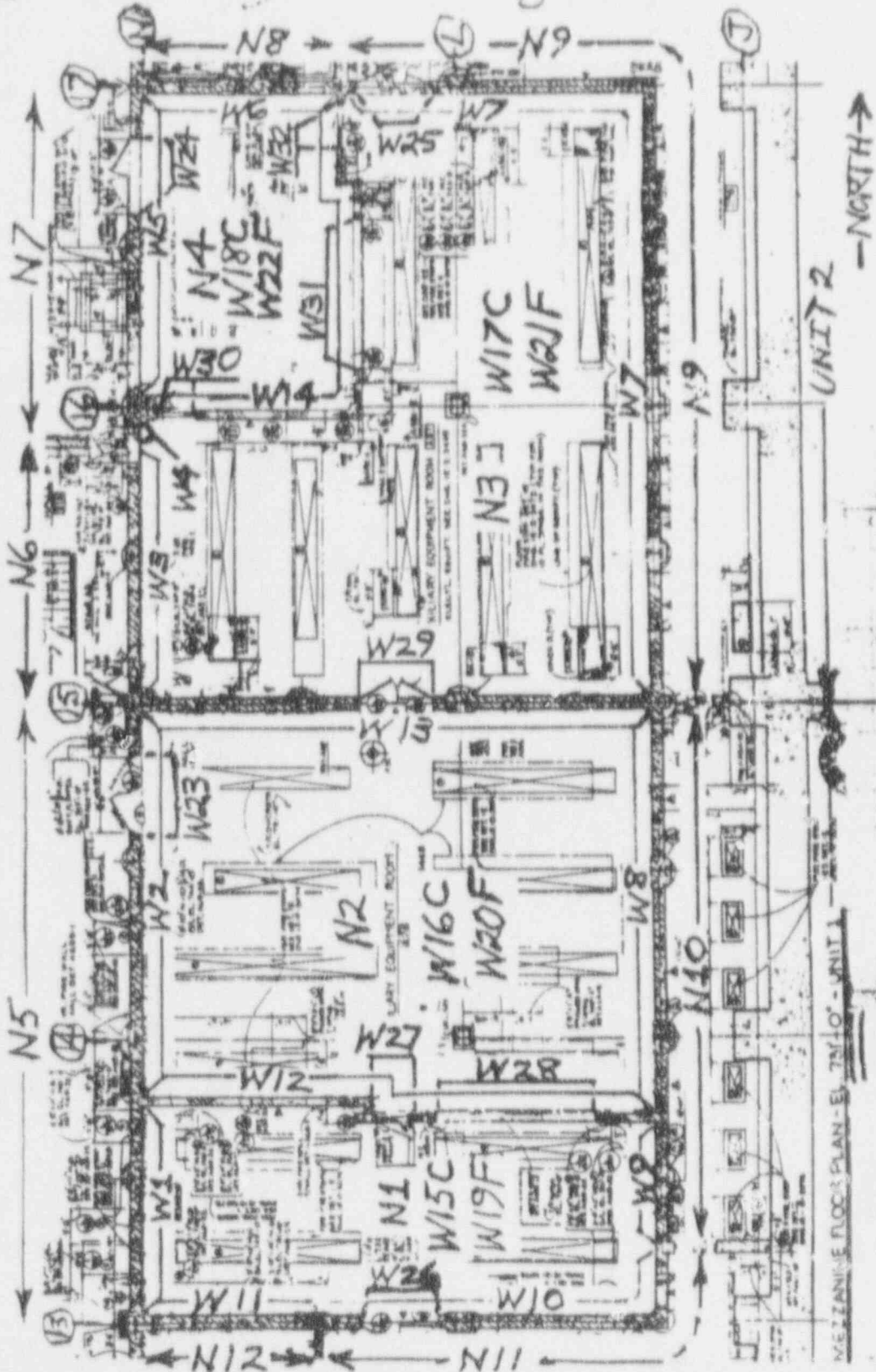
<u>Page</u>	<u>Part</u>	<u>Description</u>
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A3	2	Node Volumes of Active Nodes (1-4)
A4	3	Heat Generation Rates in Nodes 1-4
A4	4	Wall Areas (A_w) & Thicknesses (t_w)
A8	5	Properties of Wall Materials
A9	6	Properties of Door "Walls" (<u>Non</u> -Rolling Type)
A11	7	Properties of Rolling Door "Walls"
A12	8	Humidity Considerations
A13	9	Mean beam length Calculations
A14	10	Radiation to/from Surroundings from Outer Wall Surfaces of the AEERS

Client <i>CECF</i>	Prepared by <i>R. Curry</i>	Date <i>8-27-89</i>
Project <i>WAS 1 & 2</i>	Reviewed by	Date
Proj. No. <i>8406-27</i> Equip. No.	Approved by	Date

Client <i>CECF</i>	Prepared by <i>R. Curry</i>	Date <i>8-27-89</i>
Project <i>WAS 1 & 2</i>	Reviewed by	Date
Proj. No. <i>8406-27</i> Equip. No.	Approved by	Date

Part 1: Identification of Nodes & Walls

*N15 is office area below nodes 1-4.
N13 is unit 1 cable spreading area above nodes 1 & 2.
N14 is unit 2 cable spreading area above nodes 3 & 4.*



N1X = nodes nos. N3; WX = wall nos. N6 elev. 49'0"
Cable spreading room has "C" of AEERA (W15-W18).
"C" indicates "cable spreading wall" of AEERA (W15-W18).
"F" indicates "floor wall" of AEERA (W19-W22).
W1-W14 are subdivided by W23-32 also doors of AEERA

Client	<u>CECO</u>
Project	<u>LAS 1 & 2</u>
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Prepared by	<u>R. Curry</u>	Date	<u>8-27-89</u>
Reviewed by		Date	
Approved by		Date	

Part 2: Node Volumes of Active Nodes (1-4)

H = Height of nodes 1-4, ft (Dwgs. of Ref. 7)

$$= (749'0" - (6'6" - 731'0")) \approx 17.0 \text{ ft}$$

$V_{N1,g}$ = Vol. of node 1, gross, $\text{ft}^3 = A_{N1,plan} \times H$ (A-186)

$$A_{N1,plan} = (8.33)^2 [1.85 \times 2.80 + 2.03 \times 2.15] = 662.3 \text{ ft}^2$$

$$V_{N1,g} = 662.3 \times 17.0 \approx 11259.1 \text{ ft}^3 \quad [8.33 \text{ ft} \text{ node height}]$$

$V_{N2,g}$ = $A_{N2,plan} \times H$ = Vol. of node 2, gross, ft^3 (A-186)

$$A_{N2,plan} = (8.33)^2 [3.90 \times 2.75 + 3.73 \times 2.20] = 1313.6 \text{ ft}^2$$

$$V_{N2,g} = 1313.6 \times 17.0 \approx 22331.2 \text{ ft}^3$$

$V_{N3,g}$ = Vol. of node 3, gross, $\text{ft}^3 = A_{N3,plan} \times H$ (A-187)

$$A_{N3,plan} = (8.33)^2 [5.24 \times 5.00 - 3.18 \times 2.18 + .8 \times .16] = 1554.0 \text{ ft}^2$$

$$V_{N3,g} = 1554.0 \times 17.0 = 26418.0 \text{ ft}^3$$

$V_{N4,g}$ = Vol. of node 4, gross, $\text{ft}^3 = A_{N4,plan} \times H$ (A-187)

$$A_{N4,plan} = (8.33)^2 [3.07 \times 2.08 - .90 \times .17] = 432.5 \text{ ft}^2$$

$$V_{N4,g} = 432.5 \times 17.0 \approx 7352.0 \text{ ft}^3$$

Net node volumes are taken as 90% of gross volumes to account for equipment in the rooms:

$$V_{N1,net} = 10133.2 \text{ ft}^3, V_{N2,net} = 20098.1 \text{ ft}^3, V_{N3,net} = 23776.2 \text{ ft}^3, V_{N4,net} = 6617.0 \text{ ft}^3$$

Client <u>CECC</u>
Project <u>WAS 1 & 2</u>
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Prepared by <u>R. Curry</u>	Date <u>8-27-89</u>
Reviewed by _____	Date _____
Approved by _____	Date _____

Part 3: Heat Generation Rates in Nodes 1-4
Via Ref. 4, the heat generation rates in nodes 1-4 are $\{3413 \frac{\text{Btu/hr}}{\text{Watt}}\}$:

Node Number	HEAT GENERATION RATE		
	WATTS	BTU/h	BTU/S
1	3790	12 935	3.593
2	12 275	41 895	11.64
3	14 325	48 891	13.58
4	2 250	7 679	2.133

Part 4: Wall areas (A_w) & thicknesses (t_w)

$$A_{W1} = 8.33 \times 2.00' \times 17.0 = 283.2 \text{ ft}^2; \quad t_{W1} = 11.625''$$

$$A_{W2, \text{gross}} = 8.33 \times 3.66' \times 17.0 = 518.3 \text{ ft}^2; \quad t_{W2} = 11.625''$$

$$A_{W3, \text{gross}} = 8.33 \times 2.40' \times 17.0 = 339.9 \text{ ft}^2; \quad t_{W3} = 11.625''$$

$$A_{W4, \text{gross}} = 8.33 \times 0.2' \times 17.0 = 28.3 \text{ ft}^2; \quad t_{W4} = 11.625''$$

$$A_{W5, \text{gross}} = 8.33 \times 2.90' \times 17.0 = 410.7 \text{ ft}^2; \quad t_{W5} = 11.625''$$

$$A_{W6, \text{gross}} = 8.33 \times 1.80' \times 17.0 = 254.9 \text{ ft}^2; \quad t_{W6} = 11.625''$$

$$A_{W7, \text{gross}} = 8.33 (2.97 + 5.85) \times 17.0 = 1249.0 \text{ ft}^2; \quad t_{W7} = 11.625''$$

$$A_{W8, \text{gross}} = 8.33 \times 3.90' \times 17.0 = 502.3 \text{ ft}^2; \quad t_{W8} = 11.625''$$

Client <u>CECO</u>
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Prepared by <u>R. Curry</u>	Date <u>8-27-89</u>
Reviewed by _____	Date _____
Approved by _____	Date _____

Part 4 (contd.)

- $A_{W9, gross} = 8.33 \times 1.15' \times 17.0' = 162.9 \text{ ft}^2$; $t_{W9} = 11.625''$
- $A_{W10, gross} = 8.33 (0.60' + 3.20') \times 17.0' = 538.1 \text{ ft}^2$; $t_{W10} = 11.625''$
- $A_{W11, gross} = 8.33 \times 1.50' \times 17.0' = 212.4 \text{ ft}^2$; $t_{W11} = 11.625''$
- $A_{W12, gross} = 8.33 (2.75' + 10' + 2.12') \times 17.0' = 703.8 \text{ ft}^2$; $t_{W12} = 7.625''$
- $A_{W13, gross} = 8.33 \times 4.83' \times 17.0' = 684.0 \text{ ft}^2$; $t_{W13} = 11.625''$
- $A_{W15, gross} = 8.33 (1.9' + 2.15' + 0.6' + 8.0') \times 17.0' = 695.3 \text{ ft}^2$; $t_{W15} = 7.625''$

Floor (F) wall & ceiling (C) wall areas are taken equal to the corresponding "plan" areas of p. A3 =

- $A_{W15} = A_{W19} = A_{N1, plan} = 662.3 \text{ ft}^2$
- $A_{W16} = A_{W20} = A_{N2, plan} = 1313.6 \text{ ft}^2$
- $A_{W17} = A_{W21} = A_{N3, plan} = 1554.0 \text{ ft}^2$
- $A_{W18} = A_{W22} = A_{N4, plan} = 432.5 \text{ ft}^2$

All C walls have same thickness: $t_{W15} = t_{W16} = t_{W17} = t_{W18} = 12''$
(see S-575 & S-1073)

For F walls: $t_{W19} = t_{W20} = t_{W22} = 9''$, but W21 has 3 thicknesses: 9", 12" & 24". For conservatism, $t_{W21} = 24''$ is used.
(See S-573 & S-1071.)

Client <u>CECO</u>	Prepared by <u>R. Curry</u>	Date <u>R-27-89</u>
Project <u>LAS 1 & 2</u>	Reviewed by _____	Date _____
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Part 4 (contd.)

Door areas (A_D) for doors in side walls of AEEERs:
 (see A-447, A-456, A-452, A-481, A-488)

In wall	Door no. or "A" design.	Door dimensions	Thermal area ft ²	EA ft ²	Door wall no.
W10	259	2-3'0" x 7'10"	.1458	47.0	W26
W13	261	2-3'0" x 7'10"		47.0	W29
W2	262	2-3'0" x 9'2"		55.0	W23
W5	263	3'0" x 7'2"		21.5	W24
W7	266	2-3'0" x 7'10"		47.0	W25
W17	611	3'0" x 7'2"		21.5	W30
W14	612	3'6" x 7'10"		27.4	W32
W14	615	12'2" x 7'10"	.00517	95.3	W31
W12	854	3'6" x 7'2"	.1458	25.1	W27
W12	855	13'7" x 9'7"	.00517	130.2	W18

* See pp. A10 & A11
 For conservatism, the net area of a wall ($A_{W,net}$) is taken as the gross area ($A_{W,gross}$) minus the area of any doors (EA_D) included in the wall (see next page).

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Part 4 (contd)

Wall no.	AW, gross (ft ²) (see p. A5)	Note(s) of included doors (see p. A6)	ΣA_D Total door area, ft ²	AW, net wall area, ft ²
1	283.2	-	-	283.2
2	518.3	262	55.0	463.3
3	339.9	-	-	339.9
4	28.3	-	-	28.3
5	410.7	263	21.5	389.2
6	254.9	-	-	254.9
7	1249.0	246	47.0	1202.0
8	552.3	-	-	552.3
9	162.9	-	-	162.9
10	538.1	259	47.0	491.1
11	212.4	-	-	212.4
12	703.8	84, 855	25.4 / 30.25 / 55.3	548.5
13	684.0	261	47.0	637.0
14	685.3	611, 612, 615	21.5 / 21.4 / 9.7 / 44.2	551.1
15	662.3	-	-	662.3
16	1313.6	-	-	1313.6
17	1554.0	-	-	1554.0
18	432.5	-	-	432.5

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Part 5: Properties of wall materials

For ceiling walls (W15-W18), reinforced concrete (RC) properties as found in Table 2 of Ref. 3 are assigned:

$$\rho_{RC} = 145 \frac{\text{lbm}}{\text{ft}^3};$$

$$c_{p,RC} = .156 \frac{\text{Btu}}{\text{lbm-F}}; k_{RC} = .92 \frac{\text{Btu}}{\text{hr-ft-F}}$$

For all firewalls (FWs) of the AEFRA (W1-W14) properties are based on Ref. 6:

A. For 12" (nominal) thick 2-core unit ($t_w = 11.625"$)

$$M_{12"fw} = \text{ave. mass per ft}^2 \text{ wall surf.} = 52 \frac{\text{lbm}}{\text{ft}^2}$$

$$\rho_{12"fw} = \frac{M_{12"fw}}{(11.625/12)} = \frac{52 \times 12}{11.625} = 53.7 \frac{\text{lbm}}{\text{ft}^3}$$

$$\text{Assume } c_{p,12"fw} = c_{p,RC} = .156 \frac{\text{Btu}}{\text{lbm-F}}$$

$$U_{12"fw} = \text{Thermal conductance} = .31 \frac{\text{Btu}}{\text{hr-ft}^2\text{-F}}$$

$$k_{12"fw} = \text{Thermal conductivity, Btu/hr-ft-F}$$

$$= U_{12"fw} \times t_{w,12"fw} = .31 \times \left(\frac{11.625}{12}\right) = .30 \frac{\text{Btu}}{\text{hr-ft-F}}$$

B. For 8" (nominal) thick 2-core unit ($t_w = 7.625"$):

$$M_{8"fw} = 34 \frac{\text{lbm}}{\text{ft}^2}; \rho_{8"fw} = \frac{34 \times 12}{7.625} = 53.5 \frac{\text{lbm}}{\text{ft}^3};$$

$$U_{8"fw} = .32 \frac{\text{Btu}}{\text{hr-ft}^2\text{-F}}; k_{8"fw} = .32 \left(\frac{7.625}{12}\right) = .203 \frac{\text{Btu}}{\text{hr-ft-F}}$$

$$c_{p,8"fw} = .156 \text{ Btu/lbm-F assumed.}$$

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Part 6: Properties of door "walls" (non-rolling type)

Based on thinnest gauge A rated honeycomb door in Ref. 8 (ie 18 gauge, .05" sheet steel)

U-factor (winter) $\equiv U_w = .42 \text{ Btu/hr-ft}^2\text{-F}$

$R_w = 1./U_w = 1./.42 \equiv 2.381 \text{ hr-ft}^2\text{-F/Btu}$

Via Ref. 9: $R_{\text{interior film}} = .685$ "

& $R_{\text{exterior film, winter}} = .167$ "

Thus: $R_{\text{door only}} = 2.381 - .685 - .167 = 1.529$ "

ie $U_{\text{door only}} = 1./1.529 = .654 \text{ Btu/hr-ft}^2\text{-F}$

U-factor (summer) $\equiv U_s = .41 \text{ Btu/hr-ft}^2\text{-F}$

$R_s = 1./U_s = 1./.41 \equiv 2.439 \text{ hr-ft}^2\text{-F/Btu}$

Via Ref. 9: $R_{\text{interior film}} = .685$ "

& $R_{\text{exterior film, summer}} = .250$ "

Thus: $R_{\text{door only}} = 2.439 - .685 - .250 = 1.504$ "

ie $U_{\text{door only}} = 1./1.504 = .665 \text{ Btu/hr-ft}^2\text{-F}$

For conservatism, use lower value of

$U_{\text{door only}}$ of .654 Btu/hr-ft}^2\text{-F}

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Part 6 (cont.)

$t_{door} \text{ thickness} = \frac{1.75''}{1.2} = .1458 \text{ ft}$ (per A-447, A-456, A-462.)

$R_{door} \text{ thermal conductivity} = U_{door} \text{ only} \times t_d$
 $= .654 \frac{\text{Btu}}{\text{hr-ft}^2-F} \times .1458 \text{ ft} = .095 \frac{\text{Btu}}{\text{hr-ft}^2-F}$

Via Ref 8: max. gauge no. for A rating of honeycomb door is 18, ie min. thickness of steel face is .050" (see col "(4)" of Table 1-11 of Ref. 10). Neglecting the

honeycomb mass, density of door is

$$\rho_d = \frac{\text{mass/ft}^2 \text{ face area}}{\text{vol/ft}^2 \text{ face area}} = \frac{\rho_{\text{steel}} \times 2 \times (.05)}{t_d}$$

$$= \frac{490 \times 2 \times .05}{.1458 \times 12} = 28. \text{ lbm/ft}^3$$

Specific heat capacity is assumed to be that of steel = $c_{pd} = .12 \frac{\text{Btu}}{\text{lbm-F}}$.
 (Steel properties are taken from Ref. 3.)

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Part 7: Properties of rolling door "walls"

Based on Ref. 8, rolling doors are assumed to be a single thickness of steel of 16 U.S. Std. gauge (0.062" thick).

Thus, ρ_{rd} = density of rolling door material
 $= \rho_{steel} = 490 \text{ lbm/ft}^3$

$c_{p,rd}$ = specific heat capacity of rolling door material
 $= c_{p,steel} = 0.12 \text{ Btu/lbm-F.}$

(Properties of steel as via Ref. 3.)

The actual conductivity of the rolling door material is $k_{steel} = 27 \frac{\text{Btu}}{\text{hr-ft-F}}$

To avoid numeric difficulty, k_{rd} is set as $0.27 \frac{\text{Btu}}{\text{hr-ft-F}}$ (is .01 of actual value).

This choice is conservative.

$$t_{rd} = \text{rolling door thickness} \\ = \frac{.062}{12} = .00517 \text{ ft}$$

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PART 8 - HUMIDITY CONSIDERATIONS
HEATING OF A CLOSED VOLUME

$$w \equiv \frac{m_v}{m_a} = \text{constant}$$

$$w = 0.622 \frac{\phi P_{g2}}{P - \phi P_{g2}}$$

going from T_1 to T_2 , $w_1 = w_2$ ∴

$$0.622 \frac{\phi_1 P_{g1}}{P_1 - \phi_1 P_{g1}} = 0.622 \frac{\phi_2 P_{g2}}{P_2 - \phi_2 P_{g2}}$$

ASSUME $P_1 = P_2 = P$

$$\left(\frac{\phi_1 P_{g1}}{P - \phi_1 P_{g1}} \right) (P - \phi_2 P_{g2}) = \phi_2 P_{g2}$$

$$\left(\frac{\phi_1 P_{g1}}{P - \phi_1 P_{g1}} \right) P = \phi_2$$

$$\left(\frac{\phi_1 P_{g1}}{P - \phi_1 P_{g1}} \right) P_{g2} + P_{g2}$$

$$P \left(\frac{\phi_1 P_{g1}}{P - \phi_1 P_{g1}} \right) = \phi_2 = \frac{P X}{P_{g2} (X + 1)}$$

where $X = \left(\frac{\phi_1 P_{g1}}{P - \phi_1 P_{g1}} \right)$



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RELATIVE HUMIDITIES FOR TIME DEPENDANT VOLUMES

NODE 5

T	P _{SAT}	R.H
102	1.014	.47
108.9	1.235	.39
115.8	1.514	.31
122.6	1.827	.26
129.5	2.194	.22

$$X = \frac{\phi \cdot P_{g1}}{P - \phi \cdot P_{g1}} = \frac{.47(1.014)}{14.7 - .47(1.014)} = 0.03351$$

$$\phi_2 = \frac{PX}{P_{g2} [X+1]} = \frac{14.7(0.03351)}{1.235(1.03351)}$$

NODE 6

T	P _{SAT}	R.H
106	1.142	.34
107.2	1.180	.33
108.5	1.222	.32
109.7	1.260	.31
110.9	1.308	.30

$$X = 0.02713$$

NODE 7

T	P _{SAT}	R.H
102	1.014	.47
103.9	1.075	.44
105.8	1.136	.42
107.8	1.200	.40
109.7	1.260	.38

$$X = 0.03351$$

Form GG-3.06.1 Rev. 2



Calcs. For	
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NODE 8
 T RH
 104 .36

NODE 9

T	P _{STAT}	RH
104	1.078	.36
120.7	1.727	.22
137.4	2.716	.14
154.1	4.138	.094
170.8	6.112	.069

$$X = \frac{.36(1.078)}{14.7 - .36(1.078)} = 0.02712$$

NODE 10
 T RH
 104 .36

NODE 11 + 12

T	P _{STAT}	RH
104	1.078	.36
118.6	1.631	.24
133.3	2.741	.16
147.9	3.546	.11
162.5	5.053	.077

$$X = 0.02712$$

Form 00-3-08-1 Rev. 2



Calc. For	
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NODE 13

T	P _{BAT}	RH
104	1.078	.36
1045	1.094	.35
1050	1.110	.35
1054	1.123	.35
1059	1.139	.34

$X = 0.02712$

NODE 14

T	P _{BAT}	RH
104	1.078	.36
105.2	1.116	.35
1064	1.155	.34
1076	1.193	.33
1088	1.232	.32

$X = 0.02712$

NODE 15

T	P _{BAT}	RH
750	.435	.20
75.6	.444	.20
762	.453	.19
767	.461	.19
773	.470	.19

$X = 0.005954$

Form 00-2 08-1 Rev. 2

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Part 2: Mean beam length calcs.

Via eqn. (4-53) of Ref. 11 = $L^0 = 4V/A$

Node 1: $V = \text{Gross vol.} = 11259.1 \text{ ft}^3$ (see pp. A2, A3 & A5);

$$A = \text{Wall area sum} = W1 + W9 + W10 + W11 + W12 + W15 + W19$$

$$= 288.2 + 162.9 + 538.1 + 212.4 + 703.8 + 662.3 \times 2$$

$$\equiv 3225.7 \text{ ft}^2; L^0 = \underline{13.96 \text{ ft}}$$

Node 2: $V = 22331. \text{ ft}^3$; $A = W2 + W8 + W12 +$

$$+ W13 + W16 + W20 = 518.3 + 552.3 + 705.8 +$$

$$+ 684.0 + 1313.6 \times 2 \equiv 5085.6 \text{ ft}^2; L^0 = \underline{17.56 \text{ ft}}$$

Node 3: $V = 26418. \text{ ft}^3$; $A = W3 + W4 + W7 + W13 +$

$$+ W14 + W17 + W21 = 339.9 + 28.3 + 1249.0 + 684.0 +$$

$$+ 695.3 + 1554.0 \times 2 \equiv 6104.5 \text{ ft}^2; L^0 = \underline{17.31 \text{ ft}}$$

Node 4: $V = 7352.0 \text{ ft}^3$; $A = W5 + W6 + W14 +$

$$+ W18 + W22 = 410.7 + 254.9 + 695.3 +$$

$$+ 432.5 \times 2. \equiv 2225.9 \text{ ft}^2; L^0 = \underline{13.2 \text{ ft}}$$

Inside AEFER 4: $\text{max } P_w L \approx .43 \times .4298 \times 17.56 / 14.7 = .221 \text{ ft-alk}$

so, from plot of Table 4-3 of Ref. 11 = $L/L^0 \approx .91$ (from AEFER 4)

$$L_{\text{node 1}} = 13.96 \times .91 = 12.7 \text{ ft}; L_{\text{node 2}} = 16.0; L_{\text{node 3}} = 15.7; L_{\text{node 4}} = 13.0 \text{ ft}$$



Calc. For	ACT. TEST TANK
	240
<input checked="" type="checkbox"/> Safety-Related	<input type="checkbox"/> Non-Safety-Related

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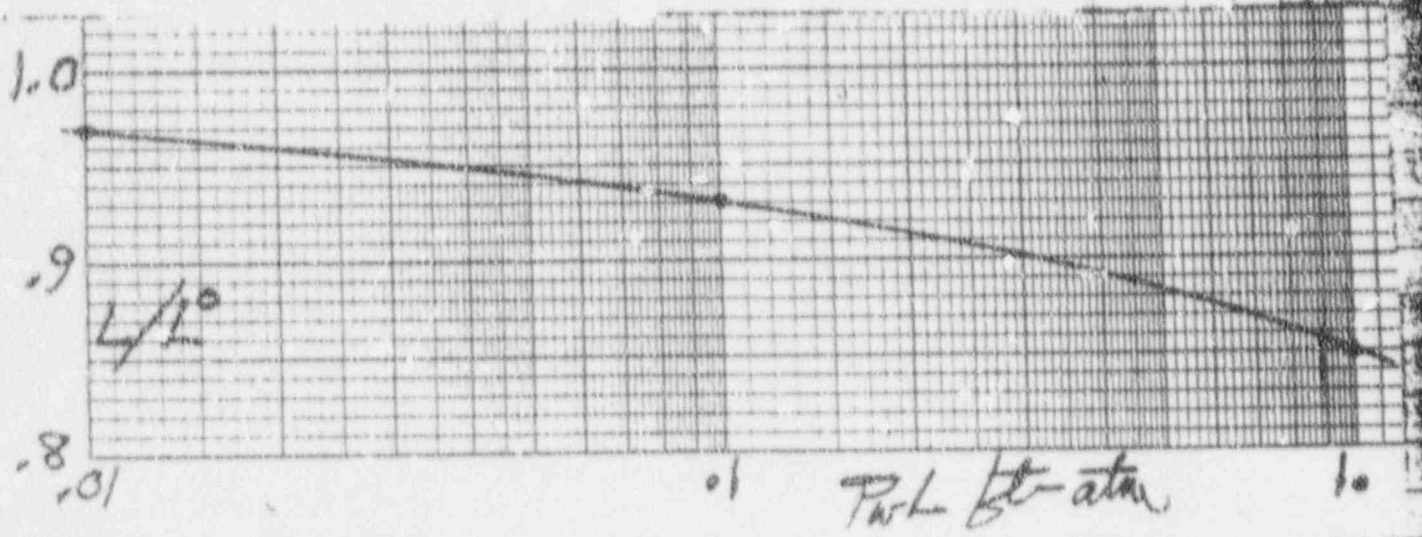
PART 10 - RADIATION FROM SURROUNDINGS FROM TO OUTER SURFACES OF AEEK.

BASED ON REFERENCE 7, THE DISTANCE FROM THE OUTSIDE SURFACE OF THE AEEK TO THE PARALLEL SLABS IS EQUAL TO OR LESS THAN 30 FEET FOR THE SIDEWALLS, 10 FEET FOR THE FLOOR SLAB AND 20 FEET FOR THE CEILING.

BASED ON REFERENCE 11, TABLE 4-2, PAGE 88, THE CONSERVATIVE BEAM LENGTH IS 2 TIMES THE DISTANCE BETWEEN INFINITE PARALLEL PLANES. THEREFORE, THE MEAN BEAM LENGTH IS 60 FEET, 20 FEET AND 40 FEET FOR THE SIDEWALL, FLOOR, AND CEILING, RESPECTIVELY.

Plot of Table 4-2 of Ref. 11 values for water vapor

Form 00-5.08.1 Rev. 2 8L-FU-7 10-88 (20)



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Prepared by Lewis J. Bickel Date 5/11/92
Reviewed by Tasak Zala Date 5.11.92
Approved by Robert J. Peterson Date 5-11-92

Appendix B

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<u>Page</u>	<u>Description</u>
B2	Input Data
B6	Output
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INITIAL RUN
APERTR.DAT, INIT.TEMP.AEER'S=9DF;V(FREE)=.9*V(GROSS); FLOOR=24IN

15 4 0 32 4 0 0 0 0 1 8 1 0 0 0 *2 0 5 0 /B
1 0. .0001 0 0 0 /B1

4000 1 1 0. 14400. 100. 1. /C1
14600. 5. 720 2880 1 1 /C2-1
10133. 14.7 90. .20 19*0 /D-
20098. 14.7 90. .20 10*0 /D-
23776. 14.7 90. .20 10*0 /D-
6617. 14.7 90. .20 10*0 /D-4
1.E20 14.7 102. .47 8*0 1 0 /D-5
1.E20 14.7 102. .34 8*0 2 0 /D-6
1.E20 14.7 102. .47 8*0 3 0 /D-7
1.E30 14.7 104. .36 10*0 /D-8
1.E20 14.7 104. .36 8*0 4 0 /D-9
1.E30 14.7 104. .36 10*0 /D-10
1.E20 14.7 104. .36 8*0 5 0 /D-11
1.E20 14.7 104. .36 8*0 5 0 /D-12
1.E20 14.7 104. .36 8*0 6 0 /D-13
1.E20 14.7 104. .36 8*0 7 0 /D-14
1.E20 14.7 75. .20 8*0 8 0 /D-15

0. 0. 0 0 /D0
6 1 5 0 -1 0 0 /E-
1. 18*0 /F-

NO
6 2 5 0 -1 0 0 /E-
1. 16*0 /F-

NO
6 3 5 0 -1 0 0 /E-
1. 18*0 /F-

NO
6 4 5 0 -1 0 0 /E-
1. 18*0 /F-

NO
5 0 14.7 102 .47 7*0 3600 14.7 108.9 .39 7*0 7200 14.7 115.8 .31 7*0 10800 14.7 122.6 .26 7*0 14400 14.7 129.5 0.21 7*0 /J1
5 0 14.7 106 .34 7*0 3600 14.7 107.2 .33 7*0 7200 14.7 108.5 0.32 7*0 10800 14.7 109.7 .31 7*0 14400 14.7 110.9 .30 7*0 /J1
5 0 14.7 102 .47 7*0 3600 14.7 103.9 .44 7*0 7200 14.7 105.8 .42 7*0 10800 14.7 107.8 .40 7*0 14400 14.7 109.7 .38 7*0 /J1
5 0 14.7 104 .36 7*0 3600 14.7 120.7 .22 7*0 7200 14.7 137.4 .16 7*0 10800 14.7 154.1 .094 7*0 14400 14.7 170.8 .063 7*0 /J1
5 0 14.7 104 .36 7*0 3600 14.7 118.6 .24 7*0 7200 14.7 133.3 .16 7*0 10800 14.7 147.9 .11 7*0 14400 14.7 162.5 .077 7*0 /J1
5 0 14.7 104 .36 7*0 3600 14.7 104.5 .35 7*0 7200 14.7 105 .35 7*0 10800 14.7 105.4 .35 7*0 14400 14.7 105.9 .34 7*0 /J
5 0 14.7 104 .36 7*0 3600 14.7 105.2 .35 7*0 7200 14.7 106.4 .34 7*0 10800 14.7 107.6 .33 7*0 14400 14.7 108.8 .32 7*0 /J1
5 0 14.7 75. .20 7*0 3600 14.7 75.6 .20 7*0 7200 14.7 76.2 0.19 7*0 10800 14.7 76.7 0.19 7*0 14400 14.7 77.3 0.19 7*0 /J

+1 3 0. /X
-500. 150. 0. 0. 1.E6 0. /E-1
1 2 3*0. 2 2 3*0. 5 2 3*0. 4 2 3*0. /0
0. 0. 3.593 1.E6 0. 3.593
0. 0. 11.64 1.E6 0. 11.64
0. 0. 13.58 1.E6 0. 13.58
0. 0. 2.133 1.E6 0. 2.133 /R-

W 1
1 1 1 1 5 13 283.2 0. 1.E6 8*0. /X-
9 0 11.625 94.56 103.3 -2 0. 0. 1 0 2 /Z-

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.30 53.7 .156 /Z3-

W 2

1 1 2 4 5 13 463.3 0. 1.E6 8*0. /X-

9 0 11.625 94.49 103.3 -2 0. 0. 1 0 2 /Z-

.30 53.7 .156 /Z3-

W 3

1 1 3 7 6 13 339.9 0. 1.E6 8*0. /X-

9 0 11.625 95.79 103.3 -2 0. 0. 1 0 2 /Z-

.30 53.7 .156 /Z3-

W 4

1 1 3 7 7 13 28.3 0. 1.E6 8*0. /X-

9 0 11.625 94.49 103.33 -2 0. 0. 1 0 2 /Z-

.30 53.7 .156 /Z3-

W 5

1 1 4 10 7 13 389.2 0. 1.E6 8*0. /X-

9 0 11.625 94.58 103.30 -2 0. 0. 1 0 2 /Z-

.30 53.7 .156 /Z3-

W 6

1 1 4 10 8 13 254.9 0. 1.E6 8*0. /X-

9 0 11.625 95.25 103.30 -2 0. 0. 1 0 2 /Z-

.30 53.7 .156 /Z3-

W 7

1 1 3 7 9 13 1202.0 0. 1.E6 8*0. /X-

9 0 11.625 95.15 103.3 -2 0. 0. 1 0 2 /Z-

.30 53.7 .156 /Z3-

W 8

1 1 2 4 10 13 552.3 0. 1.E6 8*0. /X-

9 0 11.625 95.14 103.30 -2 0. 0. 1 0 2 /Z-

.30 53.7 .156 /Z3-

W 9

1 1 1 1 10 13 162.9 0. 1.E6 8*0. /X-

9 0 11.625 95.23 103.30 -2 0. 0. 1 0 2 /Z-

.30 53.7 .156 /Z3-

W 10

1 1 1 1 11 13 491.1 0. 1.E6 8*0. /X-

9 0 11.625 95.23 103.3 -2 0. 0. 1 0 2 /Z-

.30 53.7 .156 /Z3-

W 11

1 1 1 1 12 13 212.4 0. 1.E6 8*0. /X-

9 0 11.625 95.23 103.3 -2 0. 0. 1 0 2 /Z-

.30 53.7 .156 /Z3-

W 12

1 1 1 1 2 4 548.5 0. 1.E6 8*0. /X-

6 0 7.625 90. 90. +1 0. 0. 1 0 2 /Z-

.203 53.5 .156 /Z3-

W 13

1 1 2 4 3 7 637.0 0. 1.E6 8*0. /X-

9 0 11.625 90. 90. +1 0. 0. 1 0 2 /Z-

.30 53.7 .156 /Z3-

W 14

1 1 3 7 4 10 551.1 0. 1.E6 8*0. /X-

6 0 7.625 90. 90. +1 0. 0. 1 0 2 /Z-

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.203 53.5 .156 /Z3-

W 15

1 1 1 3 13 14 662.3 0. 1.E6 8*0. /X-
9 0 12. 101.1 106.70 -2 0. 0. 1 0 2 /Z-
.92 145. .156 /Z3-

W 16

1 1 2 6 13 14 1313.6 0. 1.E6 8*0. /X-
9 0 12. 100.90 106.70 -2 0. 0. 1 0 2 /Z-
.92 145. .156 /Z3-

W 17

1 1 3 9 14 14 1554.0 0. 1.E6 8*0. /X-
9 0 12. 100.9 106.70 -2 0. 0. 1 0 2 /Z-
.92 145. .156 /Z3-

W 18

1 1 4 12 14 14 432.5 0. 1.E6 8*0. /X-
9 0 12. 101.20 106.70 -2 0. 0. 1 0 2 /Z-
.92 145. .156 /Z3-

W 19

1 1 15 15 1 2 662.3 0. 1.E6 8*0. /X-
7 0 9. 89.77 89.79 -2 0. 0. 1 0 2 /Z-
.92 145. .156 /Z3-

W 20

1 1 15 15 2 5 1313.6 0. 1.E6 8*0. /X-
7 0 9. 89.78 89.81 -2 0. 0. 1 0 2 /Z-
.92 145. .156 /Z3-

W 21

1 1 15 15 3 8 1554. 0. 1.E6 8*0. /X-
18 0 24. 89.75 89.81 -2 0. 0. 1 0 2 /Z-
.92 145. .156 /Z3-

W 22

1 1 15 15 4 11 432.5 0. 1.E6 8*0. /X-
7 0 9. 89.76 89.78 -2 0. 0. 1 0 2 /Z-
.92 145. .156 /Z3-

W 23

1 1 2 1 5 1 55.0 0. 1.E6 8*0. /X-
1 0 .1458 96.68 97.06 -2 0. 0. 1 0 2 /Z-
.095 28. .12 /Z3-

W 24

1 1 4 10 7 13 21.5 0. 1.E6 8*0. /X-
1 0 .1458 98.47 98.97 -2 0. 0. 1 0 2 /Z-
.095 28. .12 /Z3-

W 25

1 1 3 1 9 1 47.0 0. 1.E6 8*0. /X-
1 0 .1458 97.79 98.25 -2 0. 0. 1 0 2 /Z-
.095 28. .12 /Z3-

W 26

1 1 1 1 11 13 47. 0. 1.E6 8*0. /X-
1 0 .1458 99.80 100.4 -2 0. 0. 1 0 2 /Z-
.095 28. .12 /Z3-

W 27

1 1 1 1 2 4 25.1 0. 1.E6 8*0. /X-
1 0 .1458 90. 90. +1 0. 0. 1 0 2 /Z-

.095 28. .12 /Z3-

W 28

1 1 1 1 2 4 130.2 0. 1.E6 8*0. /X-

1 0 .00517 90. 90. +1 0. 0. 1 0 2 /Z-

.27 490. .12 /Z3-

W 29

1 1 2 4 3 7 47. 0. 1.E6 8*0. /X-

1 0 .1458 90. 90. +1 0. 0. 1 0 2 /Z-

.095 28. .12 /Z3-

W 30

1 1 3 7 4 10 21.5 0. 1.E6 8*0. /X-

1 0 .1458 90. 90. +1 0. 0. 1 0 2 /Z-

.095 28. .12 /Z3-

W 31

1 1 3 7 4 10 95.3 0. 1.E6 8*0. /X-

1 0 .00517 90. 90. +1 0. 0. 1 0 2 /Z-

.27 490. .12 /Z3-

W 32

1 1 3 7 4 10 27.4 0. 1.E6 8*0. /X-

1 0 .1458 90. 90. +1 0. 0. 1 0 2 /Z-

.095 28. .12 /Z3-

10 1 17. 12.7 .94 5*0 /ZZ1-1 SIDEWALL NC & VAPOR RADN. FOR NODE 1

10 2 17. 12.7 .94 5*0 /ZZ1-2 FLOOR NC & VAPOR RADN. FOR NODE 1

10 3 17. 12.7 .94 5*0 /ZZ1-3 CEILING NC & VAPOR RADN. FOR NODE 1

10 1 17. 16.0 .94 5*0 /ZZ1-4 SIDEWALL NC & VAPOR RADN. FOR NODE 2

10 2 17. 16.0 .94 5*0 /ZZ1-5 FLOOR NC & VAPOR RADN. FOR NODE 2

10 3 17. 16.0 .94 5*0 /ZZ1-6 CEILING NC & VAPOR RADN. FOR NODE 2

10 1 17. 15.7 .94 5*0 /ZZ1-7 SIDEWALL NC & VAPOR RADN. FOR NODE 3

10 2 17. 15.7 .94 5*0 /ZZ1-8 FLOOR NC & VAPOR RADN. FOR NODE 3

10 3 17. 15.7 .94 5*0 /ZZ1-9 CEILING NC & VAPOR RADN. FOR NODE 3

10 1 17. 12.0 .94 5*0 /ZZ1-10 SIDEWALL NC & VAPOR RADN. FOR NODE 4

10 2 17. 12.0 .94 5*0 /ZZ1-11 FLOOR NC & VAPOR RADN. FOR NODE 4

10 3 17. 12.0 .94 5*0 /ZZ1-12 CEILING NC & VAPOR RADN. FOR NODE 4

10 1 17. 60 .94 5*0 /ZZ1-13 SIDEWALL NC & RADN. FOR OUTSIDE WALL SURFACES

10 2 17. 20 .94 5*0 /ZZ1-14 FLOOR NC & RADN. FOR OUTSIDE WALL SURFACES

10 3 17. 40 .94 5*0 /ZZ1-15 CEILING NC & RADN. FOR OUTSIDE WALL SURFACES

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SARGENT & LUNDY ENGINEERS
 Output file: AEERTN1.DAT

INITIAL RUN

AEERTN.DAT, (MI), TEMP, AEER'S=90F, V(FREE)=.9*V(GROSS); FLOOR=24.1M

NUMBER OF VOLTS: 15
 NUMBER OF JUNCTIONS: 4
 NUMBER OF COMPRESSIBLE JUNCTIONS: 0
 NUMBER OF HEAT SINKS: 32
 NUMBER OF BLOWDOWN VOLUMES: 4
 PRINT FREQUENCY DIFFERENCES: 0
 PUNCH CARDS FOR RESTART: 0
 NUMBER OF MAXIMUM PRESSURES: 0
 NEW PROBLEM OR PROBLEM NUMBER: 0
 UNIT CONV. + GAS FLAG: 1
 NUMBER OF TIME VOLUME TABLES: 8
 NUMBER OF BLOWER CURVES: 1
 NUMBER OF FILTER CURVES: 0
 NUMBER OF VALVE TABLES: 0
 PRINT OUTPUT UNITS: 0
 VOLUME INITIALIZATION ITERATIONS: 12
 TOTAL NUMBER OF INCREMENTS: 0
 FREQUENCY OF PLOT RECORDS: 5
 NUMBER OF COMBINED PLOT RECORDS: 0

MAXIMUM NUMBER OF TIME INCREMENTS: 4000
 TIME INCREMENT CONTROL: 1
 NUMBER OF TIME INTERVAL CARDS: 1
 STARTING TIME: 0.000000E+00
 MAXIMUM TIME: 1.440000E+04
 MAXIMUM ALLOWABLE TIME INCREMENT: 1.000000E+02
 MASS OR PRESS. FRACTION: 1.000000E+00
 MAXIMUM NUMBER OF ITERATIONS: 1
 CONVERGENCE CRITERION: 0.000000E+00
 TOLERANCE FOR TEMP. CONVERGENCE: 1.000000E-04
 NUMBER OF ITERATIONS, TEMP. SEARCH: 10
 RESTART INDICATOR (RUN #): 0

INTERVAL	END TIME	TIME STEP	THERMODYNAMICS PRINT FREQUENCY	HEAT SINKS PRINT FREQUENCY	JUNCTION CAL. NEEDED	HEAT SINKS CAL. NEEDED
1	14600.00000	5.0000000	720	2880	1	1

VOLUME INFORMATION

NV	VOLUME	PRESSURE	TEMPERATURE	REL. HUMIDITY	STEAM MASS	WATER MASS	GAS MASS 1	GAS MASS 2	GAS MASS 3
GAS MASS 4	GAS MASS 5	TOT ENG	IRD DL						
1	1.0133E+04	1.4700E+11	9.0000E+01	2.0000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0.0E+00					
2	2.0098E+04	1.4700E+11	9.0000E+01	2.0000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0.0E+00					
3	2.3776E+04	1.4700E+11	9.0000E+01	2.0000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0.0E+00					
4	6.6170E+03	1.4700E+11	9.0000E+01	2.0000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0.0E+00					
5	1.0000E+20	1.4700E+11	1.0200E+02	4.7000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0.0E+00					
6	1.0000E+20	1.4700E+11	1.0600E+02	3.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	2.0.0E+00					
7	1.0000E+20	1.4700E+11	1.0200E+02	4.7000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	3.0.0E+00					
8	1.0000E+30	1.4700E+11	1.0400E+02	3.6000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0.0E+00					
9	1.0000E+20	1.4700E+11	1.0400E+02	3.6000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.0.0E+00					
10	1.0000E+30	1.4700E+11	1.0400E+02	3.6000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0.0E+00					
11	1.0000E+20	1.4700E+11	1.0400E+02	3.6000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0.0E+00					
12	1.0000E+20	1.4700E+11	1.0400E+02	3.6000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	5.0.0E+00					
13	1.0000E+20	1.4700E+11	1.0400E+02	3.6000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.0.0E+00					
14	1.0000E+20	1.4700E+11	1.0400E+02	3.6000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.0.0E+00					
15	1.0000E+20	1.4700E+11	7.5000E+01	2.0000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.0.0E+00					

ACCUMULATED MASS AND ENERGY INFORMATION

SHMASO	SARRGO	KUMBT	KOURTH
0.00E+00	0.00E+00	0	0

GENERAL JUNCTION INFORMATION

SARGENT & LUNDY ENGINEERS
 Output file: AEERT1.DAT

0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 2 3.600000E+03 1.470000E+01 1.089000E+02 3.900000E-01 0.000000E+00 0.000000E+00 0.000000E+00
 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 3 7.200000E+03 1.470000E+01 1.158000E+02 3.100000E-01 0.000000E+00 0.000000E+00 0.000000E+00
 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 4 1.080000E+04 1.470000E+01 1.226000E+02 2.600000E-01 0.000000E+00 0.000000E+00 0.000000E+00
 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 5 1.440000E+04 1.470000E+01 1.295000E+02 2.100000E-01 0.000000E+00 0.000000E+00 0.000000E+00
 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 TIME-DEPENDENT TABLE NUMBER 2

POINT	TIME	PRESSURE	TEMPERATURE	REL. HUMIDITY	STEAM MASS	LIQUID MASS	GAS MASS1
GAS MASS2	GAS MASS3	GAS MASS4	GAS MASS5				
1	0.000000E+00	1.470000E+01	1.060000E+02	3.400000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
2	3.600000E+03	1.470000E+01	1.072000E+02	3.300000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
3	7.200000E+03	1.470000E+01	1.085000E+02	3.200000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
4	1.080000E+04	1.470000E+01	1.097000E+02	3.100000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
5	1.440000E+04	1.470000E+01	1.109000E+02	3.000000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			

TIME-DEPENDENT TABLE NUMBER 3

POINT	TIME	PRESSURE	TEMPERATURE	REL. HUMIDITY	STEAM MASS	LIQUID MASS	GAS MASS1
GAS MASS2	GAS MASS3	GAS MASS4	GAS MASS5				
1	0.000000E+00	1.470000E+01	1.020000E+02	4.700000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
2	3.600000E+03	1.470000E+01	1.039000E+02	4.400000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
3	7.200000E+03	1.470000E+01	1.058000E+02	4.200000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
4	1.080000E+04	1.470000E+01	1.078000E+02	4.000000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
5	1.440000E+04	1.470000E+01	1.097000E+02	3.800000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			

TIME-DEPENDENT TABLE NUMBER 4

POINT	TIME	PRESSURE	TEMPERATURE	REL. HUMIDITY	STEAM MASS	LIQUID MASS	GAS MASS1
GAS MASS2	GAS MASS3	GAS MASS4	GAS MASS5				
1	0.000000E+00	1.470000E+01	1.020000E+02	4.700000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
2	3.600000E+03	1.470000E+01	1.039000E+02	4.400000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
3	7.200000E+03	1.470000E+01	1.058000E+02	4.200000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
4	1.080000E+04	1.470000E+01	1.078000E+02	4.000000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
5	1.440000E+04	1.470000E+01	1.097000E+02	3.800000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			

TIME-DEPENDENT TABLE NUMBER 5

TIME-DEPENDENT TABLE NUMBER 5

POINT	TIME	PRESSURE	TEMPERATURE	REL. HUMIDITY	STEAM MASS	LIQUID MASS	GAS MASS
1	0.000000E+00	1.470000E+01	1.040000E+02	3.600000E-01	0.000000E+00	0.000000E+00	0.000000E+00
2	3.600000E+03	1.470000E+01	1.207000E+02	2.200000E-01	0.000000E+00	0.000000E+00	0.000000E+00
3	7.200000E+06	1.470000E+01	1.374000E+02	1.400000E-01	0.000000E+00	0.000000E+00	0.000000E+00
4	1.080000E+04	1.470000E+01	1.541000E+02	9.400000E-02	0.000000E+00	0.000000E+00	0.000000E+00
5	1.440000E+04	1.470000E+01	1.708000E+02	6.300000E-02	0.000000E+00	0.000000E+00	0.000000E+00

TIME-DEPENDENT TABLE NUMBER 6

POINT	TIME	PRESSURE	TEMPERATURE	REL. HUMIDITY	STEAM MASS	LIQUID MASS	GAS MASS
1	0.000000E+00	1.470000E+01	1.040000E+02	3.600000E-01	0.000000E+00	0.000000E+00	0.000000E+00
2	3.600000E+03	1.470000E+01	1.186000E+02	2.400000E-01	0.000000E+00	0.000000E+00	0.000000E+00
3	7.200000E+06	1.470000E+01	1.333000E+02	1.600000E-01	0.000000E+00	0.000000E+00	0.000000E+00
4	1.080000E+04	1.470000E+01	1.479000E+02	1.100000E-01	0.000000E+00	0.000000E+00	0.000000E+00
5	1.440000E+04	1.470000E+01	1.625000E+02	7.700000E-02	0.000000E+00	0.000000E+00	0.000000E+00

TIME-DEPENDENT TABLE NUMBER 7

POINT	TIME	PRESSURE	TEMPERATURE	REL. HUMIDITY	STEAM MASS	LIQUID MASS	GAS MASS
1	0.000000E+00	1.470000E+01	1.040000E+02	3.600000E-01	0.000000E+00	0.000000E+00	0.000000E+00
2	3.600000E+03	1.470000E+01	1.045000E+02	3.500000E-01	0.000000E+00	0.000000E+00	0.000000E+00
3	7.200000E+06	1.470000E+01	1.050000E+02	3.500000E-01	0.000000E+00	0.000000E+00	0.000000E+00
4	1.080000E+04	1.470000E+01	1.054000E+02	3.500000E-01	0.000000E+00	0.000000E+00	0.000000E+00
5	1.440000E+04	1.470000E+01	1.059000E+02	3.400000E-01	0.000000E+00	0.000000E+00	0.000000E+00

POINT	TIME	PRESSURE	TEMPERATURE	REL. HUMIDITY	STEAM MASS	LIQUID MASS	GAS MASS1
GAS MASS2	GAS MASS3	GAS MASS4	GAS MASS5				
1	0.000000E+00	1.470000E+01	1.040000E+02	3.600000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
2	3.600000E+03	1.470000E+01	1.052000E+02	3.500000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
3	7.200000E+03	1.470000E+01	1.064000E+02	3.400000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
4	1.080000E+04	1.470000E+01	1.076000E+02	3.300000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
5	1.440000E+04	1.470000E+01	1.088000E+02	3.200000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			

TIME-DEPENDENT TABLE NUMBER 8

POINT	TIME	PRESSURE	TEMPERATURE	REL. HUMIDITY	STEAM MASS	LIQUID MASS	GAS MASS1
GAS MASS2	GAS MASS3	GAS MASS4	GAS MASS5				
1	0.000000E+00	1.470000E+01	7.500000E+01	2.000000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
2	3.600000E+03	1.470000E+01	7.560000E+01	2.000000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
3	7.200000E+03	1.470000E+01	7.620000E+01	1.900000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
4	1.080000E+04	1.470000E+01	7.670000E+01	1.900000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			
5	1.440000E+04	1.470000E+01	7.730000E+01	1.900000E-01	0.000000E+00	0.000000E+00	0.000000E+00
0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00			

BLOWER CURVE INFORMATION

BLOWER CURVE NUMBER	1	DELAY TIME	0.000000E+00
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POINTS HEAD FLOW

1	-5.000000E+02	1.500000E+02
2	0.000000E+00	0.000000E+00
3	1.000000E+06	0.000000E+00

BLOWDOWN INFORMATION

BLOWDOWN INTO OR FROM VOLUME	1	DELAY TIME	0.000000E+00
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POINT	TIME	MASS RATE	ENERGY RATE
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SARGENT & LUNDY ENGINEERS
Output file: AEERT1.DAT

1 0.000000E+00 0.000000E+00 3.503000E+00
2 1.000000E+06 0.000000E+00 3.593000E+00

BLOWDOWN INTO OR FROM VOLUME 2 DELAY TIME 0.000000E+00

POINT TIME MASS RATE ENERGY RATE
1 0.000000E+00 0.000000E+00 1.164000E+01
2 1.000000E+06 0.000000E+00 1.164000E+01

BLOWDOWN INTO OR FROM VOLUME 3 DELAY TIME 0.000000E+00

POINT TIME MASS RATE ENERGY RATE
1 0.000000E+00 0.000000E+00 1.358000E+01
2 1.000000E+06 0.000000E+00 1.358000E+01

BLOWDOWN INTO OR FROM VOLUME 4 DELAY TIME 0.000000E+00

POINT TIME MASS RATE ENERGY RATE
1 0.000000E+00 0.000000E+00 2.133000E+00
2 1.000000E+06 0.000000E+00 2.133000E+00

GAS INFORMATION/

GAS CONSTANT C SUB P
1 0.000000E+00 0.000000E+00
2 0.000000E+00 0.000000E+00
3 0.000000E+00 0.000000E+00
4 0.000000E+00 0.000000E+00
5 0.000000E+00 0.000000E+00

UNITS CONVERSION FACTORS(USERS UNITS TO SI UNITS)

PARAMETER(SI UNITS) VALUE
MASS(KG)..... 4.535924E-01
AREA(M**2)..... 9.290304E-02
VOLUME(M**3)..... 2.851685E-02
PRESSURE(PA=N/M**2)..... 6.894757E+03
ENERGY(J)..... 1.055056E+03

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GAS CONSTANT(J/KG/K)..... 5.390320E+00
 GAS C SUB P(J/°C/K)..... 4.186800E+03
 TEMP. TO ABS. (G R OR K)..... 4.596700E+02
 TEMP. RATIO, E.G., DEG. F /DE K (K)..... 1.800000E+00
 L/A(M**3)..... 3.280840E+00
 DOOR LENGTH(M)..... 3.048000E-01
 DOOR DAMP. COEFF.(WX)..... 4.448222E+00
 HEAT SINK AREA(M**2)..... 9.290304E-02
 HEAT SINK COORDINATE(M)..... 2.540000E-02
 HEAT SINK CONDU.(W/M/K)..... 1.730735E+00
 HEAT SINK DENS.(KG/M**3)..... 1.601846E+03
 HEAT SINK HEAT GEN.(W/M**3)..... 1.034971E+01
 ICE H. T. COEFF. CO-ID. LAYER LENGTH(M)..... 3.048000E-01
 ICE H. T. COEFF. REF. VALUE(J/S/M**2/K)..... 5.678260E+00

NO. 1 HEAT CONDUCTION STRUCTURE

NO. 1
 GEOM. TYPE- 1, NO. SEGR.- 1 VOL. + BOUN. COND., LFT- 1, RGT- 5 13
 AREA ON LEFT- 2.83200E+02, LFT. COORD.- 0.00000E+00, FUSH. TEMP.- 1.00000E+06
 TRANS MFG+MASS, ON LEFT- 0.00000E+00 CM RIGHT- 0.00000E+00 0.00000E+00
 HTCD+IBULK, ON LEFT- 0.00000E+00 CM RIGHT- 0.00000E+00 0.00000E+00
 SEG. 1, NO. OF INCR.- 9, MATL. NO.- 0, RGT. COORD. 1.16250E+01, INIT. TEMP.- 9.45600E+01
 INIT. TEMP.LAST MODE.- 1.03300E+02
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 0.00000E+00 0.00000E+00
 INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K 3.00000E-01, RHO- 5.37000E+01, SP. HT./MASS- 1.56000E-01

N	K	TZHI.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.45600E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
2	1.291667E+00	9.553111E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
3	2.583333E+00	9.650222E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
4	3.875000E+00	9.747333E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
5	5.166667E+00	9.844444E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00

6	6.458333E+00	9.941556E+01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
7	7.750000E+00	1.003667E+02	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
8	9.041667E+00	1.013578E+02	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
9	1.033333E+01	1.023289E+02	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
10	1.162500E+01	1.033000E+02	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00

NO. 2 HEAT CONDUCTION STRUCTURE

2
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOJH. COMD., LFT- 2 4, RGT- 5 13
 AREA ON LEFT- 4.53300E+02, LFT. COORD.- 0.00000E+00, FUSM. TEMP.- 1.00000E+06
 TRANS WRG+MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00
 HTCO+IBULK, ON LEFT- 0.00000E+00 ON RIGHT- 9.00000E+00
 SEG. 1, NO. OF INCR.- 9, MATL. NO.- 0, RGT. COORD. 1.16250E+01, INIT. TEMP.- 9.44900E+01
 INIT. TEMP. LAST NODE.- 1.03300E+02

INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 0.00000E+00 0.00000E+00
 INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- 3.00000E-01, RHO- 5.37000E+01, SP. HT./MASS- 1.56000E-01

H	X	TINI.	COMD.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.44900E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
2	1.291667E+00	9.546667E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
3	2.583333E+00	9.644778E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
4	3.875000E+00	9.742667E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
5	5.166667E+00	9.840556E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
6	6.458333E+00	9.938444E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
7	7.750000E+00	1.003667E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
8	9.041667E+00	1.013578E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
9	1.033333E+01	1.023211E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
10	1.162500E+01	1.033000E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00

NO. 3 HEAT CONDUCTION STRUCTURE

W 3

GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COORD., LFT- 3 7, RGT- 6 13
 AREA ON LEFT- 3.39900E+02, LFT. COORD.- 0.00000E+00, FUSM. TEMP.- 1.00000E+06
 TRANS WRG+MASS, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 HTCO+TBULK, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 SEG. 1, NO. OF INCR.- 9, MATL. NO.- 0, RGT. COORD. 1.16250E+01, INIT. TEMP.- 9.57500E+01
 INIT. TEMP.LAST NODE.- 1.03300E+02
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 *NT.GEN.DIST.- 1
 NEXT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 0.00000E+00 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

W	X	TINI.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.57900E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
2	1.291667E+00	9.662444E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
3	2.583333E+00	9.745889E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
4	3.875000E+00	9.829333E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
5	5.166667E+00	9.912778E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
6	6.458333E+00	9.996222E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
7	7.750000E+00	1.007967E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
8	9.041667E+00	1.016311E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
9	1.033333E+01	1.024656E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
10	1.162500E+01	1.033000E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00

W. 4 HEAT CONDUCTION STRUCTURE

W 4

GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COORD., LFT- 3 7, RGT- 7 13
 AREA ON LEFT- 2.83000E+01, LFT. COORD.- 0.00000E+00, FUSM. TEMP.- 1.00000E+06
 TRANS WRG+MASS, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 HTCO+TBULK, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 SEG. 1, NO. OF INCR.- 9, MATL. NO.- 0, RGT. COORD. 1.16250E+01, INIT. TEMP.- 9.44900E+01
 INIT. TEMP.LAST NODE.- 1.03330E+02
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00

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INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 0.00000E+00 0.00000E+00
 INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- 3.00000E-01, RHO- 5.37000E+01, SP. HT./MASS- 1.56000E-01

N	X	TINI.	COMD.	RHO	SPRT/MASS	HT. CON. /VOL. /
1	0.00000E+00	9.44900E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
2	1.291667E+00	9.54722E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
3	2.58333E+00	9.64544E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
4	3.87500E+00	9.74366E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
5	5.166667E+00	9.84188E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
6	6.45833E+00	9.94011E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
7	7.75000E+00	1.00383E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
8	9.041667E+00	1.01365E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
9	1.03333E+01	1.02347E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
10	1.16250E+01	1.03330E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00

NO. 5 HEAT CONDUCTION STRUCTURE

NO. 5
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BULK. COORD., LFT- 4 10, RGT- 7 13
 AREA ON LEFT- 3.89200E+02, LFT. COORD.- 0.00000E+00, FUSH. TEMP- 1.00000E+06
 TRANS MFG+MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00
 RTCO+TBULK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00
 SEG. 1, NO. OF INCR.- 9, MATL. NO.- 0, RGT. COORD. 1.16250E+01, INIT. TEMP.- 9.45800E+01
 INIT. TEMP.LAST NODE.- 1.03300E+02
 INIT. TEMP. DIST.- -2
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 0.00000E+00 0.00000E+00
 INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- 3.00000E-01, RHO- 5.37000E+01, SP. HT./MASS- 1.56000E-01

N	X	TINI.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.45800E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
2	1.291667E+00	9.55488E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
3	2.583333E+00	9.65177E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
4	3.875000E+00	9.748667E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
5	5.166667E+00	9.845556E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
6	6.458333E+00	9.942444E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
7	7.750000E+00	1.003933E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
8	9.041667E+00	1.013622E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
9	1.033333E+01	1.023311E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
10	1.162500E+01	1.033000E+02	3.00000E-01	5.37000E+01	1.56000E-01	1.904295-317

NO. 6 HEAT CONDUCTION STRUCTURE

W 4
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUL. COND., LFT- 4 10, RGT- 8 13
 AREA ON LEFT- 2.54900E+02, LFT. COND.- 0.00000E+00, FUSN. TEMP.- 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 HTCD+TBULK, ON LEFT- 0.0000E+00 ON RIGHT- C.0000E+00 0.0000E+00
 SEG. 1, NO. OF INCR.- 9, MATL. NO.- 0, RGT. COORD. 1.16250E+01, INIT. TEMP.- 9.52500E+01
 INIT. TEMP. LAST NODE.- 1.03300E+02
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 0.00000E+00 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

THERMAL PROPS., K-

N	X	TINI.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.52500E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
2	1.291667E+00	9.61444E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
3	2.583333E+00	9.703889E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
4	3.875000E+00	9.793333E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
5	5.166667E+00	9.882778E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
6	6.458333E+00	9.972222E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
7	7.750000E+00	1.066167E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00

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8 9.041667E+00 1.015111E+02 3.000000E-01 5.370000E+01 1.560000E-01 0.000000E+00
 9 1.033333E+01 1.024056E+02 3.000000E-01 5.370000E+01 1.560000E-01 0.000000E+00
 10 1.162500E+01 1.033000E+02 3.000000E-01 5.370000E+01 1.560000E-01 0.000000E+00

NO. 7 HEAT CONDUCTION STRUCTURE

M 7

GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COMD., LFT- 3 7, RGT- 9 13
 AREA ON LEFT- 1.20200E+03, LFT. COORD.- 0.00000E+00, FUSN. TEMP.- 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 HTCOM+IBULK, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 SEG. 1, NO. OF INCR.- 9, MATL. NO.- 0, RGT. COORD. 1.16250E+01, INIT. TEMP.- 9.51500E+01
 INIT. TEMP. LAST NODE.- 1.03300E+02
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN. MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 0.00000E+00 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

THERMAL PROPS., K- 3.0650E-01, RHO- 5.37000E+01, SP. HT./MASS- 1.56000E-01

N	X	TIME.	COMD.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.000000E+00	9.515000E+01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
2	1.291667E+00	9.605556E+01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
3	2.583333E+00	9.696111E+01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
4	3.875000E+00	9.786667E+01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
5	5.166667E+00	9.877222E+01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
6	6.458333E+00	9.967778E+01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
7	7.750000E+00	1.005833E+02	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
8	9.041667E+00	1.014889E+02	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
9	1.033333E+01	1.023944E+02	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
10	1.162500E+01	1.033000E+02	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00

NO. 8 HEAT CONDUCTION STRUCTURE

M 8

GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COMD., LFT- 2 4, RGT- 10 13

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AREA ON LEFT- 5.52300E+02, LFT. COORD.- 0.00000E+00, FUSH. TEMP.- 1.00000E+06
 TRANS HRG+MASS, ON LEFT- 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 HTCD+TBULK, ON LEFT- 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 SEG. 1, NO. OF INCR.- 9, MATL. NO.- 0, RGT. COORD. 1.16250E+01, INIT. TEMP.- 9.51400E+01
 INIT. TEMP.LAST MODE.- 1.03300E+02
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 0.00000E+00 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

THERMAL PROPS., K- 3.00000E+01, RHO- 5.37000E+01, SP. HT./MASS- 1.56000E-01

N	X	TIME.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.51400E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
2	1.291667E+00	9.604667E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
3	2.583333E+00	9.695333E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
4	3.875000E+00	9.786000E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
5	5.166667E+00	9.876667E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
6	6.458333E+00	9.967333E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
7	7.750000E+00	1.005800E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
8	9.041667E+00	1.014667E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
9	1.033333E+01	1.023933E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
10	1.162500E+01	1.033000E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00

MO. 9 HEAT CONDUCTION STRUCTURE

M 9
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COND., LFT- 1, RGT- 10 13
 AREA ON LEFT- 1.62900E+02, LFT. COORD.- 0.00000E+00, FUSH. TEMP.- 1.00000E+06
 TRANS HRG+MASS, ON LEFT- 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 HTCD+TBULK, ON LEFT- 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 SEG. 1, NO. OF INCR.- 9, MATL. NO.- 0, RGT. COORD. 1.16250E+01, INIT. TEMP.- 9.52300E+01
 INIT. TEMP.LAST MODE.- 1.03300E+02
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1

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HEAT GEN. MULTIPLIER SET NO. 0
 INIT. DISTANCE DIST. 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 0.000000E+00 0.000000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- 3.000E-01, RHO- 5.37000E+01, SP. HT./MASS- 1.56000E-01

N	K	TINI.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.000000E+00	9.523000E-01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
2	1.291667E+00	9.612667E-01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
3	2.583333E+00	9.702333E-01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
4	3.875000E+00	9.792000E-01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
5	5.166667E+00	9.881667E-01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
6	6.458333E+00	9.971333E-01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
7	7.750000E+00	1.006100E-02	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
8	9.041667E+00	1.015067E-02	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
9	1.033333E+01	1.024033E-02	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00
10	1.162500E+01	1.033000E-02	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00

NO. 10 HEAT CONDUCTION STRUCTURE

M 10
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COND., LFT- 1, RGT- 11 13
 AREA ON LEFT- 4.91100E+02, LFT. COORD.- 0.00000E+00, FUSM. TEMP.- 1.00000E+06
 TRANS MFG+MASS, ON LEFT- 0.00000E+00 0.00000E+00 ON RIGHT- 0.00000E+00 0.00000E+00
 HTCON+TBULK, ON LEFT- 0.00000E+00 0.00000E+00 ON RIGHT- 0.00000E+00 0.00000E+00
 SEG. 1, NO. OF INCR.- 9, MATL. NO.- 0, RGT. COORD. 1.16250E+01, INIT. TEMP.- 9.52300E+01
 INIT. TEMP. LAST NODE.- 1.03300E+02
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.-LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN. MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 0.000000E+00 0.000000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- 3.00000E-01, RHO- 5.37000E+01, SP. HT./MASS- 1.56000E-01

N	K	TINI.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.000000E+00	9.523000E-01	3.000000E-01	5.370000E+01	1.560000E-01	0.000000E+00

NO.	1	2	3	4	5	6	7	8	9	10
GEOM. TYPE-	1	0.00000E+00	9.52300E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00			
AREA ON LEFT-	2	1.291667E+00	9.612667E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00			
TRANS NRG-MASS,	3	2.58333E+00	9.70233E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00			
RTCO+TBULK, ON LEFT-	4	3.87500E+00	9.79200E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00			
SEG. 1, NO. OF INCR-	5	5.166667E+00	9.881667E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00			
INIT. TEMP. LAST NODE-	6	6.45833E+00	9.97133E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00			
INIT. TEMP. DIST.-	7	7.75000E+00	1.06610E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00			
INT. GEN. /VOL. /HR.-	8	9.041667E+00	1.015067E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00			
INT. GEN. LAST /VOL. /HR.-	9	1.03333E+01	1.02403E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00			
HEAT GEN. MULTIPLIER SET NO.-	10	1.16250E+01	1.03300E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00			

NO. 11 HEAT CONDUCTION STRUCTURE

M 11

GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COND., LEFT- 1, RIGHT- 12 13
 AREA ON LEFT- 2.12400E+02, LFT. COND.- 0.00000E+00, FUSN. TEMP.- 1.00000E+06
 TRANS NRG-MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00
 RTCO+TBULK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00
 SEG. 1, NO. OF INCR- 9, MATL. NO.- 0, RGT. LEAD. 1.16250E+01, INIT. TEMP.- 9.52300E+01
 INIT. TEMP. LAST NODE.- 1.03300E+02
 INIT. TEMP. DIST.- -2
 INT. GEN. /VOL. /HR.- 0.00000E+00
 INT. GEN. LAST /VOL. /HR.- 0.00000E+00
 HEAT GEN. MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 0.00000E+00 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

NO.	1	2	3	4	5	6	7	8	9
THERMAL PROPS., K-	1	0.00000E+00	9.52300E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00		
INIT. TEMP.	2	1.291667E+00	9.612667E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00		
AREA ON LEFT	3	2.58333E+00	9.70233E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00		
TRANS NRG-MASS	4	3.87500E+00	9.79200E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00		
RTCO+TBULK	5	5.166667E+00	9.881667E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00		
SEG. 1, NO. OF INCR	6	6.45833E+00	9.97133E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00		
INIT. TEMP. LAST NODE	7	7.75000E+00	1.06610E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00		
INIT. TEMP. DIST.	8	9.041667E+00	1.015067E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00		
INT. GEN. /VOL. /HR.	9	1.03333E+01	1.02403E+02	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00		

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10 1.162500E+01 1.033000E+02 3.000000E-01 5.376000E+01 1.560000E-01 0.000000E+00

NO. 12 HEAT CONDUCTION STRUCTURE

W 12

GEOM. TYPE- 1, NO. SEGM - 1 VOL. + BOUN. COMB., LFT- 1 1, RGT- 2 4
 AREA ON LEFT- 5.48500E+02, LFT. COORD.- 0.00000E+00, FUSM. T. - 1.00000E+06
 TRANS MKG+MASS, ON LEFT 0.00000E+00 ON RIGHT- 0.00000E+00 3000E+00
 HTCO+IBULK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 0.00000E+00
 SEG. 1, NO. OF INCR.- 6, MATL. NO.- 0, RGT. COORD. 7.62500E+00, INIT. TEMP.- 9.00000E+01
 INIT. TEMP. LAST NODE.- 9.00000E+01
 INIT. TEMP. DIST.- 1
 INT.GEN./VOL./HR.- 0.0-000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN. MULTIPLIER SET I.O.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

THERMAL PROPS., K- 2.03000E-01, RHO- 5.35000E+01, SP. HT./MASS- 1.56000E-01

N	X	HT	COMB.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.16000E+01	2.03000E-01	5.35000E+01	1.56000E-01	0.00000E+00
2	1.270833E+00	9.16000E+01	2.03000E-01	5.35000E+01	1.56000E-01	0.00000E+00
3	2.541667E+00	9.16000E+01	2.03000E-01	5.35000E+01	1.56000E-01	0.00000E+00
4	3.812500E+00	9.16000E+01	2.03000E-01	5.35000E+01	1.56000E-01	0.00000E+00
5	5.083333E+00	9.16000E+01	2.03000E-01	5.35000E+01	1.56000E-01	0.00000E+00
6	6.354167E+00	9.16000E+01	2.03000E-01	5.35000E+01	1.56000E-01	0.00000E+00
7	7.625000E+00	9.16000E+01	2.03000E-01	5.35000E+01	1.56000E-01	0.00000E+00

NO. 13 HEAT CONDUCTION STRUCTURE

W 13

GEOM. TYPE- 1, NO. SEGM - 1 VOL. + BOUN. COMB., LFT- 2 4, RGT- 3 7
 AREA ON LEFT- 6.37600E+02, LFT. COORD.- 0.00000E+00, FUSM. TEMP.- 1.00000E+06
 TRANS MKG+MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 0.00000E+00
 HTCO+IBULK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 0.00000E+00
 SEG. 1, NO. OF INCR.- 9, MATL. NO.- 0, RGT. COORD. 1.16250E+01, INIT. TEMP.- 9.00000E+01
 INIT. TEMP. LAST NODE.- 9.00000E+01
 INIT. TEMP. DIST.- 1

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INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 0.00000E+00 0.00000E+00
 INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- 3.00000E-01, RHO- 5.37000E+01, SP. HT./MASS- 1.56000E-01

Y	X	T111.	COMD.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.00000E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
2	1.291667E+00	9.00000E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
3	2.583333E+00	9.00000E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
4	3.875000E+00	9.00000E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
5	5.166667E+00	9.00000E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
6	6.458333E+00	9.00000E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
7	7.750000E+00	9.00000E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
8	9.041667E+00	9.00000E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
9	1.033333E+01	9.00000E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00
10	1.162500E+01	9.00000E+01	3.00000E-01	5.37000E+01	1.56000E-01	0.00000E+00

NO. 14 HEAT CONDUCTION STRUCTURE

NO. 14
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COMD., LFT- 3 7, RGT- 4 10
 AREA ON LEFT- 5.51100E+02, LFT. COORD.- 0.00000E+00, FUSH. TEMP.- 1.00000E+06
 TRANS HRG+MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 0.00000E+00 0.00000E+00
 HTCO+TBULK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 0.00000E+00 0.00000E+00
 SEG. 1, NO. OF INCR.- 6, MATL. NO.- 0, RGT. COORD. 7.62500E+00, INIT. TEMP.- 9.00000E+01
 INIT. TEMP.LAST NODE.- 9.00000E+01
 INIT. TEMP. DIST.- 1
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- 2.03000E-01, RHO- 5.35000E+01, SP. HT./MASS- 1.56000E-01

N	X	TIME	COORD.	RHO	SPRT/MASS	HT_GEN./VOL./
1	0.000000E+00	9.090000E+01	2.030000E-01	5.350000E+01	1.560000E-01	0.000000E+00
2	1.270833E+00	9.090000E+01	2.030000E-01	5.350000E+01	1.560000E-01	0.000000E+00
3	2.541667E+00	9.090000E+01	2.030000E-01	5.350000E+01	1.560000E-01	0.000000E+00
4	3.812500E+00	9.090000E+01	2.030000E-01	5.350000E+01	1.560000E-01	0.000000E+00
5	5.083333E+00	9.090000E+01	2.030000E-01	5.350000E+01	1.560000E-01	0.000000E+00
6	6.354167E+00	9.090000E+01	2.030000E-01	5.350000E+01	1.560000E-01	0.000000E+00
7	7.625000E+00	9.090000E+01	2.030000E-01	5.350000E+01	1.560000E-01	0.000000E+00

NO. 15 HEAT CONDUCTION STRUCTURE

M 15
 GEND. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COND., LFT- 1 3, RGT- 13 14
 AREA ON LEFT- 6.62350E+02, LFT. COORD.- 0.00000E+00, FLSH. TEMP.- 1.00000E+06
 TRANS HTG-MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 0.00000E+00 0.00000E+00
 HTCO+TBLNK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 0.00000E+00 0.00000E+00
 SEQ. 1, NO. OF INCR.- 9, MATL. NO.- 0, RGT. COORD. 1.20000E+01, INIT. TEMP.- 1.01100E+02

INIT. TEMP.-LAST NODE.- 1.06700E+02
 INIT. TEMP. DIST.- -2
 INT_GEN./VOL./HR.- 0.00300E+00
 INT_GEN.-LAST/VOL./HR.- 0.00000E+00
 INT_GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2

HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 0.000000E+00 0.000000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

THERMAL PROPS., K- 9.2E+00E-01, RHO- 1.45000E+02, SP. HT./MASS- 1.56000E-01

N	X	TIME	COORD.	RHO	SPRT/MASS	HT_GEN./VOL./
1	0.000000E+00	1.011000E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
2	1.333333E+00	1.017222E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
3	2.666667E+00	1.023444E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
4	4.000000E+00	1.029667E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
5	5.333333E+00	1.035889E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
6	6.666667E+00	1.042111E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
7	8.000000E+00	1.048333E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
8	9.333333E+00	1.054556E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
9	1.066667E+01	1.060778E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
10	1.200000E+01	1.067000E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00

NO. 16 HEAT CONDUCTION STRUCTURE

M 16
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BULK. COORD., LEFT- 2 6, RGT- 13 14
 AREA ON LEFT- 1.31340E+03, LFT. COORD.- 0.00000E+00, FUSN. TEMP.- 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 ON RIGHT- 0.00000E+00
 RTCD+TBULK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 ON RIGHT- 0.00000E+00
 SECT. 1, NO. OF INCP.- 9, MA1. NO.- 0, RGT. COORD. 1.20000E+01, INIT. TEMP.- 1.00900E+02
 INIT. TEMP.LAST NODE.- 1.06700E+02
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 0.00000E+00 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

N	K	INIT.	COORD.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	1.00900E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
2	1.33333E+00	1.01544E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
3	2.66667E+00	1.02188E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
4	4.00000E+00	1.02833E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
5	5.33333E+00	1.03477E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
6	6.66667E+00	1.04122E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
7	8.00000E+00	1.04767E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
8	9.33333E+00	1.05411E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
9	1.06667E+01	1.06055E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
10	1.20000E+01	1.06700E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00

NO. 17 HEAT CONDUCTION STRUCTURE

M 17
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BULK. COORD., LEFT- 3 9, RGT- 14 14
 AREA ON LEFT- 1.55400E+03, LFT. COORD.- 0.00000E+00, FUSN. TEMP.- 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 ON RIGHT- 0.00000E+00
 RTCD+TBULK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 ON RIGHT- 0.00000E+00

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SEG. 1, NO. OF INCR. 9, MATL. NO. 9, RET. COORD. 1.20000E+01, INIT. TEMP. 1.00000E+02
 INIT. TEMP. LAST NODE. 1.06700E+02
 INIT. TEMP. DIST. -2
 INT. GEN. /VOL. /HR. 0.00000E+00
 INT. GEN. LAST /VOL. /HR. 0.00000E+02
 INT. GEN. DIST. 1
 HEAT GEN. MULTIPLIER SET NO. 0
 INIT. DISTANCE DIST. 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
 0.00000E+00 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

N	X	TIME	COORD.	RHO	S ² HT/MASS	HT. GEN. /VOL. /
1	0.00000E+00	1.00000E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
2	1.33333E+00	1.01544E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
3	2.66667E+00	1.02185E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
4	4.00000E+00	1.02833E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
5	5.33333E+00	1.03477E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
6	6.66667E+00	1.04122E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
7	8.00000E+00	1.04766E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
8	9.33333E+00	1.05411E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
9	1.06667E+01	1.06055E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
10	1.20000E+01	1.06700E+02	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00

NO. 18 HEAT CONDUCTION STRUCTURE

U 18
 GEOM. TYPE- 1, NO. SEGM. 1 VOL. + BOUN. COORD., LFT- 4 12, RGT- 14 14
 AREA ON LEFT- 4.32500E+02, LFT. COORD. 0.00000E+00, FUSH. TEMP. 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 ON RIGHT- 0.00000E+00
 HTCO+TRBLK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 ON RIGHT- 0.00000E+00
 SEG. 1, NO. OF INCR. 9, MATL. NO. 9, RET. COORD. 1.20000E+01, INIT. TEMP. 1.01200E+02
 INIT. TEMP. LAST NODE. 1.06700E+02
 INIT. TEMP. DIST. -2
 INT. GEN. /VOL. /HR. 0.00000E+00
 INT. GEN. LAST /VOL. /HR. 0.00000E+00
 INT. GEN. DIST. 1
 HEAT GEN. MULTIPLIER SET NO. 0
 INIT. DISTANCE DIST. 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1

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0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00
 0.000000E+00 0.000000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

THERMAL PROPS., K- 9.20000E-01, RHO- 1.45000E+02, SP. HT./MASS- 1.56000E-01

N	X	TINI.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.000000E+00	1.012000E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
2	1.333333E+00	1.018111E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
3	2.666667E+00	1.024222E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
4	4.000000E+00	1.030333E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
5	5.333333E+00	1.036444E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
6	6.666667E+00	1.042556E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
7	8.000000E+00	1.048667E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
8	9.333333E+00	1.054778E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
9	1.066667E+01	1.060889E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
10	1.200000E+01	1.067000E+02	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00

NO. 19 HEAT CONDUCTION STRUCTURE

M 19
 GEOM. 1 1, NO. SEGM. 1 "VOL. + BOUN. COMD.", LFT- 15 15, RGT- 1 2
 AREA ON LEFT- 6.62300E+02, LFT. COORD.- 0.00000E+00, FUSH. TEMP.- 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.20000E+00 0.00000E+00
 HTCD+VBLK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 0.00000E+00
 SEG. 1, NO. OF INCR.- 7, MATL. NO.- 0, RCT. CLDGD. 9.00000E+00, INIT. TEMP.- 0.97700E+01
 INIT. TEMP. LAST NODE.- 0.97900E+01
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 HT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 0
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT
 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

THERMAL PROPS., K- 9.20000E-01, RHO- 1.45000E+02, SP. HT./MASS- 1.56000E-01

N	X	TINI.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.000000E+00	8.977000E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
2	1.285714E+00	8.977286E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
3	2.571429E+00	8.977571E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00

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4	3.857143E+00	8.977857E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
5	5.142857E+00	8.978143E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
6	6.428571E+00	8.978429E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
7	7.714286E+00	8.978714E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
8	9.000000E+00	8.979000E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00

NO. 20 HEAT CONDUCTION STRUCTURE

M 20
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + VOL. COND., LEFT- 15 15, RGT- 2 5
 AREA ON LEFT- 1.31360E+03, LEFT. COORD.- 0.00000E+00, FURM. TEMP.- 1.00000E+06
 TRANS NRG+MASS, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00 0.0000E+00 0.0000E+00
 HTCO+TRULK, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00 0.0000E+00 0.0000E+00
 SEG. 1, NO. OF INCR.- 7, MATL. NO.- 0, RGT. COORD. 9.00000E+00, INIT. TEMP.- 8.97800E+01
 INIT. TEMP. LAST NODE.- 8.98100E+01
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN. MULTIPLIER SET NO.- 0
 INIT. DIST. DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT
 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

N	A	INIT.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	8.97800E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
2	1.285714E+00	8.978429E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
3	2.571429E+00	8.978857E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
4	3.857143E+00	8.979286E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
5	5.142857E+00	8.979714E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
6	6.428571E+00	8.980143E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
7	7.714286E+00	8.980571E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00
8	9.000000E+00	8.981000E+01	9.200000E-01	1.450000E+02	1.560000E-01	0.000000E+00

NO. 21 HEAT CONDUCTION STRUCTURE

M 21
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + VOL. COND., LEFT- 15 15, RGT- 3 8

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Output file: AERTR1.DAT

AREA ON LEFT- 1.55450E+03, LFT. COORD.- 0.00000E+00, FUSIL. TEMP.- 1.00000E+06
TRANS MFG-MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 0.00000E+00 0.00000E+00
HTCO+TBLK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00 0.00000E+00 0.00000E+00
SEG. 1, NO. OF INCS.- 18, NATL. NO.- 0, BGT. COORD. 2.40000E+01, INIT. TEMP.- 8.97500E+01
INIT. TEMP. LAST NODE.- 8.98100E+01
INIT. TEMP. DIST.- -2
INT. GEN./VOL./HR.- 0.00000E+00
INT. GEN. LAST/VOL./HR.- 0.00000E+00
INT. GEN. DIST.- 1
HEAT GEN. MULTIPLIER SET NO.- 0
INIT. DISTANCE DIST.- 2
HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
3.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00
0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

N	X	TIWI.	CONG.	RHO	SPRT/MASS	HT. GEN./VOL./
1	0.00000E+00	8.97500E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
2	1.33333E+00	8.97533E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
3	2.66667E+00	8.97567E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
4	4.00000E+00	8.97600E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
5	5.33333E+00	8.97633E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
6	6.66667E+00	8.97667E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
7	8.00000E+00	8.97700E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
8	9.33333E+00	8.97733E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
9	1.06667E+01	8.97767E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
10	1.20000E+01	8.97800E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
11	1.33333E+01	8.97833E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
12	1.46667E+01	8.97867E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
13	1.60000E+01	8.97900E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
14	1.73333E+01	8.97933E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
15	1.86667E+01	8.97967E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
16	2.00000E+01	8.98000E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
17	2.13333E+01	8.98033E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
18	2.26667E+01	8.98067E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
19	2.40000E+01	8.98100E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00

NO. 22 HEAT CONDUCTION STRUCTURE

SARGENT & LUNDY ENGINEERS
Output file: AEERT81.DAT

GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COND., LFT- 15 5, RGT- 4 11
 AREA ON LEFT- 4.32500E+02, LFT. COORD.- 0.00000E+00, FUSK. TEMP.- 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00 FUSK. TEMP.- 1.0000E+00
 MTCO+TRULK, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 SEG. 1, NO. OF INCR.- 7, MATL. NO.- 0, RGT. COORD.- 9.00000E+00, INIT. TEMP.- 8.97600E+01
 INIT. TEMP.LAST NODE.- 8.97600E+01
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT
 0.00000E+00 0.00000E+02 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00 0.00000E+00

INPUT PROPERTIES FOR SEGM-RT 1 ARE-

M	X	INIT.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	8.97600E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
2	1.28571E+00	8.97628E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
3	2.57142E+00	8.97657E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
4	3.85714E+00	8.97685E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
5	5.14285E+00	8.97714E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
6	6.42857E+00	8.97742E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
7	7.71428E+00	8.97771E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00
8	9.00000E+00	8.97800E+01	9.20000E-01	1.45000E+02	1.56000E-01	0.00000E+00

NO. 25 HEAT CONDUCTION STRUCTURE

M 23

GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COND., LFT- 2 1, RGT- 5 1
 AREA ON LEFT- 5.50000E+01, LFT. COORD.- 0.00000E+00, FUSK. TEMP.- 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00 FUSK. TEMP.- 1.0000E+00
 MTCO+TRULK, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 SEG. 1, NO. OF INCR.- 1, MATL. NO.- 0, RGT. COORD.- 1.45000E-01, INIT. TEMP.- 9.66000E+01
 INIT. TEMP.LAST NODE.- 9.70600E+01
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0

INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.000000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- 9.50000E-02, RHO- 2.80000E+01, SP. HT./MASS- 1.20000E-01

N	X	TIME.	COORD.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.000000E+00	9.647000E+01	9.500000E-02	2.800000E+01	1.200000E-01	0.000000E+00
2	1.458000E-01	9.796000E+01	9.500000E-02	2.800000E+01	1.200000E-01	0.000000E+00

NO. 24 HEAT CONDUCTION STRUCTURE

NO. 24
 GEOM. TYPE- 1, NO. SEGR.- 1 VOL. + BOUN. COMD., LFT- 4 10, RGT- 7 13
 AREA ON LEFT- 2.15000E+01, LFT. COORD.- 0.00000E+00, FUSH. TEMP.- 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 HTCD+TBULK, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 SEG. 1, NO. OF INCR.- 1, MATL. NO.- 0, RGT. COORD.- 1.45800E-01, INIT. TEMP.- 9.64700E+01
 INIT. TEMP.-LAST MODE.- 9.89700E+01
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAS./VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.000000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- 9.50000E-02, RHO- 2.80000E+01, SP. HT./MASS- 1.20000E-01

N	X	TIME.	COORD.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.000000E+00	9.647000E+01	9.500000E-02	2.800000E+01	1.200000E-01	0.000000E+00
2	1.458000E-01	9.897000E+01	9.500000E-02	2.800000E+01	1.200000E-01	0.000000E+00

NO. 25 HEAT CONDUCTION STRUCTURE

NO. 25
 GEOM. TYPE- 1, NO. SEGR.- 1 VOL. + BOUN. COMD., LFT- 3 1, RGT- 9 1
 AREA ON LEFT- 4.70000E+01, LFT. COORD.- 0.00000E+00, FUSH. TEMP.- 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 HTCD+TBULK, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00

SEG. 1, NO. OF INCR.- 1, MATL. NO.- 0, RGT. COORD. 1.45800E-01, INIT. TEMP.- 9.77000E+01
 INIT. TEMP.LAST P.DOE.- 9.82500E+01
 INIT. TEMP. LIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- Y.50000E-02, XHO- 2.80000E+01, SP. HT./MASS- 1.20000E-01

N	X	TINI.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.77000E+01	9.50000E-02	2.80000E+01	1.20000E-01	0.00000E+00
2	1.45800E-01	9.82500E+01	9.50000E-02	2.80000E+01	1.20000E-01	0.00000E+00

NO. 26 HEAT CONDUCTION STRUCTURE

M 26
 GEOM. TYPE- 1, NO. SEG.- 1 VAL. + BOUN. COND., LFT- 1, RGT- 11 13
 AREA ON LEFT- 4.70000E+01, LFT. COORD.- 0.00000E+00, FUSN. TEMP.- 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.0000E+00 0.0000E+00 ON RIGHT- 0.0000E+00 0.0000E+00
 HTCO+TRULK, ON LEFT- 0.0000E+00 0.0000E+00 ON RIGHT- 0.0000E+00 0.0000E+00
 SEG. 1, NO. OF INCR.- 1, MATL. NO.- 0, RGT. COORD. 1.45800E-01, INIT. TEMP.- 9.98000E+01
 INIT. TEMP.LAST WDE.- 1.00400E+02
 INIT. TEMP. DIST.- -2
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.0000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- Y.50000E-02, XHO- 2.80000E+01, SP. HT./MASS- 1.20000E-01

N	X	TINI.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.98000E+01	9.50000E-02	2.80000E+01	1.20000E-01	0.00000E+00
2	1.45800E-01	1.00400E+02	9.50000E-02	2.80000E+01	1.20000E-01	0.00000E+00

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NO. 27 HEAT CONDUCTION STRUCTURE

W 27
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BULK. COND., LFT- 1 1, RGT- 2 4
 AREA C- LEFT- 2.51000E+01, LFT. COORD.- 0.00000E+00, FUSN. TEMP.- 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00
 HTCO+TBULK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00
 SEG. 1, NO. OF INCR.- 1, MATL. NO.- 0, RGT. COORD. 1.45800E-01, INIT. TEMP.- 9.00000E+01
 INIT. TEMP.-LAST NODE.- 9.00000E+01
 INIT. TEMP. DIST.- 1
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT
 0.00000E+00
 INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- 9.50000E-02, RHO- 2.80000E+01, SP. HT./MASS- 1.20000E-01

N	X	TINI.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.00000E+01	9.50000E-02	2.80000E+01	1.20000E-01	0.00000E+00
2	1.45800E-01	9.00000E+01	9.50000E-02	2.80000E+01	1.20000E-01	0.00000E+00

NO. 28 HEAT CONDUCTION STRUCTURE

W 28
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BULK. COND., LFT 1 1, RGT- 2 4
 AREA ON LEFT- 1.30200E+02, LFT. COORD.- 0.00000E+00, FUSN. TEMP.- 1.00000E+06
 TRANS MRG+MASS, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00
 HTCO+TBULK, ON LEFT- 0.00000E+00 ON RIGHT- 0.00000E+00
 SEG. 1, NO. OF INCR.- 1, MATL. NO.- 0, RGT. COORD. 5.17000E-03, INIT. TEMP.- 9.00000E+01
 INIT. TEMP.-LAST NODE.- 9.00000E+01
 INIT. TEMP. DIST.- 1
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT
 0.00000E+00
 INPUT PROPERTIES FOR SEGMENT 1 ARE-

N	X	TINI.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.00000E+01	9.50000E-02	2.80000E+01	1.20000E-01	0.00000E+00
2	5.17000E-03	9.00000E+01	9.50000E-02	2.80000E+01	1.20000E-01	0.00000E+00

THERMAL PROPS., K- 2.70000E-01, RHO- 4.90000E+02, SP. HT./MASS- 1.20000E-01

N	X	TIME.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.00000E+01	2.70000E-01	4.90000E+02	1.20000E-01	0.00000E+00
2	5.17000E-03	0.00000E+01	2.70000E-01	4.90000E+02	1.20000E-01	0.00000E+00

NO. 29 HEAT CONDUCTION STRUCTURE

M 29
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COND., LFT- 2 4, RGT- 3 7
 AREA ON LEFT- 4.70000E+01, LFT. COORD.- 0.00000E+00, FUSN. TEMP.- 1.00000E+06
 TRANS WRG+MASS, ON LEFT- 0.0000E+00 0.0000E+00 ON RIGHT- 0.0000E+00 0.0000E+00
 HTCO+TBULK, ON LEFT- 0.0000E+00 0.0000E+00 ON RIGHT- 0.0000E+00 0.0000E+00
 SEG. 1, NO. OF INCR.- 1, MATL. NO.- 0, RGT. COORD. 1.45800E-01, INIT. TEMP.- 9.00000E-01
 INIT. TEMP.LAST INCR.- 9.00000E+01
 INIT. TEMP. DIST.- 1
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SEE NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-

THERMAL PROPS., K- 9.50000E-02, RHO- 2.80000E+01, SP. HT./MASS- 1.20000E-01

N	X	TIME.	COND.	RHO	SPHT/MASS	HT.GEN./VOL./
1	0.00000E+00	9.00000E+01	9.50000E-02	2.80000E+01	1.20000E-01	0.00000E+00
2	1.45800E-01	9.00000E+01	9.50000E-02	2.80000E+01	1.20000E-01	0.00000E+00

NO. 30 HEAT CONDUCTION STRUCTURE

M 30
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COND., LFT- 3 7, RGT- 4 10
 AREA ON LEFT- 2.15000E+01, LFT. COORD.- 0.00000E+00, FUSN. TEMP.- 1.00000E+06
 TRANS WRG+MASS, ON LEFT 0.0000E+00 0.0000E+00 ON RIGHT- 0.0000E+00 0.0000E+00
 HTCO+TBULK, ON LEFT- 0.0000E+00 0.0000E+00 ON RIGHT- 0.0000E+00 0.0000E+00
 SEG. 1, NO. OF INCR.- 1, MATL. NO.- 0, RGT. COORD. 1.45800E-01, INIT. TEMP.- 9.00000E-01
 INIT. TEMP.LAST INCR.- 9.00000E+01
 INIT. TEMP. DIST.- 1
 INT.GEN./VOL./HR.- 0.00000E+00

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INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- 9.50000E-02, RHO- 2.80000E+01, SP. HT./MASS- 1.20000E-01
 N X TINI. COMD. RHO SPHT/MASS HT.GEN./VOL./
 1 0.00000E+00 9.00000E+01 9.50000E-02 2.80000E+01 1.20000E-01 0.00000E+00
 2 1.45800E-01 9.00000E+01 9.50000E-02 2.80000E+01 1.20000E-01 0.00000E+00

NO. 31 HEAT CONDUCTION STRUCTURE

W 31
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COMD., LFT- 3 7, RGT- 4 10
 AREA ON LEFT- 9.53000E+01, LFT. COORD.- 0.00000E+00, FUSH. TEMP.- 1.00000E+06
 TRANS MRC+MASS, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 HTCO+TRULK, ON LEFT- 0.0000E+00 ON RIGHT- 0.0000E+00
 SEG. 1, NO. OF INCR.- 1, MATL. NO.- 0, RGT. COORD. 5.17000E-03, INIT. TEMP.- 9.00000E+01
 INIT. TEMP.LAST NODE.- 9.00000E+01
 INIT. TEMP. DIST.- 1
 INT.GEN./VOL./HR.- 0.00000E+00
 INT.GEN.LAST/VOL./HR.- 0.00000E+00
 INT.GEN.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00

INPUT PROPERTIES FOR SEGMENT 1 ARE-
 THERMAL PROPS., K- 2.70000E-01, RHO- 4.90000E+02, SP. HT./MASS- 1.20000E-01
 N X TINI. COMD. RHO SPHT/MASS HT.GEN./VOL./
 1 0.00000E+00 9.00000E+01 2.70000E-01 4.90000E+02 1.20000E-01 0.00000E+00
 2 5.17000E-03 9.00000E+01 2.70000E-01 4.90000E+02 1.20000E-01 0.00000E+00

NO. 32 HEAT CONDUCTION STRUCTURE

W 32
 GEOM. TYPE- 1, NO. SEGM.- 1 VOL. + BOUN. COMD., LFT- 3 7, RGT- 4 10

AREA ON LEFT- 2.74000E+01, LFT. COORD.- 0.00000E+00, FUSN. TEMP.- 1.00000E+06
 TRNS MRG+MASS, ON LEFT- 0.0000E+00 0.0000E+00 ON RIGHT- 0.0000E+00 0.0000E+00
 RTCD+TBULK, ON LEFT- 0.0000E+00 0.0000E+00 ON RIGHT- 0.0000E+00 0.0000E+00
 SEG. 1, NO. OF INCR.- 1, MATL. NO.- 0, RGT. COORD. 1.45800E-01, INIT. TEMP.- 9.00000E+01
 INIT. TEMP.LAST NODE.- 9.00000E+01
 INIT. TEMP. DIST.- 1
 INT.GEP./VOL./HR.- 0.00000E+00
 INT.GEM.LAST/VOL./HR.- 0.00000E+00
 INT.GER.DIST.- 1
 HEAT GEN.MULTIPLIER SET NO.- 0
 INIT. DISTANCE DIST.- 2
 HEAT GENERATION PROFILE FOR HEAT STRUCTURE OF EACH SEGMENT 1
 0.00000E+00
 INPUT PROPERTIES FOR SEGMENT 1 APE-
 THERMAL PROPS., K- 9.50000E-02, RHO- 2.80000E+01, SP. HT./MASS- 1.20000E-01

N	X	TINIT.	COND.	RHO	SPHT/MASS	HT.GEM./VOL./
1	0.00000E+00	9.00000E+01	9.50000E-02	2.80000E+01	1.20000E-01	0.00000E+00
2	1.45800E-01	9.00000E+01	9.50000E-02	2.80000E+01	1.20000E-01	0.0000000E+00

THE NUMBER OF BOUNDARY CONDITION CARDS EXPECTED IS 15

HEAT TRANSFER BOUNDARY CONDITION INFORMATION

BC NO	OPT NO	BC VAR 1	BC VAR 2	BC VAR 3	BC VAR 4	BC VAR 5	BC VAR 6	BC VAR 7	BC VAR 8	BC VAR 9
1	10	1.0000E+00	1.7000E+01	1.2700E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
2	10	2.0000E+00	1.7000E+01	1.2700E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
3	10	3.0000E+00	1.7000E+01	1.2700E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
4	10	1.0000E+00	1.7000E+01	1.6000E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
5	10	2.0000E+00	1.7000E+01	1.6000E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
6	10	3.0000E+00	1.7000E+01	1.6000E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
7	10	1.0000E+00	1.7000E+01	1.5700E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
8	10	2.0000E+00	1.7000E+01	1.5700E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
9	10	3.0000E+00	1.7000E+01	1.5700E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
10	10	1.0000E+00	1.7000E+01	1.2000E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
11	10	2.0000E+00	1.7000E+01	1.2000E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
12	10	3.0000E+00	1.7000E+01	1.2000E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
13	10	1.0000E+00	1.7000E+01	6.0000E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
14	10	2.0000E+00	1.7000E+01	2.0000E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0
15	10	3.0000E+00	1.7000E+01	4.0000E+01	9.4000E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+0

AEERTR.DAT, INIT.TEMP.AEER'S=90F;V(FREE)=.9*V(GROSS); FLOOR=24IN

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SINK NO. 1
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2
307.605827887430 310.528135648065 307.905555555556
308.445061728395 308.984567901235 309.524074074074
310.0635802466914 310.603086419753 311.142792592593
311.682098765432 312.221604938272 312.76 +111111111
307.905555555556 312.761111111111 26.3101409280000
26.3101409280000 -135.19924020705 -153.341643520281
64.6325947133696 2.30061846844799 3.40139892190781

SINK NO. 1
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2
307.687441497556 310.629205915680 307.605827887430
307.930528749722 308.255229612015 308.579930474308
308.904631336601 309.229332198894 309.554033061187
309.878733923480 310.203434785772 310.528135648065
307.605827887430 310.528135648065 26.3101409280000
26.3101409280000 -136.099402292694 -131.301773111079
-145.857343101634 2.23429706003704 3.66953968979645

SINK NO. 1
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2
307.670974440815 310.616155175974 307.687441497556
308.014304210681 308.341166923806 308.668029636931
308.994892350056 309.321755063181 309.648617776305
309.975480489430 310.302343202555 310.629205915680
307.687441497556 310.629205915680 26.3101409280000
26.3101409280000 -136.257456657490 -137.233533701390
-135.007566686000 2.25291570515566 3.64010139671059

SINK NO. 1
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2
307.673987573235 310.618157976135 307.670974440815
307.998216744722 308.325459048628 308.652701352535
308.979943656441 309.307185960348 309.634428264254
309.961670568161 310.288912872067 310.616155175974
307.670974440815 310.616155175974 26.3101409280000
26.3101409280000 -136.210714091855 -136.032407072717
-136.402729932256 2.24919467765072 3.64398235459245

SINK NO. 1
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2
307.673450604725 310.617826953309 307.673987573235

308.001117618001	308.328247662768	308.655377707535
308.982507752302	309.309637797068	309.636767841835
309.963897886602	310.291027931369	310.618157976135
307.673987573235	310.618157976135	26.3101409280000
26.3101409280000	-136.220242079570	-136.252027703676
-136.188510880848	2.24987687329473	3.64338836233817
SINK NO.	1	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.673545226844	310.617883591696	307.673450604725
308.000603532354	308.327756459984	308.654909387613
308.982062315242	309.309215242872	309.636368170501
309.963521098130	310.290674025760	310.617826953389
307.673450604725	310.617826953389	26.3101409280000
26.3101409280000	-136.218484775657	-136.212883961817
-136.223914160341	2.24975534319974	3.64348657693648
SINK NO.	1	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.673528619420	310.617873765365	307.673545226844
308.000693934050	308.327842641256	308.654991348462
308.982140055667	309.309288762875	309.636437470079
309.963586177285	310.290734884490	310.617883591696
307.673545226844	310.617883591696	26.3101409280000
26.3101409280000	-136.218798499880	-136.219781525628
-136.217856545760	2.24977676004475	3.64346977343733
SINK NO.	1	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.673531529633	310.617875479597	307.673528619420
308.000678080080	308.327827540741	308.654977001401
308.982126462062	309.309275922723	309.636425383383
309.963574844044	310.290724304704	310.617873765365
307.673528619420	310.617873765365	26.3101409280000
26.3101409280000	-136.218743168351	-136.218570907439
-136.218907495147	2.24977300114960	3.64347268875423
SINK NO.	1	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.673531019966	310.617875179903	307.673531529633
308.000680857407	308.327830185181	308.654979512955
308.982128840728	309.309278168502	309.636427496276
309.963576824050	310.290726151823	310.617875479597
307.673531529633	310.617875479597	26.3101409280000
26.3101409280000	-136.218752882649	-136.218783050799
-136.218724153866	2.24977365984350	3.64347218016963
SINK NO.	1	

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
307.673531109204 310.617875232341 307.673531019966
308.000660371070 308.327829722174 308.654979073278
308.982128424382 309.309277775487 309.636427126591
309.963576477695 310.290725828799 310.611875179903
307.673531019966 310.617875179903 26.3101409280000
26.3101409280000 -136.218751180151 -136.218745898020
-136.218756206898 2.24977354448614 3.64347226708406
SINK NO. 2

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
307.564664678949 310.514107541844 307.866666666667
308.410493827161 308.954320987654 309.498148148148
310.041975308642 310.585802469136 311.129629629630
311.673456790123 312.217283950617 312.761111111111
307.866666666667 312.761111111111 43.0419784320000
43.0419784320000 -223.232470593733 -253.982034686309
105.735455970001 2.36557617011625 3.40139892190781
SINK NO. 2

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
307.645745071027 310.616740330733 307.564664678949
307.892380552604 308.220096426210 308.547812299914
308.875528173569 309.203244047214 309.530959920679
309.858675794534 310.186391668189 310.514107541844
307.564664678949 310.514107541844 43.0419784320000
43.0419784320000 -224.863692153582 -216.844405350983
-241.091524128914 2.29788234581572 3.67351778203289
SINK NO. 2

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
307.629645980259 310.603679150776 307.645745071027
307.975855655439 308.305966239851 308.636076824262
308.536187403674 309.296297993086 309.626408577498
309.956519161910 310.286629746321 310.616740330733
307.645745071027 310.616740330733 43.0419784320000
43.0419784320000 -225.093620437438 -226.698902836831
-223.045147516968 2.31663636603792 3.64380886817470
SINK NO. 2

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
307.632540043867 310.605645457679 307.629645980259
307.960094110316 308.2905422374 308.620990370431
308.951438500489 309.281886630546 309.612334760604
309.942782890661 310.273231020719 310.603679150776
307.629645980259 310.603679150776 43.0419784320000
43.0419784320000 -225.023401948388 -224.735286696513

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-225.332117871254	2.31294843843788	3.64766965757731
SINK NO.	2	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.632033851436	310.605327092608	307.632540043867
307.962885089846	308.293230135825	308.523575181804
308.953920227783	309.284265273762	309.614610319762
309.944955365721	310.275300411700	310.605645457679
307.632540043867	310.605645457679	43.0419784320000
43.0419784320000	-225.037617909651	-225.088025844994
-224.987641607639	2.31361268774452	3.64708997604751
SINK NO.	2	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.632121351471	310.605380456492	307.632033851436
307.962399767122	308.292765682807	308.623131598493
308.953497514179	309.283963429865	309.614229345551
309.944595261236	310.274961176922	310.605327092608
307.632033851436	310.605327092608	43.0419784320000
43.0419784320000	-225.035034270129	-225.026321238169
-225.043411439969	2.31349654661790	3.64718386935546
SINK NO.	2	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.632106290829	310.605371383938	307.632121351471
307.962483476251	308.292845597031	308.623207719811
308.953569842591	309.283931965372	309.614294088152
309.944656210932	310.275018333712	310.605380456492
307.632121351471	310.605380456492	43.0419784320000
43.0419784320000	-225.035487486421	-225.036987199999
-225.034063264795	2.31351662392063	3.64716813209475
SINK NO.	2	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.632108878639	310.605372935284	307.632106290829
307.962469078952	308.292831867076	308.623194655199
308.953557443322	309.283920231445	309.614283019569
309.944645807692	310.275008595815	310.605371383938
307.632106290829	310.605371383938	43.0419784320000
43.0419784320000	-225.035409040286	-225.035151350928
-225.035652572740	2.31351316822100	3.64717080765198
SINK NO.	2	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.632108434282	310.605372669410	307.632108878639
307.962471551599	308.29283414560	308.623196897520
308.953559570481	309.283922243442	309.614284916402
309.944647589363	310.275010262323	310.605372935284

307.632108878639	310.605372935284	43.0419784320000
43.0419784320000	-125.035422549000	-225.035466797264
-225.035380811720	2.31351376200103	3.64717035015888
SINK NO.	2	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.632108510563	310.605372715017	307.632108434282
307.962471127074	308.292833819866	308.623196512658
308.953559205450	309.283921898242	309.614284591034
309.944647283826	310.275009976618	310.605372669410
307.632108434282	310.605372669410	43.0419784320000
43.0419784320000	-225.035420227403	-225.035412631463
-225.035427386895	2.3135136607 714	3.64717042856708
SINK NO.	3	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
308.218349473338	312.266605376464	308.588888888889
309.052469135802	309.516049382716	309.979629629630
310.443209876543	310.906790123457	311.370370370370
311.833950617284	312.297530864198	312.761111111111
308.588888888889	312.751111111111	31.5777432960000
31.5777432960000	-224.788557620373	-254.053946485345
-169.055637029303	2.50114458014606	3.56909264329822
SINK NO.	3	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
308.295929845725	312.338204150513	308.218349473338
308.668155684797	309.117961896255	309.567768107713
310.017574319172	310.467380530630	310.917186742089
311.366992953547	311.816799165005	312.266605376464
308.218349473338	312.266605376464	31.5777432960000
31.5777432960000	-224.456415854944	-218.500480936355
-232.813972685265	2.43117932442191	3.69651661290041
SINK NO.	3	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
308.280858645510	312.327322190033	308.295929845725
308.745071435146	309.194213024567	309.643354613987
310.092496203408	310.541637792829	310.990779382250
311.439920971671	311.889062561092	312.338204150513
308.295929845725	312.338204150513	31.5777432960000
31.5777432960000	-224.456415854944	-225.853266852424
-223.424646063560	2.44630918939565	3.67952465408284
SINK NO.	3	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
308.283643623202	312.329150102138	308.280858645510
308.730465706013	309.180072766515	309.629679827018

310.079286887520	310.528893948023	310.978501008525
311.428108069028	311.877715129530	312.327322190033
308.280858645510	312.327322190033	31.5777432960000
31.5777432960000	-224.635889628853	-224.421009728191
-224.848427387131	2.44339107880480	3.68213491098186

SINK NO. 3

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2		
308.283135777163	312.328830488989	308.283643623202
308.733144343084	309.182645062966	309.632145782847
310.081846502729	310.531147222611	310.980647942493
311.430148662374	311.879647382256	312.329150102138
308.283643623202	312.329150102138	31.5777432960000
31.5777432960000	-224.646341685505	-224.685534108365
-224.609183560639	2.44393106746657	3.68169715659516

SINK NO. 3

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2		
308.283227793153	312.32887425094	308.283135777163
308.732657411810	309.182179046457	309.631700681105
310.08122231752	310.530743970400	310.980265585047
311.429787219694	311.87930874362	312.328830488989
308.283135777163	312.328830488989	31.5777432960000
31.5777432960000	-224.644393795575	-224.637292855284
-224.651013307022	2.44383262730294	3.68177371914022

SINK NO. 3

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2		
308.283211160117	312.328877204824	308.283227793153
308.732745530036	309.182263266918	309.631781003800
310.081298740683	310.530816477565	310.980334214447
311.429851951330	311.879369688212	312.32887425094
308.283227793153	312.32887425094	31.5777432960000
31.5777432960000	-224.644749878885	-224.646033471608
-224.643561653141	2.44385046279941	3.68176008087357

SINK NO. 3

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2		
308.283214163767	312.328879045218	308.283211160117
308.732729609529	309.182248054941	309.631766508353
310.081284957765	310.530803407177	310.980221856588
311.429840306000	311.879358755412	312.328877204824
308.283211160117	312.328877204824	31.5777432960000
31.5777432960000	-224.644685286494	-224.644453491277
-224.64499253984	2.44384723647746	3.68176252902014

SINK NO. 3

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2		
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308.283213621572	312.328878713387	308.283214163767
308.732732483929	309.182250804090	309.631769124251
310.081287444412	310.530805764573	310.980324084735
311.429842404896	311.879360725057	312.328879045218
308.283214163767	312.328879045218	31.5777432960000
31.5777432960000	-224.644696967435	-224.644738809313
-224.644658388137	2.44384782073736	7.68176208817574

SINK NO. 3

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2

308.283213719429	312.328878713249	308.283213621572
308.732731965107	309.182250308642	309.631768652177
310.081286995712	310.530805339247	310.980323682782
311.429842026317	311.879360369852	312.328878713387
308.283213621572	312.328878713387	31.5777432960000
31.5777432960000	-224.644694857670	-224.644687305919
-224.644701817331	2.44384771563237	5.68176216766199

SINK NO. 4

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2

307.570010123416	310.518320416460	307.866666666667
308.412345679012	308.958024691358	309.503703703704
310.049382716049	310.595061728395	311.140710740741
311.686419753086	312.232098765432	312.7777.7777778
307.866666666667	312.777777777778	2.62915603200000
2.62915603200000	-13.6305914971211	-15.4704433562585
6.62350481995592	2.35891647326517	3.40951307282267

SINK NO. 4

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2

307.649113415529	310.617518811961	307.570010123416
307.897600155976	308.225190188537	308.552780221097
308.880370253658	309.207960286218	309.535550318779
309.863140351339	310.190730383900	310.518320416460
307.570010123416	310.518320416460	2.62915603200000
2.62915603200000	-13.7234949293042	-13.2467160514183
-14.6812670815043	2.29248281095920	3.67232574247147

SINK NO. 4

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2

307.633413142497	310.604844075214	307.649113415529
307.978936237355	308.308759059181	308.638581881007
308.968040702832	309.298227524658	309.628050346484
309.957873168310	310.287695990135	310.617518811961
307.649113415529	310.617518811961	2.62915603200000
2.62915603200000	-13.7374825310517	-13.8328669013497
-13.6160644661816	2.31075318357248	3.64357798854412

SINK NO. 4
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
307.636238703691 310.606757552435 307.633413142497
307.963572135021 308.293731127545 308.623890120069
308.954049112594 309.284208105118 309.614367097642
309.944526090166 310.274685082690 310.604844075214
307.637413142497 310.604844075214 2.6291560320000
2.62915603200000 -13.7332658157626 -13.7161262837
-13.7516148949537 2.30716089055426 3.647326297

SINK NO. 4
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
307.635743761641 310.606446992469 307.636238703691
307.966296353552 308.296354003412 308.626411653273
308.956469303133 309.286526952993 309.616584602854
309.9466642252714 310.276699902575 310.606757552435
307.636238703691 310.606757552435 2.62915603200000
2.62915603200000 -13.7341182487256 -13.7371213536375
-13.7311406289657 2.30780861312194 3.64676188103193

SINK NO. 4
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
307.635829458898 310.606499156629 307.635743761641
307.965821898399 308.295900035158 308.625978171917
308.956056308675 309.286134445434 309.616212582193
309.946290718952 310.276368855710 310.606446992469
307.635743761641 310.606446992469 2.62915603200000
2.62915603200000 -13.7339632189236 -13.7334432687469
-13.7344633765496 2.30769519305516 3.64683352135203

SINK NO. 4
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
307.635814683067 310.606490271006 307.635829458898
307.965903869757 308.295978280616 308.626052691475
308.956127102334 309.286201513193 309.616275924052
309.946350334911 310.276424745770 310.606499156629
307.635829458898 310.606499156629 2.62915603200000
2.62915603200000 -13.7339904504613 -13.7340801064878
-13.7339052541632 2.30771483247163 3.64683812965578

SINK NO. 4
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
307.635817226403 310.606491793187 307.635814683067
307.965889748393 308.295964813720 308.626039879047
308.956114944373 309.286190009700 309.616265075026
309.946340140353 310.276415205679 310.606490271006
307.635814683067 310.606490271006 2.62915603200000

2.62915603200000	-13.7339857294727	-13.7339702982062
-13.7340003243201	2.3771144629936	3.64684075149856
SINK NO.	4	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.635816788909	310.606491531840	307.635817226403
307.965892178268	308.295967130133	308.626042081998
308.956117033862	309.286191985727	309.616266937592
309.946341889457	310.276416841322	310.606491793187
307.635817226403	310.606491793187	2.62915603200000
2.62915603200000	-13.7339865438308	-13.7339891982524
-13.7339840380035	2.30771202915582	3.64684030235582
SINK NO.	4	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.635816864145	310.606491576751	307.635816788909
307.965891760346	308.295966731782	308.626041703219
308.956116674656	309.286191646093	309.616266617529
309.946341588956	310.276416560403	310.606491531840
307.635816788909	310.606491531840	2.62915603200000
2.62915603200000	-13.7339864036311	-13.7339859471462
-13.7339868342441	2.30771192889535	3.64684037947035
SINK NO.	5	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.614374234828	310.531048177811	307.916666666667
308.45492271605	308.993209876543	309.531481451481
310.069753086420	310.608024691358	311.546396296296
311.684567901235	312.222839506173	312.761111111111
307.916666666667	312.761111111111	36.1578631680000
36.1578631680000	-185.445283214505	-210.447470988013
85.8241722430835	2.28743088793074	3.4039892199778
SINK NO.	5	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.696531282587	310.631935708644	307.614374234828
307.938449117382	308.262523999935	308.586598882489
308.910673765042	309.234748647596	309.558823530150
309.882898412703	310.206973295257	310.531048177811
307.614374234828	310.531048177811	36.1578631680000
36.1578631680000	-186.636187582458	-180.039182718446
-200.019194489708	2.22074770762237	3.66871057977358
SINK NO.	5	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.679911391036	310.618951805632	307.696531282587
308.022687329926	308.348843377266	308.674999424606
309.001155471946	309.327311519285	309.653467566625

309.979623613965	310.305779661304	310.631935708644
307.696531282587	310.631935708644	36.1578631680000
36.1578631680000	-186.861009557359	-188.206775597218
-185.139314149088	2.23943582903417	3.63928651430852
SINK NO.	5	
IN SINK TS1, TS2, (TN(W), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.682963181373	310.620869487561	307.679911391036
308.006460325991	308.333009260946	308.659558195901
308.986107130856	309.312656065811	309.639205000767
309.965753935722	310.292302870677	310.618851805632
307.679911391036	310.618851805632	36.1578631680000
36.1578631680000	-186.795259826538	-186.548559751101
-187.061048446758	2.23589127423077	3.66318245190546
SINK NO.	5	
IN SINK TS1, TS2, (TN(W), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.682417186499	310.620534410974	307.682963181373
308.009397215394	308.335831249414	308.662265283435
308.988699317456	309.315133351477	309.641567385498
309.968001419519	310.294435453540	310.620869487561
307.682963181373	310.620869487561	36.1578631680000
36.1578631680000	-186.808670239334	-186.852820875059
-186.764537963182	2.23638020356461	3.64258326457297
SINK NO.	5	
IN SINK TS1, TS2, (TN(W), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.682513794265	310.620592004975	307.682417186499
308.008874655885	308.335332125271	308.661789594657
308.988247064044	309.314704533430	309.641162002816
309.967619472202	310.294076941586	310.620534410974
307.682417186499	310.620534410974	36.1578631680000
36.1578631680000	-186.806189701960	-186.798378164711
-186.813775501508	2.23625699198180	3.64268281210752
SINK NO.	5	
IN SINK TS1, TS2, (TN(K), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.682496767271	310.620581968683	307.682513794265
308.008966928788	308.335420963312	308.661273197835
308.988326332359	309.314779466882	309.641232601405
309.967685735929	310.294138870452	310.620592004975
307.682513794265	310.620592004975	36.1578631680000
36.1578631680000	-186.806634178345	-186.808010965139
-186.805312288167	2.23627879432422	3.64266570271649
SINK NO.	5	
IN SINK TS1, TS2, (TN(W), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.682499763625	310.620583727135	307.682496767271

308.008950678539	308.335404589807	308.661858501075
308.988312412343	309.314766323611	309.641220234879
309.967674146147	310.294128057415	310.620581968683
307.682496767271	310.620581968683	36.1578631680000
36.1578631680000	-186.806555471122	-186.806313189110
-186.806787078732	2.23627495173358	3.64266868422187

SINK NO. 5

IN SINK TS1, TS2, (TM(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2

307.682499236644	310.620583418389	307.682499763625
308.008953537349	308.335407311072	308.661861084795
308.988314858518	309.314768632242	309.641222400000
309.967676179688	310.294129953411	310.620583727135
307.682499763625	310.620583727135	36.1578631680000
36.1578631680000	-186.806569346803	-186.806611957941
-186.806528681644	2.23627562794145	3.64266816183553

SINK NO. 5

IN SINK TS1, TS2, (TM(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2

307.682499329306	310.620583472642	307.682499236644
308.008953034616	308.335406832588	308.661860630559
308.988314428531	309.314768226503	309.641222024474
309.967675822446	310.294129620418	310.620583418389
307.682499236644	310.620583418389	36.1578631680000
36.1578631680000	-186.806566904745	-186.806559412239
-186.806574050447	2.23627550901405	3.64266825355502

SINK NO. 6

IN SINK TS1, TS2, (TM(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2

307.871966866152	311.230643254437	308.288888888889
308.785802469136	309.282716049383	309.779629629630
310.276543209877	310.773456790123	311.270370370370
311.767283950617	312.264197530864	312.761111111111
308.288888888889	312.761111111111	23.6809848960000
23.6809848960000	-139.859855385793	-163.186499548706
-28.3375896049196	2.36264062638619	3.07707166215970

SINK NO. 6

IN SINK TS1, TS2, (TM(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2

308.037404068737	311.489949369978	307.871966866152
308.245153131517	308.618339396883	308.991525662248
309.364711927613	309.737898192978	310.111084458343
310.484270723709	310.857456989074	311.230643254439
307.871966866152	311.230643254439	23.6809848960000
23.6809848960000	-143.768684660555	-134.844457204714
-166.225890772935	2.27791593203102	3.65715363142449

SINK NO. 6

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
308.000684572490 311.457487385541 308.037404068737
308.421020213319 308.804636357901 309.188252502484
309.571868647066 309.955484791648 3.0.339100936231
310.722717080813 311.106333225395 311.489949369978
308.037404068737 311.489949369978 23.6809848960000
23.6809848960000 -143.945973246062 -145.956891767965
-141.185124137316 2.31258656871604 3.59143363285958

SINK NO. 6

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
308.007760282326 311.462524744675 308.000684572490
308.384773773940 308.768862975391 309.152952176841
309.537041378291 309.921130579741 310.305219781191
310.689308982641 311.073398184091 311.457487385541
308.000684572490 311.457487385541 23.6809848960000
23.6809848960000 -143.861093549000 -143.474065260382
-144.290539842372 2.30501790961755 3.60003052539391

SINK NO. 6

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
308.006443381342 311.461674615221 308.007760282326
308.391623000364 308.775485718403 309.159348436442
309.543211154481 309.927073872520 310.310936590559
310.694799308597 311.078662026636 311.462524744675
308.007760282326 311.462524744675 23.6809848960000
23.6809848960000 -143.880530550663 -143.952459367846
-143.808081792836 2.30648182069714 3.59870394059131

SINK NO. 6

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
308.006684632793 311.461824414634 308.006443381342
308.390357962884 308.774272544426 309.158187125968
309.542101707510 309.926016289052 310.309930870594
310.693845452136 311.077760033678 311.461674615221
308.006443381342 311.461674615221 23.6809848960000
23.6809848960000 -143.876722363399 -143.863546822221
-143.889489192186 2.30620956245100 3.59892801189838

SINK NO. 6

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
308.006640678633 311.461797547602 308.006684632793
308.390589052997 308.774493473202 309.158397893407
309.542302313611 309.926206733816 310.310111.54020
310.694015574225 311.077919994430 311.461824414634
308.006684632793 311.461824414634 23.6809848960000
23.6809848960000 -143.877433894657 -143.879834428904

-143.875144145816	2.30625944595618	3.59888853441119
SINK NO.	6	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,YDEN,DEN1,DEN2,H1,H2		
308.006648668714	311.461802401420	308.006640678633
308.390546997407	308.774453316182	309.158359634956
309.542265953730	309.926172272505	310.310078591279
310.693984910054	311.077891228828	311.461797547602
308.006640678633	311.461797547602	23.6809848960000
23.6809848960000	-143.677303296382	-143.876866923861
-143.877716964897	2.30625035779191	3.59889561500897
SINK NO.	6	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2		
308.006647217514	311.461801521999	308.006648668714
308.39054639015	309.774460609315	309.158366579616
309.542272549917	309.926178520217	310.310084490513
310.693990460819	311.077896431119	311.461802401420
308.006648668714	311.461802401420	23.6809848960000
23.6809848960000	-143.877327106038	-143.877406362327
-143.877252157081	2.30625200986534	3.59889433582871
SINK NO.	6	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2		
308.006647480998	311.461801681516	308.006647217514
308.390533251346	308.774459285177	309.158365319009
309.542271522841	309.926177386673	310.310083420504
310.693989454336	311.077895488168	311.461801521999
308.006647217514	311.461801521999	23.6809848960000
23.6809848960000	-143.877322776688	-143.877308386694
-143.877336371532	2.30625170980748	3.59889456759239
SINK NO.	6	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2		
308.006647433166	311.461801652568	308.006647480998
308.390533503278	308.774459525558	309.158365547837
309.542271570117	309.926177592397	310.310083614676
310.693989636956	311.077895659236	311.461801681516
308.006647480998	311.461801681516	23.6809848960000
23.6809848960000	-143.877323563089	-143.877326175424
-143.877321096039	2.30627176428683	3.59889452555324
SINK NO.	7	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2		
307.821676428569	311.217355136773	308.233333333333
308.736419753086	309.239506172840	309.742592592593
310.245679012346	310.748765432099	311.251851851852
311.754938271605	312.258024691358	312.761111111111

308.233333333333	312.761111111111	111.669454080000
111.669454080000	-665.803670479420	-777.699078695478
-133.628021597149	2.43412270578555	3.07707166215970
SINK NO.	7	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.984367837829	311.474089865503	307.821676428369
308.198418507081	308.575160585792	308.951902664504
309.328644743215	309.705386821927	310.082128900639
310.458879979350	310.835613058062	311.212355136773
307.821676428369	311.212355136773	111.669454080000
111.669454080000	-685.252108735549	-642.572776182572
-792.271137441063	2.34919249318555	3.66155265736559
SINK NO.	7	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.948820696788	311.441786066314	307.984367837829
308.372114729792	308.759861621756	309.147608513720
309.535355405684	309.923102297648	310.310849189610
310.698596081576	311.086342973539	311.474089865503
307.984367837829	311.474089865503	111.669454080000
111.669454080000	-685.888976979016	-695.351604720082
-672.918216818336	2.38381575059605	3.59564796516098
SINK NO.	7	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.955546164358	311.446699060183	307.948820696788
308.336927957846	308.725035218905	309.113142479963
309.501249741022	309.889357002080	310.277464263138
310.665571524197	311.053678785255	311.441786066314
307.948820696788	311.441786066314	111.669454080000
111.669454080000	-685.533078225190	-683.748350258672
-687.510434922622	2.37637597555464	3.60414816293521
SINK NO.	7	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.954319026240	311.445888128450	307.955546164358
308.343452041672	308.731357918986	309.119263796300
309.507169673614	309.895075550928	310.282981428241
310.670887305555	311.058793182869	311.446699060183
307.955546164358	311.446699060183	111.669454080000
111.669454080000	-685.614805738451	-685.943643275306
-685.288543823540	2.37778878527065	3.60286253829873
SINK NO.	7	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.954319026240	311.446027860159	307.954319026240
308.342271148708	308.730223271176	309.118175393643

309.50612751611 309.894079638579 310.282031761047
 310.669983883515 311.057936005982 311.445888128450
 307.954319026240 311.445888128450 111.669454080000
 111.669454080000 -685.596999006779 -685.540528859401
 -685.655220616245 2.37753118475133 3.60307491593119
 SINK NO. 7
 IN SINK TSI, TSE, (TW(N), M-IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2
 307.954499964704 311.446003344960 307.954539255068
 308.342482433412 308.730425611755 309.118348790098
 309.506311968442 309.894255146785 310.282198325129
 310.670141503472 311.053084681816 311.446027860159
 307.954539255068 311.446027860159 111.669454080000
 111.669454080000 -685.601900381810 -685.612332082545
 -605.592030707972 2.37757742112751 3.60303832604967

SINK NO. 7
 IN SINK TSI, TSE, (TW(N), M-IN, INF), TTS1, TTS2, AREA, TDEN, DEN1, DEN2, H1, H2
 307.954506957182 311.446007678627 307.954499964704
 308.342444784732 308.730389604761 309.118334424789
 309.506279244818 309.894224064846 310.282168884874
 310.670113704903 311.0580958524931 311.446003344960
 307.954499964704 311.446003344960 111.669454080000
 111.669454080000 -685.601378289699 -685.599521773666
 -685.605121940749 2.37756917242665 3.60304474571884

SINK NO. 7
 IN SINK TSI, TSE, (TW(N), M-IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2
 307.954505713934 311.446006910200 307.954506957182
 308.342451481787 308.730396006392 309.118340930897
 309.5062805055602 309.894229980207 310.282168884874
 310.670118629417 311.058063154022 311.446007678627
 307.954506957182 311.446007678627 111.669454080000
 111.669454080000 -685.601471526959 -685.601801611819
 -685.601162350427 2.37757064044825 3.60304361089193

SINK NO. 7
 IN SINK TSI, TSE, (TW(N), M-IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2
 307.954505934895 311.446007046622 307.954505713934
 308.342450291297 308.730394868660 309.118339446023
 309.506280423306 309.894225500713 310.282173178111
 310.670117753474 311.058062332837 311.446006910200
 307.954505713934 311.446006910200 111.669454080000
 111.669454080000 -685.601454926792 -685.601394261260
 -685.601539816428 2.37757037943727 3.60304381217465

SINK NO. 8
 IN SINK TSI, TSE, (TW(N), M-IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2

307.817834737924	311.210958106045	308.227777777778
308.731481481481	309.235185185185	309.738888888889
310.242592592593	310.746296296296	311.250000000000
311.753703703704	312.257407407407	312.761111111111
308.227777777778	312.761111111111	51.3103489920000
51.3103489920000	-306.146833296246	-357.464350966361
-61.3999636673091	2.43970409266398	3.07707166215970

SINK NO.

B

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2

307.980126608996	311.472817481732	307.817834737924
307.194848445493	308.571862153062	308.948875860631
309.325889568200	309.792903275769	310.079916983338
310.456930690907	310.833944398476	311.210958106045
307.817834737924	311.210958106045	51.3103489920000
51.3103489920000	-315.130378230142	-295.51957505477
-364.331847482415	2.501476101748	3.66188730888587

SINK NO.

B

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2

307.944703139247	311.440341297398	307.980126608996
308.368203372633	308.756280136271	309.144356899908
309.532433663545	309.920510427182	310.308587190620
310.696663954457	311.084740718094	311.472817481732
307.980126608996	311.472817481732	51.3103489920000
51.3103489920000	-315.414344169143	-319.757649654939
-509.459025389955	2.38959504796090	3.59598488746169

SINK NO.

B

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2

307.951395972803	311.445441587505	307.944703139247
308.333129601264	308.721556063281	309.109982525797
309.493608947354	309.886835449331	310.275201911348
310.663688373364	311.052114835381	311.440541297398
307.944703139247	311.440541297398	51.3103489920000
51.3103489920000	-315.252610733355	-314.436545160563
-316.158903670114	2.38217204104260	3.69447348274216

SINK NO.

B

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2

307.950778686855	311.444634242751	307.951395972803
308.333129601264	308.727850553868	309.116077014370
309.532433663545	309.892532425415	310.280759715937
310.696663954457	311.757274296982	311.445441587505
307.951395972803	311.445441587505	51.3103489920000
51.3103489920000	-315.289779422080	-315.438899930866
-315.140515682000	2.38357971508795	3.60319183243970

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 Output file: AECRTR1.DAT

SINK NO. 8
 IN SINK T61, T62, (TN(N)), M=10, INF), T101, T102, AREA, AR, TDEN, DEN1, DEN2, M1, M2
 307.95035095149397 311.444773103613 307.950363152382
 308.338460748644 308.726722810232 309.115159793569
 309.503260933809 309.871541995597 310.279956434755
 310.668080119174 311.056301180962 311.444753075942
 307.950176486655 311.444834242751 51.3103489920000
 310.668221118310 315.283596289040 -315.283596289040
 307.950363152382 2.38536119211387 3.60337206223530

SINK NO. 8
 IN SINK T61, T62, (TN(N)), M=10, INF), T101, T102, AREA, AR, TDEN, DEN1, DEN2, M1, M2
 307.950356239293 311.444748784421 307.950363152382
 308.338659366532 308.72692583667 309.115187809882
 309.503452017938 309.891716235073 310.279950452208
 310.66824669314 311.056508886478 311.444773103613
 307.950395167397 311.444773103613 51.3103489920000
 310.668221118310 315.2835912763880 -315.2835912763880
 307.950363152382 2.3853663799808 3.60336662055529

SINK NO. 8
 IN SINK T61, T62, (TN(N)), M=10, INF), T101, T102, AREA, AR, TDEN, DEN1, DEN2, M1, M2
 307.950363152382 311.444753075942 307.950363152382
 308.338662297640 308.726899150688 309.115153796335
 309.503419592653 309.891685451831 310.279951269378
 310.668217107726 311.056682946073 311.444748784421
 307.950356239293 310.668217107726 51.3103489920000
 310.668221118310 315.283676231123 -315.283676231123
 307.950363152382 2.38536119211387 3.60337218544252

SINK NO. 8
 IN SINK T61, T62, (TN(N)), M=10, INF), T101, T102, AREA, AR, TDEN, DEN1, DEN2, M1, M2
 307.950361925340 311.444752316302 307.950363152382
 308.338622699644 308.726894246507 309.115159793569
 309.503425540631 309.89169087403 310.279956434755
 310.66821981817 311.056467520980 311.444753075942
 307.950353152382 311.444753075942 51.3103489920000
 310.668221118310 315.283718402759 -315.283718402759
 307.950363152382 2.38536266526595 3.60337206223530

SINK NO. 8
 IN SINK T61, T62, (TN(N)), M=10, INF), T101, T102, AREA, AR, TDEN, DEN1, DEN2, M1, M2
 307.950362145049 311.444752650953 307.950361925340
 308.338627524336 308.726893123532 309.115158722327
 309.503424321323 309.891689920319 310.27995519215
 310.668221118310 311.056486717306 311.444752316302
 307.950361925340 311.444752316302 51.3103489920000

51.3103489920000	-315.283710907032	-315.283684283198
-315.28373578999	2.38336238732160	3.60337226106067
SINK NO.	9	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.862367594462	311.227152479295	308.277777777778
308.775925925926	309.274074074076	309.772222222222
310.270370370370	310.768518518518	311.266666666667
311.764814814815	312.262962962963	312.761111111111
308.277777777778	312.761111111111	15.1339052160000
15.1339052160000	-89.5433765455927	-104.481151215387
-18.1098208969876	2.37606192898413	3.07707166215975
SINK NO.	9	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
308.027206973728	311.486896920579	307.862367594462
308.236232581665	308.610097568869	308.983962556073
309.357827543277	309.731692530480	310.105557517684
310.479422504888	310.853287492092	311.227152479295
307.862367594462	311.227152479295	15.1339052160000
15.1339052160000	-92.0689821920752	-86.3527181473878
-106.448371320144	2.29139679527087	3.65799548228439
SINK NO.	9	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.990726718139	311.454472116082	308.027206973728
308.411616967823	308.796026961917	309.180436956012
309.564846950106	309.949256944201	310.333666938296
310.718076932390	311.102486926485	311.486896920579
308.027206973728	311.486896920579	15.1339052160000
15.1339052160000	-92.1769055204853	-93.4610878001133
-90.4141399717620	2.32604327721286	3.59224689658623
SINK NO.	9	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.997731948369	311.459483959274	307.990726718139
308.375587317911	308.760447917682	309.145308517453
309.530169117225	309.915029716996	310.299890316768
310.684750916539	311.069611516311	311.454472116082
307.990726718139	311.454472116082	15.1339052160000
15.1339052160000	-92.1238576697901	-91.8780582251256
-92.3969756513462	2.31850199842552	3.60082329910430
SINK NO.	9	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
307.996433088912	311.458641756313	307.997731948369
308.382371060692	308.76701073015	309.151649285337
309.536288397660	309.920927509983	310.305566622305

310.690205734628	311.074844846951	311.459483959274
307.997731947369	311.459483959274	15.1339052160000
15.1339052160000	-92.1360101746386	4.1816131136701
-92.0901315319373	2.31995554276727	3.59950505358090
SINK NO.	9	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAN, AR, TDEN, DEN1, DEN2, H1, H2		
307.996670101559	311.458789523320	307.996433088912
308.381122940845	308.765812792779	309.150502644712
309.535192496646	309.919882348579	310.304572200513
310.689262052446	311.073951904380	311.458641756313
307.996433088912	311.458641756313	15.1339052160000
15.1339052160000	-92.1336351770690	-92.1253146320514
-92.1416852167888	2.31968623239384	3.59972676214915
SINK NO.	9	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAN, AR, TDEN, DEN1, DEN2, H1, H2		
307.996627092617	311.458763132324	307.996670101559
308.381350037310	308.766029973061	309.150709908812
309.535389844564	309.920069780315	310.304749716066
310.689429651817	311.074109587569	311.458789523320
307.996670101559	311.458789523320	15.1339052160000
15.1339052160000	-92.1340774124508	-92.1355873125414
-92.1326397013022	2.31973538210742	3.59968796820177
SINK NO.	9	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAN, AR, TDEN, DEN1, DEN2, H1, H2		
307.996634879262	311.458763132324	307.996627092617
308.381308874807	308.765997768395	309.150672439186
309.535354221376	309.9200342102095	310.304717785755
310.689399567944	311.074081350134	311.458763132324
307.996627092617	311.458763132324	15.1339052160000
15.1339052160000	-92.1339965493133	-92.1337231873170
-92.1342552102839	2.31972646349015	3.59969481478143
SINK NO.	9	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAN, AR, TDEN, DEN1, DEN2, H1, H2		
307.996633470756	311.458767023645	307.996634879262
308.381316323828	308.765997768395	309.150679212962
309.535360657528	309.920042102095	310.304723546662
310.689404991229	311.074086435795	311.458767880362
307.996634879262	311.458767880362	15.1339052160000
15.1339052160000	-92.1340112334584	-92.1340606812274
-92.1339645617036	2.31972807818725	3.59969356501878
SINK NO.	9	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAN, AR, TDEN, DEN1, DEN2, H1, H2		
307.996633725447	311.458767178497	307.996633470756

308.381314976632	308.76599648209	309.150677988385
309.535359494262	309.920041000138	310.304722506015
310.689404011891	311.074085517768	311.458767023645
307.996833470756	311.458767023645	15.1339052160000
15.1339052160000	-92.1340085741493	-92.133996328195
-92.1340170051868	2.31972778610916	3.59969379052123

SINK NO. 10

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTST, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2

307.862367594462	311.227152479295	308.277777777778
308.775925925926	309.274074074074	309.772222222222
310.270376370370	310.768518518518	311.266666666667
311.764814814815	312.262962962963	312.761111111111
308.277777777778	312.761111111111	45.6246829440000
45.6246829440000	-269.949369070231	-314.982770791140
-54.5962740485612	2.37606192898 '3	3.07707166215975

SINK NO. 10

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTST, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2

308.027206973728	311.486896920579	307.862367594462
308.236232581665	309.610097568869	308.983962556073
309.357827543277	309.731692530480	310.103557517584
310.479422504888	310.853287192092	311.227152479295
307.862367594462	311.227152479295	45.6246829440000
45.6246829440000	-277.563395669295	-260.330386017079
-320.913414090379	2.29139679527087	5.65799548228439

SINK NO. 10

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTST, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2

307.990726718139	311.454472116082	308.027206973728
308.411616967823	308.796026969917	309.180436956012
309.561846950106	309.949256944001	310.333666938296
310.718076932390	311.102486926485	311.486896920579
308.027206973728	311.486896920579	45.6246829440000
45.6246829440000	-277.880755685146	-281.760222336621
-272.574488275823	2.32604327721286	3.59224689658623

SINK NO. 10

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTST, TTS2, AREA, AR, TDEN, DEN1, DEN2, H1, H2

307.997731948369	311.459483959274	307.990726718139
308.37587317911	308.760447917682	309.149308517453
309.530169117225	309.915029716996	310.299890316768
310.684750916539	311.069811516311	311.454472116082
307.990726718139	311.454472116082	45.6246829440000
45.6246829440000	-277.728830580933	-276.987810892321
-278.552208363266	2.31850199842552	3.60082329910430

SINK NO. 10

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,ARE: %_AR,TDEN, DEN1, DEN2, H1, H2
307.996433088912 311.458641756313 307.997731948369
308.382371060692 308.767010173015 309.151649285337
309.536288397660 309.920927509983 310.305566622305
310.690205734628 311.074844846951 311.459483959274
307.997731948369 311.459483959274 45.6246829440000
45.6246829440000 -277.765467137907 -277.902947821506
-277.627155281365 2.31995554276727 3.59950505358090
SINK NO. 10

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN, DEN1, DEN2, H1, H2
307.996670101559 311.458789523320 307.996433088912
308.381122940845 308.765812792779 309.150502644712
309.535192496646 309.919882348579 310.304572200513
310.689262052446 311.073951904380 311.458641756313
307.9964330889 311.458641756313 45.6246829440000
45.6246829440000 -277.758307154442 -277.733222933090
-277.782575874555 2.31968623239384 3.59972676214915
SINK NO. 10

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN, DEN1, DEN2, H1, H2
307.996627092617 311.458763132324 307.996670101559
308.381350037310 308.766029973061 309.150709908812
309.535389844564 309.920069780315 310.304749716666
310.689429651817 311.074109587569 311.458789523320
307.996670101559 311.458789523320 45.6246829440000
45.6246829440000 -277.759640376026 -277.764192321603
-277.755306060832 2.31973538210742 3.59968786820177
SINK NO. 10

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN, DEN1, DEN2, H1, H2
307.996634879262 311.458767880362 307.996627092617
308.381308874807 308.765990656996 309.150672439186
309.535354221376 309.920036003565 310.304717717555
310.689399587948 311.074081350134 311.458763132324
307.996627092617 311.458763132324 45.6246829440000
45.6246829440000 -277.759396595260 -277.758572481838
-277.760176389014 2.31972646349015 3.59969481478143
SINK NO. 10

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN, DEN1, DEN2, H1, H2
307.996633470756 311.458767023645 307.996634879262
308.381516323928 308.765997768395 309.150679212962
309.535360657528 309.920042102095 310.304723546662
310.689404991229 311.074086435795 311.458767880362
307.996634879262 311.458767880362 45.6246829440000
45.6246829440000 -277.759440864056 -277.759589935855

-277.759300161158	2.31972807818725	3.59969356501878
SINK NO.	10	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2		
307.996633725447	311.458767178407	307.996633470756
308.381314978632	308.765996432509	309.150677988385
309.535359494262	309.920041000138	310.304722506015
310.589404011891	311.074085517768	311.458767023645
307.996633470756	311.458767023645	45.6246829440000
45.6246829440000	-277.759432846929	-277.759405891207
-277.759458264250	2.31972778610916	3.59969379052123
SINK NO.	11	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2		
307.862367594462	311.227152479295	308.277777777778
308.775925925526	309.274074074074	309.772222222222
310.270370370370	310.768518518518	311.266666666667
311.764814814815	312.262962962963	312.761111111111
308.277777777778	312.761111111111	19.7326056960000
19.7326056960000	-136.752689860552	-136.229567330560
23.6128051474535	2.5606192898413	3.07707166215975
SINK NO.	11	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2		
308.027206973728	311.486896920579	307.862367594462
308.236232581665	308.610097568869	308.983962556073
309.357827543277	309.731692530480	310.105557517684
310.479422504888	310.853287492092	311.227152479295
307.862367594462	311.227152479295	19.7326056960000
19.7326056960000	-120.045744736628	-112.592494380019
-138.794561500298	2.29139679527087	3.65799548228439
SINK NO.	11	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2		
307.990726718139	311.454472116082	308.027206973728
308.411616967823	308.796026961917	309.180436956012
309.564846950106	309.949256944201	310.333666935296
310.718076932390	311.102486926485	311.486896920579
308.027206973728	311.486896920579	19.7326056960000
19.7326056960000	-120.186462446600	-121.860865870921
-117.688049907933	2.32604327721286	3.59224689658623
SINK NO.	11	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2		
307.997731948369	311.459483959274	307.990726718139
308.375587317911	308.760447917682	309.145398517453
309.530169117225	309.915029716996	310.296890316768
310.684750916539	311.069611516311	311.454472116082

307.990726718139	311.454472116082	19.7326056960000
19.7326056960000	-120.117295083262	-119.796815195611
-120.473404716672	2.31850199842552	3.60082329910430
SINK NO.	11	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEH1,DEH2,H1,H2		
307.996433088912	311.458641756313	307.997731948369
308.382371060692	308.767010173015	309.151649285337
309.536288397660	309.920927509983	310.305566622305
310.690205734628	311.074844846951	311.459483559274
307.997731948369	311.459483959274	19.7326056960000
19.7326056960000	-120.133140338203	-120.192600523901
-120.073320671476	2.31995554276727	3.59950505358090
SINK NO.	11	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEH1,DEH2,H1,H2		
307.996670101559	311.458789523320	307.996433088912
308.381122940845	308.765812792779	309.150502644712
309.535192496646	309.919882348579	310.304572200513
310.689262052446	311.073951904380	311.458641756313
307.996433088912	311.458641756313	19.7326056960000
19.7326056960000	-120.130043656289	-120.119194768863
-120.140539840675	2.31968623239384	3.5997267214915
SINK NO.	11	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEH1,DEH2,H1,H2		
307.996627092617	311.458763132324	307.996670101559
308.381350037310	308.766029973061	309.150709908812
309.535389844564	309.920069780315	310.304749716066
310.689429651817	311.074109587569	311.458789523320
307.996670101559	311.458789523320	19.7326056960000
19.7326056960000	-120.130620272588	-120.132586982098
-120.128745687886	2.31973536210742	3.59968786820177
SINK NO.	11	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEH1,DEH2,H1,H2		
307.996634879262	311.458767880362	307.996627092617
308.381308874807	308.765990656996	309.150672439186
309.535354221376	309.920036003565	310.304717785755
310.689399567944	311.074081350134	311.458763132324
307.996627092617	311.458763132324	19.7326056960000
19.7326056960000	-120.130514837779	-120.130158409982
-120.130852097387	2.31972646349015	3.59969481678143
SINK NO.	11	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEH1,DEH2,H1,H2		
307.996633470756	311.458767023645	307.996634879262
308.381316323828	308.765997768395	309.150679212962

309.535360657528	309.920042102095	310.304723546662
310.689404991229	311.074086435795	311.458767880362
307.996634879262	311.458767880362	19.7326056960000
19.7326056960000	-120.130533983957	-120.130598457291
-120.130473130177	2.31972807818725	3.59969356501878
SINK NO.	11	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
797.996633725447	311.458767178407	307.996633470756
308.381314976632	308.765996482509	309.150677988385
309.535359494262	309.920041000178	310.304722506015
310.689404011891	311.074085517768	311.458767023645
307.996633470756	311.458767023645	19.7326056960000
19.7326056960000	-120.130530516570	-120.130518858262
-120.130541509523	2.31972778610916	3.59969379052123
SINK NO.	15	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
311.270553612648	312.087004573075	311.538888888889
311.884567901235	312.230246913580	312.575925925926
312.921604938272	313.267283950617	313.612962962963
313.958641975309	314.304320987654	314.650000000000
311.531888888889	314.650000000000	61.5296833920000
61.5296833920000	-262.432857395381	-274.371836453898
370.320785134338	0.723110014272426	4.01238085120703
SINK NO.	15	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
310.177218053237	310.841464493378	311.270553612648
311.361270386029	311.451987159410	311.562703932790
311.633420706171	311.724137479552	311.814854252933
311.905571026313	311.996287799694	312.087004573075
311.270553612648	312.087004573075	61.5296833920000
61.5296833920000	-213.509575458625	-262.091846772383
-98.3132820206527	0.722170362810283	1.50312853002772
SINK NO.	15	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
310.178471674185	310.839379254793	310.177218053237
310.251023213252	310.324828373268	310.398633533284
310.472438693299	310.546243853315	310.620049013331
310.693854173347	310.767659333362	310.841464493378
310.177218053237	310.841464493378	61.5296833920000
61.5296833920000	-212.436361605436	-212.380951524076
-212.244646673832	0.718352928606034	1.49422330626566
SINK NO.	15	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		

310.178446303124	310.839354412532	310.178471674185
310.251905849808	310.325340025431	310.398774201035
310.472208376678	310.545642552301	310.619076727924
310.692510903547	310.765945079170	310.839379254723
310.178471674185	310.839379254793	61.5296833920000
61.5296833920000	-212.436531578124	-212.437652986561
-212.434247625996	0.718357295407493	1.49420843707226

SINK NO. 15

IN SINK	TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2	
310.178446359756	310.839354395642	310.178446303124
310.251880537503	310.325314771881	310.398749006260
310.472183240639	310.545617475017	310.619051709396
310.692467943774	310.765920178153	310.839354412532
310.178446303124	310.339354412532	61.5296833920000
61.5296833920000	-212.436507946081	-212.436505442933
-212.436506393304	0.718357207030955	1.49420825993055

SINK NO. 16

IN SINK	TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2	
311.427920474008	312.006332745923	311.427777777778
311.785802469136	312.143827160494	312.501851851852
312.859876543210	313.217901234568	313.575925925926
313.933950617284	314.291975308642	314.650000000000
311.427777777778	314.650000000000	122.037433344000
122.037433344000	-560.008863229550	-549.183906894018
734.490991019913	0.797267054260409	4.01238085120706

SINK NO. 16

IN SINK	TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2	
309.995708477098	310.700301351373	311.127920474008
311.225521837554	311.323123201100	311.420724564646
311.518325928192	311.615927291738	311.713528655284
311.811130018830	311.908731382376	312.006332745923
311.127920474008	312.006332745923	122.037433344000
122.037433344000	-449.194833881658	-559.194897901604
-209.711273057690	0.796108236071215	1.50255031937593

SINK NO. 16

IN SINK	TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2	
309.996930503647	310.667847968267	309.995708477098
310.073996574240	310.152284671382	310.230572768523
310.308860865665	310.387148962807	310.465437059948
310.811130018830	310.622013254232	310.700301351373
309.995708477098	310.700301351373	122.037433344000
122.037433344000	-446.851672192336	-444.733596721737
-446.404596183357	0.791746184181601	1.49321701402937

SINK NO. 16
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2
309.996902309896 310.697819659294 309.996930503647
310.074810221938 310.152689940229 310.230569658520
310.308449376811 310.386329095102 310.464208813393
310.542088531684 310.619968249975 310.697847968267
309.996930503647 310.697847968267 122.037433344000
127.037433344000 -446.851598735738 -446.854322907437
-446.546440098166 0.791750880802991 1.49319953025899

SINK NO. 16
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2
309.996902369489 310.697819631993 309.996902309996
310.074782015385 310.152661720873 310.230541426362
310.308421131851 310.386300837339 310.464180542828
310.542060248317 310.619939953805 310.697819659294
309.996902309896 310.697819659294 122.037433344000
122.037433344000 -446.851543338553 -446.851537580490
-446.851538363541 0.791750772446491 1.49319932851922

SINK NO. 17
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2
311.140668145793 312.013542697163 311.427777777778
311.785802469136 312.143827160494 312.501851851852
312.859876543210 313.217901254568 313.575925925926
313.933950617284 314.291975308642 314.650000000000
311.427777777778 314.650000000000 144.371324160000
144.371324160000 -658.318731755831 -691.084861716499
868.909104784520 0.790490121695360 4.01238085120706

SINK NO. 17
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2
310.011636047652 310.712689807445 311.140668145793
311.237654207057 311.334640268320 311.431626329583
311.528612390847 311.625598452110 311.722584513573
311.819570574637 311.916556635900 312.013542697163
311.140668145793 312.013542697163 144.371324160000
144.371324160000 -528.732131456217 -657.402599363371
-246.534681499836 0.789390056375222 1.50260198820418

SINK NO. 17
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEM, DEN1, DEN2, H1, H2
310.012862388711 310.710270311816 310.011636047652
310.089530909851 310.167425772050 310.245320634249
310.323215496449 310.401110358648 310.479005220847
310.556900083046 310.634794945246 310.712689807445
310.011636047652 310.712689807445 144.371324160000

144.371324160000	-525.982455020585	-525.843458274853
-525.460834835738	0.785077305646027	1.49330530182274
SINK NO.	17	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
310.012834438321	310.710242312190	310.012862388711
310.090352157945	310.167841927179	310.245331696413
310.322821465647	310.400311234880	310.477801004114
310.555290773348	310.632780542582	310.710270311816
310.012862388711	310.710270311816	144.371324160000
144.371324160000	-525.982417886862	-525.985585876987
-525.976381504202	0.785081978737843	1.49328805863499
SINK NO.	17	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
310.012834497737	310.710242285920	310.012834438321
310.090324202085	310.167813965848	310.245303729611
310.322793493374	310.400283257137	310.477773020900
310.555262784663	310.632752548426	310.710242312190
310.012834438321	310.710242312190	144.371324160000
144.371324160000	-525.982353263925	-525.982346529584
-525.982347600617	0.785081872229890	1.49328785908915
SINK NO.	18	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
311.301525122723	312.104521738660	311.594444444444
311.933950617284	312.273456790123	312.612962962963
312.952469135802	313.291975308642	313.631481481482
313.970967654321	314.310493827161	314.650000000000
311.594444444444	314.650000000000	40.1805648000000
40.1805648000000	-168.551721753515	-176.878511064075
241.829593191316	0.707478944244934	4.01230000020706
SINK NO.	18	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
310.217583768518	310.872853292939	311.301525122723
311.390746963938	311.479968815154	311.569190661369
311.658412507584	311.747634355799	311.836856200014
311.926078046229	312.015299892445	312.104521738660
311.301525122723	312.104521738660	40.1805648000000
40.1805648000000	-137.543302626547	-168.312703895459
-63.1485588711181	0.706475690762184	1.50325410953868
SINK NO.	18	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
310.218839433298	310.879844622784	310.217583768518
310.290391493454	310.363199218389	310.436006943325
310.508814668261	310.581622393196	310.654430118132

310.727237843068	310.800045568003	310.872853292939
310.217583768518	310.872853292939	40.1805648000000
40.1805648000000	-136.858107617241	-136.822650328558
-136.737491533305	0.702774141357018	1.49444714610027

SINK NO. 18

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2

310.218814701035	310.870820532265	310.218839433298
310.291284454352	310.363729475406	310.436174496460
310.508619517514	310.581064538568	310.653509559622
310.725954580676	310.798399601730	310.870844622784
310.218839433298	310.870844622784	40.1805648000000
40.1805648000000	-136.858242321372	-136.858940711841
-136.856795754238	0.702778419345016	1.49443282097218

SINK NO. 18

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2

310.218814756757	310.870820517309	310.218814701035
310.291259793394	310.363704885753	310.436149978112
310.508595070471	310.581040162829	310.653485255188
310.725930347547	310.798375439906	310.870820532265
310.218814701035	310.870820532265	40.1805648000000
40.1805648000000	-136.858227485808	-136.858225912325
-136.858226587749	0.702778335083193	1.49443264916783

SINK NO. 19

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2

300.439977691994	300.891203732597	305.244444444444
305.246031746032	305.247619047619	305.249206349206
305.250793650794	305.252380952381	305.253968253968
305.255555555556	305.244444444444	305.255555555556
61.5296833920000	61.5296833920000	-189.322402089539
-466.563791722174	-5.03490252277579	0.924098704060703
0.701390043942377		

SINK NO. 19

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2

300.449391628676	300.891140194367	300.439977691994
300.504438554937	300.568899417881	300.633360280824
300.697821143767	300.762282006710	300.826742869654
300.891203732597	300.439977691994	300.891203732597
61.5296833920000	61.5296833920000	-189.322402089539
-188.799819572621	-189.319717646336	0.902191898595040
0.686648430634762		

SINK NO. 19

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2

300.449296221489	300.891053224025	300.449391628676
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300.512498566632	300.575605504588	300.638712442544
300.701819380500	300.764926318456	300.828033256412
300.891140194367	300.449391628676	300.891140194367
61.5296833920000	61.5296833920000	-189.326017910020
-189.331314363189	-189.322343478479	0.902234368904929
0.686648218059848		

SINK NO. 19

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2

300.449296405521	300.891053221144	300.449296221489
300.512404364709	300.575512507928	300.638620651147
300.701728794367	300.764836937586	300.827945080805
300.891053224025	300.449296221489	300.891053224025
61.5296833920000	61.5296833920000	-189.325937804075
-189.325927587683	-189.325937682393	0.902233938473241
0.686647927090029		

SINK NO. 20

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2

300.620020867461	301.095146588788	305.250000000000
305.252380952381	305.254761904762	305.257142857143
305.259523809524	305.261904761905	305.264285714286
305.266666666667	305.250000000000	305.266666666667
122.037433344000	122.037433344000	-403.872036853323
-926.030704569477	-9.96730964731026	0.924124305526693
0.773755571874239		

SINK NO. 20

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2

300.629847983665	301.095389240834	300.620020867461
300.687895970508	300.755771073554	300.823646176601
300.891521279648	300.959396382694	301.027271485741
301.095146588788	300.620020867461	301.095146588788
122.037433344000	122.037433344000	-395.724936227854
-394.641984617900	-395.747388230519	0.903004458561069
0.758190017520951		

SINK NO. 20

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2

300.629749755306	301.095301152015	300.629847983665
300.696353877546	300.762859771427	300.829365665309
300.895871559190	300.962377453071	301.028883346953
301.095389240834	300.629847983665	301.095389240834
122.037433344000	122.037433344000	-395.733555159901
-395.744380490897	-395.725404506428	0.903048828411466
0.758190914720260		

SINK NO. 20

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
300.629749967259 301.095301162800 300.629749755306
300.626257097693 300.762764440080 300.829271782467
300.895779124854 300.962286467241 301.070000000000
301.095301152015 300.629749755306 301.070000000000
122.037433344000 122.037433344000 -395.733384161452
-395.733360803080 -395.733385159397 0.903048384896642
0.758190589014148

SINK NO. 21

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
300.296333870634 301.448719786089 305.233333333333
305.235185185185 305.237037037037 305.238888888889
305.240740740741 305.242592592593 305.244444444444
305.246296296296 305.248148148148 305.257000000000
305.251851851852 305.253703703704 305.255555555556
305.257407407407 305.259259259259 305.261111111111
305.262962962963 305.264814814815 305.266666666667
305.233333333333 305.266666666667 144.371324160000
144.371324160000 -434.562580135265 -1093.18774085478
-11.6912109311792 0.92404750306825 0.767160632002064

SINK NO. 21

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
300.316693614266 301.448042614842 300.296333870634
300.360355310382 300.424376750129 300.488398189877
300.552419629624 300.616441069372 300.680462509119
300.744483948867 300.808505388614 300.872526828361
300.936548268109 301.000569707856 301.064591147604
301.128612587351 301.192634027099 301.256655466846
301.320676906594 301.384698366341 301.448719786089
300.296333870634 301.448719786089 144.371324160000
144.371324160000 -426.629598757103 -423.979633312483
-426.555977943020 0.901544079948620 0.753045411029020

SINK NO. 21

IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2
300.316486059474 301.447878608184 300.316693614266
300.379546336520 300.442399058774 300.505251781029
300.569104503283 300.630957225537 300.693809947791
300.756662670046 300.819515392300 300.882368114554
300.945220836808 301.008073559062 301.070926281317
301.133779003571 301.196631725825 301.259484448079
301.322337170333 301.385189892588 301.448042614842
300.316693614266 301.448042614842 144.371324160000
144.371324160000 -426.646020577574 -426.673038160715

-426.628190233876	0.901635875120077	0.753042924839700
SINK NO.	21	
IN SINK TS1, TS2, (IN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
300.316486889194	301.447878550007	300.316486059474
300.379341201069	300.442196342664	300.505051484259
300.567906625854	300.630761767449	300.693616909044
300.756472050639	300.819327192234	300.882182333829
300.945037475424	301.007892617019	301.070747758614
301.133602900209	301.196458041804	301.259313183399
301.322168324994	301.385023466589	301.447878608184
300.316486059474	301.447878608184	144.371324160000
144.371324160000	-426.645685853243	-426.645577848367
-426.645679528391	0.901634939286085	0.753042322701243
SINK NO.	21	
IN SINK TS1, TS2, (IN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
300.316486880505	301.447878543014	300.316486889194
300.379341981461	300.442197073729	300.505052165996
300.567907258264	300.630762350531	300.693617442798
300.756472535066	300.819327627333	300.882182719601
300.945037811868	301.007892904135	301.070747996403
301.133603088670	301.196458180938	301.259313273205
301.322168365473	301.385023457740	301.447878550007
300.316486889194	301.447878550007	144.371324160000
144.371324160000	-426.645686492516	-426.645687623495
-426.645685732226	0.901634943025178	0.753042322487651
SINK NO.	22	
IN SINK TS1, TS2, (IN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
300.399573409784	300.845426619557	305.238888888889
305.240476190476	305.242063492063	305.243650793651
305.245238095238	305.246825396825	305.248412698413
305.250000000000	305.238888888889	305.250000000000
40.1805648000000	40.1805648000000	-124.781474234812
-304.464189471967	-3.36906509853550	0.924073103220749
0.686030129644433		
SINK NO.	22	
IN SINK TS1, TS2, (IN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
300.408875079505	300.845287519272	300.399573409784
300.463266725466	300.326960041148	300.590653356830
300.654346672512	300.718039988194	300.781733303876
300.845426619557	300.399573409784	300.845426619557
40.1805648000000	40.1805648000000	-122.139274575013
-121.802151771621	-122.135521570160	0.902009637702818
0.671483072393383		

SINK NO. 22
IN SINK TS1,TS2,(TN(N),M=IN,INF),TTS1,TTS2,AREAK,AR,TDEN,DEM1,DEM2,H1,H2
300.408780479682 300.845200967613 300.408875079505
300.471219713757 300.533564348010 300.595908982262
300.658253616515 300.720598250767 300.782942885020
300.845287519272 300.408875079505 300.845797519272
40.1805648000000 40.1805648000000 -122.141527024062
-122.144955789189 -122.139191812614 0.902051593985582
0.671482617391908

SINK NO. 22
IN SINK TS1,TS2,(TN(N),M=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2
300.408780657205 300.845200961791 300.408780479682
300.471126263672 300.533472047662 300.595817831653
300.658163615643 300.720509399633 300.782855183623
300.845200967613 300.408780479682 300.845200967613
40.1805648000000 40.1805648000000 -122.141475683345
-122.141469245429 -122.141475526278 0.902051167273153
0.671482334278806

SINK NO. 23
IN SINK TS1,TS2,(TN(N),M=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2
308.856073063534 309.053782550037 309.083333333333
309.294444444444 309.083333333333 309.294444444444
5.10966720000000 5.10966720000000 -44.852129148369
-47.7779452741456 -41.2361111095617 2.51959592021136
2.94056404361521

SINK NO. 23
IN SINK TS1,TS2,(TN(N),M=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2
308.905234734517 309.102694979599 308.856073063534
309.053782550037 308.856073063534 309.053782550037
5.10966720000000 5.10966720000000 -44.7955865483332
-44.1722584735775 -45.5418114365408 2.48140376721878
2.98578051330399

SINK NO. 23
IN SINK TS1,TS2,(TN(N),M=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2
308.894930878937 309.092481715139 308.905234734517
309.102694979599 308.905234734517 309.102694979599
5.10966720000000 5.10966720000000 -44.8161379379288
-44.9472242859650 -44.6607897318550 2.48980357805743
2.97679584006030

SINK NO. 23
IN SINK TS1,TS2,(TN(N),M=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2
308.897086786178 309.094619267029 308.894930878937
309.092481715139 308.894930878937 309.092481715139

5.10966720000000	5.10966720000000	-44.8119738655720
-44.7845655901012	-44.8445075434364	2.48804954595636
2.97868021759805		
SINK NO.	23	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2		
308.896635643364	309.094171998203	308.897086786178
309.094619267029	308.897086786178	309.094619267029
5.10966720000000	5.10966720000000	-44.8128527136917
-44.8185889864008	-44.8060461537489	2.48841683056704
2.97828619884773		
SINK NO.	23	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2		
308.896730045904	309.094265591504	308.896635643364
309.094171998203	308.896635643364	309.094171998203
5.10966720000000	5.10966720000000	-44.8126691308029
-44.8114688413674	-44.8140934779841	2.4833998539896
2.97836866070692		
SINK NO.	23	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2		
308.896710291850	309.094246006849	308.896730045904
309.094265591504	308.896730045904	309.094265591504
5.10966720000000	5.10966720000000	-44.8127075601933
-44.8129587264887	-44.8124095133726	2.48835600594804
2.97835140583965		
SINK NO.	23	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2		
308.896714425447	309.094250105001	308.896710291850
309.094246006849	308.896710291850	309.094246006849
5.10966720000000	5.10966720000000	-44.8126995193522
-44.8126469620938	-44.8127618866944	2.48835270106213
2.97835501649876		
SINK NO.	23	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2		
308.896713560479	309.094249247450	308.896714425447
309.094250105001	308.896714425447	309.094250105001
5.10966720000000	5.10966720000000	-44.8127012019503
-44.8127121997266	-44.8126881513915	2.48835340517602
2.97835426095794		
SINK NO.	23	
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2		
308.896713741477	309.094249426895	308.896713560479
309.094249426895	308.896713560479	309.094249247450
5.10966720000000	5.10966720000000	-44.8127008498625

-44.8126985485429	-44.8127035807334	2.488353257837995
2.97835441905729		
SINK NO.	24	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
309.130112865442	309.354813317091	310.0777777777778
310.355555555556	310.077777777778	310.355555555556
1.99741536000000	1.99741536000000	-19.9266949142936
-24.9518091025306	-12.4971405890484	2.65474461572205
3.71602528479514		
SINK NO.	24	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
309.307608698420	309.530236544363	309.130112865442
309.354813317091	309.130112865442	309.354813317091
1.99741536000000	1.99741536000000	-19.7429938526208
-18.8524396593764	-21.1234406588917	2.51162638331228
3.94005192617396		
SINK NO.	24	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
309.276379533771	309.499747596539	309.307608698420
309.530236544363	309.307608698420	309.530236544363
1.99741536000000	1.99741536000000	-19.2085371334270
-19.9669846595491	-19.5706844952302	2.54013448284119
3.90568443094471		
SINK NO.	24	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
309.281851949229	309.505096986959	309.276379533771
309.499747596539	309.276379533771	309.499747596539
1.99741536000000	1.99741536000000	-19.7976271313444
-19.7699158521902	-19.8394242642688	2.53518190872728
3.91177450136404		
SINK NO.	24	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
309.280892734158	309.504159571451	309.281851949229
309.505096986959	309.281851949229	309.505096986959
1.99741536000000	1.99741536000000	-19.7995603416883
-19.8044192922253	-19.7922378971197	2.53605167777950
3.91070965309296		
SINK NO.	24	
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
309.281060856467	309.504323879980	309.280892734158
309.504159571451	309.280892734158	309.504159571451
1.99741536000000	1.99741536000000	-19.7992221313439
-19.7983705507980	-19.8005056577331	2.53589928191153

3.91089636716734		
SINK NO. 24		
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
309.281031389238	309.504295081420	309.281060856467
309.504323879980	309.281060856467	309.504323879980
1.99741536000000	1.99741536000000	-19.7992814296382
-19.7994306899184	-19.7990564662558	2.53592599425083
3.91086364371047		
SINK NO. 24		
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
309.281036554725	309.504300129015	309.281031389238
309.504295081420	309.281031389238	309.504295081420
1.99741536000000	1.99741536000000	-19.7992710368856
-19.7992448757503	-19.7993104668313	2.53592131236608
3.91086937929753		
SINK NO. 24		
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
309.281035648781	309.504299244312	309.281036554025
309.504300129015	309.281036554025	309.504300129015
1.99741536000000	1.99741536000000	-19.7992728584654
-19.7992774437890	-19.7992659474919	2.53592213297220
3.91086837401029		
SINK NO. 24		
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
309.281035807446	309.504299399376	309.281035648781
309.504299244312	309.281035648781	309.504299244312
1.99741536000000	1.99741536000000	-19.7992725391935
-19.7992717355135	-19.7992737504958	2.53592198914274
3.91086855020934		
SINK NO. 25		
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
309.356974564959	309.591755125431	309.700000000000
309.955555555556	309.700000000000	309.955555555556
4.36644288000000	4.36644288000000	-45.5148231226454
-49.4329441649554	-40.8613175847257	2.61591568220694
2.92947127320368		
SINK NO. 25		
IN SINK TS1, TS2, (TN(N), N=IN, INF), TTS1, TTS2, AREAH, AR, TDEN, DEN1, DEN2, H1, H2		
309.433873890099	309.668395989248	309.356974564959
309.591755125431	309.356974564959	309.591755125431
4.36644288000000	4.36644288000000	-45.4647175204512
-44.6039331940518	-46.4655364571357	2.56356325973236
2.99066205043545		

SINK NO. 25
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2
309.417182197071 309.651832957481 309.433873890099
309.668395989248 309.433873890099 309.668395989248
4.36644288000000 4.36644288000000 -45.4896599368942
-45.6773748819959 -45.2742766594600 2.57555410953191
2.97813488020585

SINK NO. 25
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2
309.420797614766 309.655421953451 309.417182197071
309.651832957481 309.417182197071 309.651832957481
4.36644288000000 4.36644288000000 -45.4845377916488
-45.4439196514739 -45.5312512490924 2.57296436539558
2.98085779652889

SINK NO. 25
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2
309.420014359121 309.654644502617 309.420797614766
309.655421953451 309.420797614766 309.655421953451
4.36644288000000 4.36644288000000 -45.4856631187350
-45.4964646829448 -45.4755460171205 2.57352596869808
2.98026851492883

SINK NO. 25
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2
309.420184037381 309.654817 7072 309.420014359121
309.654644502617 309.420014359121 309.654644502617
4.36644288000000 4.36644288000000 -45.4854200547957
-45.4835134441905 -45.4876118851457 2.57340428261294
2.98039620015484

SINK NO. 25
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2
309.420147279234 309.654776440717 309.420184037381
309.654812927072 309.420184037381 309.654812927072
4.36644288000000 4.36644288000000 -45.4854727446075
-45.4858857862671 -45.4849979254469 2.57343063205330
2.9803754046287

SINK NO. 25
IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2
309.420155242294 309.654784344906 309.420147279234
309.654776440717 309.420147279234 309.654776440717
4.36644288000000 4.36644288000000 -45.4854613317948
-45.4853718531764 -45.4855641940243 2.57342492392094
2.98037453255110

SINK NO. 25

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2
309.420153517225 309.654782632590 309.420155242294
309.654784344906 309.420155242294 309.654784344906
4.36644288000000 4.36644288000000 -45.4854638042725
-45.4854831883922 -45.4854415208321 2.57342616049874
2.98037323446403

SINK NO. 25

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2
309.420153890933 309.654783003536 309.420153517225
309.654782632590 309.420153517225 309.654782632590
4.36644288000000 4.36644288000000 -45.4854632686533
-45.4854590693950 -45.4854680960041 2.57342589261409
2.98037351567392

SINK NO. 25

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2
309.420153809975 309.654782923177 309.420153890933
309.654783003536 309.420153890933 309.654783003536
4.36644288000000 4.36644288000000 -45.4854633846868
-45.4854642943888 -45.4854623389188 2.57342595064701
2.98037345475431

SINK NO. 26

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2
309.656046153403 309.923235955937 310.816666666667
311.150000000000 310.816666666667 311.150000000000
4.36644288000000 4.36644288000000 -51.7977151859181
-65.8313193829140 -32.1050529128238 2.76918013422752
3.67633950507830

SINK NO. 26

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2
309.881813187495 310.146851855932 309.656046153403
309.923235955937 309.656046153403 309.923235955937
4.36644288000000 4.36644288000000 -51.3806939141236
-48.8083837059698 -55.2065258614008 2.60936618646590
3.91827962360729

SINK NO. 26

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2
309.840535268343 310.106487077490 309.881813187495
310.146851855932 309.881813187495 310.146851855932
4.36644288000000 4.36644288000000 -51.5577163976855
-52.0340024651966 -50.8739289939949 2.64254443130135
3.87963385008354

SINK NO. 26

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEM1,DEM2,H1,H2

309.848047384712	310.113843284025	309.840535268343
310.106487077490	309.840535268343	310.106487077490
4.36644288000000	4.36644288000000	-51.5274915420513
-51.4410090503023	-51.6523358453794	2.63656270106837
3.88675380879773		

SINK NO. 26

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2

309.846679750378	310.112504420191	309.848047384712
310.113843284025	309.848047384712	310.113843284025
4.36644288000000	4.36644288000000	-51.5330690235114
-51.5488202948312	-51.5103543361768	2.63765405235216
3.88546113767705		

SINK NO. 26

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2

309.846928716590	310.112748161466	309.846679750378
310.112504420191	309.846679750378	310.112504420191
4.36644288000000	4.36644288000000	-51.5320561114215
-51.5291889421843	-51.5361915897243	2.63745545536521
3.88569657115558		

SINK NO. 26

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2

309.846883393726	310.112703790188	309.846928716590
310.112748161466	309.846928716590	310.112748161466
4.36644288000000	4.36644288000000	-51.5322405868503
-51.5327625456373	-51.5314877622232	2.63749161128285
3.88565371564589		

SINK NO. 26

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2

309.846891644469	310.112711867715	309.846883393726
310.112703790188	309.846883393726	310.112703790188
4.36644288000000	4.36644288000000	-51.5322070069235
-51.5321119878337	-51.5323440544386	2.63748502940667
3.88566151734856		

SINK NO. 26

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2

309.846890142472	310.112710397251	309.846891644469
310.112711867715	309.846891644469	310.112711867715
4.36644288000000	4.36644288000000	-51.5322131200305
-51.5322304176772	-51.5321881713932	2.63748622759932
3.88566009710093		

SINK NO. 26

IN SINK TS1,TS2,(TN(N),N=IN,INF),TTS1,TTS2,AREAH,AR,TDEN,DEN1,DEN2,H1,H2

309.846890415002	310.112710664940	309.846890142472
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SARGENT & LUNDY ENGINEERS
 Output file: AECTR1.DAT

310. 112710397251 310. 112710397251
 4. 36644288000000 4. 36644288000000
 -51. 5322165489258 -51. 5322165489258
 3. 88566035564836 2. 63748600947586

TIME = 0.00000 INCREMENTS = 0
 TOTAL INCREMENTS = 0
 TIME INC. = 5.00000, COMPARED WITH -

VOL	TEMP	PRESSURE	RELNUM	STEAM MASS	FRAC	WATER MASS	FRAC	GAS MASS	FRAC	TOTAL MASS	INT ENERGY	VOLUME
1	9.0000E+01	1.4700E+01	2.0000E-01	4.3227E+00	0.0059	0.0000E+00	0.0000	7.2545E+02	0.9941	7.2977E+02	1.1698E+04	1.0133E+04
2	9.0000E+01	1.4700E+01	2.0000E-01	8.5737E+00	0.0059	0.0000E+00	0.0000	1.4389E+03	0.9941	1.4474E+03	2.3203E+04	2.0099E+04
3	9.0000E+01	1.4700E+01	2.0000E-01	1.0143E+01	0.0059	0.0000E+00	0.0000	1.7022E+03	0.9941	1.7123E+03	2.7449E+04	2.3776E+04
4	9.0000E+01	1.4700E+01	2.0000E-01	2.8228E+00	0.0059	0.0000E+00	0.0000	4.7373E+02	0.9941	4.7655E+02	7.6391E+03	6.6170E+03
5	1.0200E+02	1.4700E+01	4.7000E-01	1.4175E+17	0.0203	0.0000E+00	0.0000	6.8656E+18	0.9797	6.9873E+18	2.3005E+20	1.0000E+20
6	1.0600E+02	1.4700E+01	3.6000E-01	1.1459E+17	0.0165	0.0000E+00	0.0000	6.8392E+18	0.9835	6.9538E+18	2.0646E+20	1.0000E+20
7	1.0200E+02	1.4700E+01	4.7000E-01	1.4175E+17	0.0203	0.0000E+00	0.0000	6.8656E+18	0.9797	6.9873E+18	2.3005E+20	1.0000E+20
8	1.0400E+02	1.4700E+01	3.6000E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8638E+18	0.9836	6.9786E+18	2.0455E+20	1.0000E+20
9	1.0400E+02	1.4700E+01	3.6000E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8638E+18	0.9836	6.9786E+18	2.0455E+20	1.0000E+20
10	1.0400E+02	1.4700E+01	3.6000E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8638E+18	0.9836	6.9786E+18	2.0455E+20	1.0000E+20
11	1.0400E+02	1.4700E+01	3.6000E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8638E+18	0.9836	6.9786E+18	2.0455E+20	1.0000E+20
12	1.0400E+02	1.4700E+01	3.6000E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8638E+18	0.9836	6.9786E+18	2.0455E+20	1.0000E+20
13	1.0400E+02	1.4700E+01	3.6000E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8638E+18	0.9836	6.9786E+18	2.0455E+20	1.0000E+20
14	1.0400E+02	1.4700E+01	3.6000E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8638E+18	0.9836	6.9786E+18	2.0455E+20	1.0000E+20
15	7.5000E+01	1.4700E+01	2.0000E-01	2.6987E+16	0.0036	0.0000E+00	0.0000	7.3873E+18	0.9964	7.4143E+18	8.2299E+19	1.0000E+20

VOL	GM1	KG1	GM2	KG2	GM3	KG3	GM4	KG4	GM5	KG5
1	7.2545E+02	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
2	1.4389E+03	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
3	1.7022E+03	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
4	4.7373E+02	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
5	6.8656E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
6	6.8392E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
7	6.8656E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
8	6.8638E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
9	6.8638E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
10	6.8638E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
11	6.8638E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
12	6.8638E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000

13 6.8638E+18 1.0000 0.0000E+00 0.0000 0.0000E+00 0.0000 0.0000E+00 0.0000 0.0000E+00 0.0000 0.0000E+00 0.0000
14 6.8638E+18 1.0000 0.0000E+00 0.0000 0.0000E+00 0.0000 0.0000E+00 0.0000 0.0000E+00 0.0000 0.0000E+00 0.0000
15 7.3873E+18 1.0000 0.0000E+00 0.0000 0.0000E+00 0.0000 0.0000E+00 0.0000 0.0000E+00 0.0000 0.0000E+00 0.0000

TOT. MASS- 1.39571E+29, TOT. ENERGY- 4.09096E+30
TOTAL BLW DWM MASS- 0.00000E+00, TOTAL BLW DWM ENERGY- 0.00000E+00

JUN VI	VJ	AREA	ENT LOSS K	EXT LOSS K	CHORE	STEAM(M/S)	WATER(M/S)	GAS(M/S)	TOTAL(M/S)	ENERGY(EM/S)
G1	G2	G3	G4	G5						
1	1	5	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
			0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
2	2	5	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
			0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
3	3	5	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
			0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
4	4	5	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
			0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

HT STRUCT. 1, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00, ON RGT- 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00, ON RGT- 0.0000E+00
THE HTC AND TBLK ARE/ ON LEFT- 0.39621E+00, ON RIGHT- 0.70000E+02, ON RIGHT- 0.64165E+00 0.10200E+03

THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9414E+02 0.1292E+01 0.9473E+02 0.2583E+01 0.9532E+02 0.3675E+01 0.9591E+02 0.5167E+01 0.9650E+02
0.6458E+01 0.9709E+02 0.7750E+01 0.9768E+02 0.9042E+01 0.9826E+02 0.1033E+02 0.9885E+02 0.1163E+02 0.9944E+02

HT STRUCT. 2, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00, ON RGT- 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00, ON RGT- 0.0000E+00
THE HTC AND TBLK ARE/ ON LEFT- 0.40743E+00, ON RIGHT- 0.90000E+02, ON RIGHT- 0.64230E+00 0.10200E+03

THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9407E+02 0.1292E+01 0.9466E+02 0.2583E+01 0.9526E+02 0.3675E+01 0.9585E+02 0.5167E+01 0.9645E+02
0.6458E+01 0.9704E+02 0.7750E+01 0.9766E+02 0.9042E+01 0.9823E+02 0.1033E+02 0.9883E+02 0.1163E+02 0.9942E+02

HT STRUCT. 3, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00, ON RGT- 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00, ON RGT- 0.0000E+00
THE HTC AND TBLK ARE/ ON LEFT- 0.43039E+00, ON RIGHT- 0.90000E+02, ON RIGHT- 0.64840E+00 0.10600E+03

THE COORDINATE. AND TEMPERATURES ARE-
0.0000E+00 0.9524E+02 0.1292E+01 0.9605E+02 0.2583E+01 0.9636E+02 0.3675E+01 0.9675E+01 0.5167E+01 0.9848E+02
0.6458E+01 0.9929E+02 0.7750E+01 0.1001E+03 0.9042E+01 0.1007E+03 0.1033E+02 0.1017E+03 0.1163E+02 0.1025E+03

HT STRUCT.- 4, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
THE HTCD AND TBULK ARE/ ON LEFT- 0.40641E+00 0.90000E+02, ON RIGHT- 0.64225E+00 0.10200E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9407E+02 0.1292E+01 0.9467E+02 0.2583E+01 0.9526E+02 0.3875E+01 0.9586E+02 0.5167E+01 0.9645E+02
0.6458E+01 0.9705E+02 0.7750E+01 0.9764E+02 0.9042E+01 0.9823E+02 0.1033E+02 0.9883E+02 0.1163E+02 0.9942E+02

HT STRUCT.- 5, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
THE HTCD AND TBULK ARE/ ON LEFT- 0.39383E+00 0.90000E+02, ON RIGHT- 0.64151E+00 0.10200E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9416E+02 0.1292E+01 0.9475E+02 0.2583E+01 0.9533E+02 0.3875E+01 0.9592E+02 0.5167E+01 0.9651E+02
0.6458E+01 0.9710E+02 0.7750E+01 0.9768E+02 0.9042E+01 0.9827E+02 0.1033E+02 0.9886E+02 0.1163E+02 0.9945E+02

HT STRUCT.- 6, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
THE HTCD AND TBULK ARE/ ON LEFT- 0.40615E+00 0.90000E+02, ON RIGHT- 0.63380E+00 0.10400E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9474E+02 0.1292E+01 0.9543E+02 0.2583E+01 0.9612E+02 0.3875E+01 0.9682E+02 0.5167E+01 0.9751E+02
0.6458E+01 0.9820E+02 0.7750E+01 0.9889E+02 0.9042E+01 0.9958E+02 0.1033E+02 0.1003E+03 0.1163E+02 0.1010E+03

HT STRUCT.- 7, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
THE HTCD AND TBULK ARE/ ON LEFT- 0.41871E+00 0.9000E+02, ON RIGHT- 0.63453E+00 0.10400E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9465E+02 0.1292E+01 0.9535E+02 0.2583E+01 0.9674E+02 0.3875E+01 0.9744E+02 0.5167E+01 0.9744E+02
0.6458E+01 0.9914E+02 0.7750E+01 0.9984E+02 0.9042E+01 0.9954E+02 0.1033E+02 0.1002E+03 0.1163E+02 0.1009E+03

HT STRUCT.- 8, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
THE HTCD AND TBULK ARE/ ON LEFT- 0.41973E+00 0.90000E+02, ON RIGHT- 0.63459E+00 0.10400E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9464E+02 0.1292E+01 0.9534E+02 0.2583E+01 0.9674E+02 0.3875E+01 0.9744E+02 0.5167E+01 0.9744E+02
0.6458E+01 0.9814E+02 0.7750E+01 0.9883E+02 0.9042E+01 0.9953E+02 0.1033E+02 0.1002E+03 0.1163E+02 0.1009E+03

HT STRUCT.- 9, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
THE HTCD AND TBULK ARE/ ON LEFT- 0.41973E+00 0.90000E+02, ON RIGHT- 0.63459E+00 0.10400E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9464E+02 0.1292E+01 0.9534E+02 0.2583E+01 0.9674E+02 0.3875E+01 0.9744E+02 0.5167E+01 0.9744E+02
0.6458E+01 0.9814E+02 0.7750E+01 0.9883E+02 0.9042E+01 0.9953E+02 0.1033E+02 0.1002E+03 0.1163E+02 0.1009E+03

TRANS. MRG + MASS ACCUM, ON LEFT- 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
THE NTCO AND TBULK ARE/ ON LEFT- 0.40853E+00 0.90000E+02, ON RIGHT- 0.63394E+00 0.10400E+03

THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9472E+02 0.1292E+01 0.9542E+02 0.2583E+01 0.9611E+02 0.3875E+01 0.9680E+02 0.5167E+01 0.9749E+02
0.6458E+01 0.9819E+02 0.7750E+01 0.9808E+02 0.9042E+01 0.9957E+02 0.1033E+02 0.1003E+03 0.1163E+02 0.1010E+03

HT STRUCT.- 10, TRANS. MRG + MASS RATE, ON LEFT- 0.0000E+00 0.0000E+00, ON RIGHT- 0.0000E+00 0.0000E+00

TRANS. MRG + MASS ACCUM, ON LEFT- 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
THE NTCO AND TBULK ARE/ ON LEFT- 0.40853E+00 0.90000E+02, ON RIGHT- 0.63394E+00 0.10400E+03

THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9472E+02 0.1292E+01 0.9542E+02 0.2583E+01 0.9611E+02 0.3875E+01 0.9680E+02 0.5167E+01 0.9749E+02
0.6458E+01 0.9819E+02 0.7750E+01 0.9808E+02 0.9042E+01 0.9957E+02 0.1033E+02 0.1003E+03 0.1163E+02 0.1010E+03

HT STRUCT.- 11, TRANS. MRG + MASS RATE, ON LEFT- 0.0000E+00 0.0000E+00, ON RIGHT- 0.0000E+00 0.0000E+00

TRANS. MRG + MASS ACCUM, ON LEFT- 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
THE NTCO AND TBULK ARE/ ON LEFT- 0.40853E+00 0.90000E+02, ON RIGHT- 0.63394E+00 0.10400E+03

THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9472E+02 0.1292E+01 0.9542E+02 0.2583E+01 0.9611E+02 0.3875E+01 0.9680E+02 0.5167E+01 0.9749E+02
0.6458E+01 0.9819E+02 0.7750E+01 0.9808E+02 0.9042E+01 0.9957E+02 0.1033E+02 0.1003E+03 0.1163E+02 0.1010E+03

HT STRUCT.- 12, TRANS. MRG + MASS RATE, ON LEFT- 0.0000E+00 0.0000E+00, ON RIGHT- 0.0000E+00 0.0000E+00

TRANS. MRG + MASS ACCUM, ON LEFT- 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
THE NTCO AND TBULK ARE/ ON LEFT- 0.12175E+00 0.90000E+02, ON RIGHT- 0.13453E+00 0.90000E+02

THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9000E+02 0.1271E+01 0.9000E+02 0.2542E+01 0.9900E+02 0.3813E+01 0.9000E+02 0.5083E+01 0.9000E+02
0.6354E+01 0.9000E+02 0.7625E+01 0.9000E+02

HT STRUCT.- 13, TRANS. MRG + MASS RATE, ON LEFT- 0.0000E+00 0.0000E+00, ON RIGHT- 0.0000E+00 0.0000E+00

TRANS. MRG + MASS ACCUM, ON LEFT- 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
THE NTCO AND TBULK ARE/ ON LEFT- 0.13453E+00 0.90000E+02, ON RIGHT- 0.13337E+00 0.90000E+02

THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.9000E+02 0.1292E+01 0.9000E+02 0.2583E+01 0.9611E+02 0.3875E+01 0.9680E+02 0.5167E+01 0.9749E+02
0.6458E+01 0.9819E+02 0.7750E+01 0.9808E+02 0.9042E+01 0.9957E+02 0.1033E+02 0.1003E+03 0.1163E+02 0.9000E+02

HT STRUCT.- 14, TRANS. MRG + MASS RATE, ON LEFT- 0.0000E+00 0.0000E+00, ON RIGHT- 0.0000E+00 0.0000E+00

TRANS. MRG + MASS ACCUM, ON LEFT- 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00
THE NTCO AND TBULK ARE/ ON LEFT- 0.13337E+00 0.90000E+02, ON RIGHT- 0.11908E+00 0.90000E+02

THE COORDINATES AND TEMPERATURES ARE-

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0.0000E+00 0.9000E+02 0.1271E+01 0.7000E+02 0.2542E+01 0.9000E+02 0.3813E+01 0.9000E+02 0.5083E+01 0.9000E+02
 0.6354E+01 0.9000E+02 0.7625E+01 0.9000E+02

HT STRUCT.- 15, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 , TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.1265E+00 0.9000E+02, ON RIGHT- 0.2631E+00 0.10400E+03

THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.9865E+02 0.1333E+01 0.9878E+02 0.2667E+01 0.9892E+02 0.4000E+01 0.9905E+02 0.5333E+01 0.9918E+02
 0.6667E+01 0.9931E+02 0.8000E+01 0.9944E+02 0.9333E+01 0.9958E+02 0.1067E+02 0.9971E+02 0.1200E+02 0.9984E+02

HT STRUCT.- 16, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 , TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.1394E+00 0.9000E+02, ON RIGHT- 0.2629E+00 0.10400E+03

THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.9832E+02 0.1333E+01 0.9846E+02 0.2667E+01 0.9860E+02 0.4000E+01 0.9874E+02 0.5333E+01 0.9889E+02
 0.6667E+01 0.9905E+02 0.8000E+01 0.9917E+02 0.9333E+01 0.9931E+02 0.1067E+02 0.9945E+02 0.1200E+02 0.9959E+02

HT STRUCT.- 17, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 , TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.1382E+00 0.9000E+02, ON RIGHT- 0.2629E+00 0.10400E+03

THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.9835E+02 0.1333E+01 0.9849E+02 0.2667E+01 0.9863E+02 0.4000E+01 0.9877E+02 0.5333E+01 0.9891E+02
 0.6667E+01 0.9905E+02 0.8000E+01 0.9919E+02 0.9333E+01 0.9933E+02 0.1067E+02 0.9947E+02 0.1200E+02 0.9961E+02

HT STRUCT.- 18, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 , TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.1237E+00 0.9000E+02, ON RIGHT- 0.2631E+00 0.10400E+03

THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.9872E+02 0.1333E+01 0.9885E+02 0.2667E+01 0.9899E+02 0.4000E+01 0.9912E+02 0.5333E+01 0.9925E+02
 0.6667E+01 0.9938E+02 0.8000E+01 0.9951E+02 0.9333E+01 0.9964E+02 0.1067E+02 0.9977E+02 0.1200E+02 0.9990E+02

HT STRUCT.- 19, TRANS. MRG + MASS RATE, ON LFT- 0.0000E+00, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 , TRANS. MRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.1588E+00 0.7500E+02, ON RIGHT- 0.1209E+00 0.9000E+02

THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.8114E+02 0.1286E+01 0.8125E+02 0.2771E+01 0.8137E+02 0.3857E+01 0.8148E+02 0.5143E+01 0.8159E+02
 0.6429E+01 0.8171E+02 0.7714E+01 0.8182E+02 0.9000E+01 0.8193E+02

HT STRUCT.- 20, TRANS. NRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00 0.0000E+00

, TRANS. NRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.15904E+00 0.75000E+02, ON RIGHT- 0.13353E+00 0.90000E+02
 THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.8146E+02 0.1286E+01 0.8158E+02 0.2571E+01 0.8170E+02 0.3657E+01 0.8182E+02 0.5143E+01 0.8194E+02
 0.6429E+01 0.8206E+02 0.7714E+01 0.8218E+02 0.9000E+01 0.8230E+02

HT STRUCT.- 21, TRANS. NRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00 0.0000E+00

, TRANS. NRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.15879E+00 0.75000E+02, ON RIGHT- 0.13262E+00 0.90000E+02
 THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.8090E+02 0.1333E+01 0.8101E+02 0.2667E+01 0.8113E+02 0.4000E+01 0.8124E+02 0.5333E+01 0.8135E+02
 0.6667E+01 0.8147E+02 0.8000E+01 0.8158E+02 0.9333E+01 0.8169E+02 0.1067E+02 0.8180E+02 0.1200E+02 0.8192E+02
 0.1333E+02 0.8203E+02 0.1467E+02 0.8214E+02 0.1600E+02 0.8226E+02 0.1733E+02 0.8237E+02 0.1867E+02 0.8249E+02
 0.2000E+02 0.8260E+02 0.2133E+02 0.8271E+02 0.2267E+02 0.8282E+02 0.2400E+02 0.8294E+02

HT STRUCT.- 22, TRANS. NRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00 0.0000E+00

, TRANS. NRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.15866E+00 0.75000E+02, ON RIGHT- 0.11825E+00 0.90000E+02
 THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.8107E+02 0.1286E+01 0.8118E+02 0.2571E+01 0.8129E+02 0.3657E+01 0.8140E+02 0.5143E+01 0.8151E+02
 0.6429E+01 0.8163E+02 0.7714E+01 0.8174E+02 0.9000E+01 0.8185E+02

HT STRUCT.- 23, TRANS. NRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00 0.0000E+00

, TRANS. NRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.43822E+00 0.90000E+02, ON RIGHT- 0.52452E+00 0.10200E+03
 THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.9634E+02 0.1458E+00 0.9670E+02

HT STRUCT.- 24, TRANS. NRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00 0.0000E+00

, TRANS. NRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.44666E+00 0.90000E+02, ON RIGHT- 0.68874E+00 0.10200E+03
 THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.9704E+02 0.1456E+00 0.9744E+02

HT STRUCT.- 25, TRANS. NRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00 0.0000E+00

, TRANS. NRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00 0.0000E+00

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HT STRUCT. - 26, TRANS. MRG + MASS RATE, ON LEFT- 0.45321E+00 0.90000E+02, ON RIGHT- 0.52487E+00 0.10400E+03
 THE HTCO AND TBULK ARE/ ON LEFT-
 THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.9729E+02 0.1458E+00 0.9771E+02

HT STRUCT. - 26, TRANS. MRG + MASS RATE, ON LEFT- 0.0000E+00 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 , TRANS. MRG + MASS ACCUM, ON LEFT- 0.0000E+00 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.46449E+00 0.90000E+02, ON RIGHT- 0.68430E+00 0.10400E+03
 THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.9805E+02 0.1458E+00 0.9853E+02

HT STRUCT. - 27 TRANS. MRG + MASS RATE, ON LEFT- 0.0000E+00 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 , TRANS. MRG + MASS ACCUM, ON LEFT- 0.0000E+00 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.12178E+00 0.90000E+02, ON RIGHT- 0.13453E+00 0.90000E+02
 THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.9000E+02 0.1458E+00 0.9000E+02

HT STRUCT. - 28, TRANS. MRG + MASS RATE, ON LEFT- 0.0000E+00 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 , TRANS. MRG + MASS ACCUM, ON LEFT- 0.06000E+00 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.12178E+00 0.90000E+02, ON RIGHT- 0.13453E+00 0.90000E+02
 THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.9000E+02 0.5170E-02 0.9000E+02

HT STRUCT. - 29, TRANS. MRG + MASS RATE, ON LEFT- 0.0000E+00 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 , TRANS. MRG + MASS ACCUM, ON LEFT- 0.0000E+00 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.13453E+00 0.90000E+02, ON RIGHT- 0.13337E+00 0.90000E+02
 THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.9000E+02 0.1458E+00 0.9000E+02

HT STRUCT. - 30, TRANS. MRG + MASS RATE, ON LEFT- 0.0000E+00 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 , TRANS. MRG + MASS ACCUM, ON LEFT- 0.0000E+00 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.13337E+00 0.90000E+02, ON RIGHT- 0.11908E+00 0.90000E+02
 THE COORDINATES AND TEMPERATURES ARE-
 0.0000E+00 0.9000E+02 0.1458E+00 0.9000E+02

HT STRUCT. - 31, TRANS. MRG + MASS RATE, ON LEFT- 0.0000E+00 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 , TRANS. MRG + MASS ACCUM, ON LEFT- 0.0000E+00 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
 THE HTCO AND TBULK ARE/ ON LEFT- 0.13337E+00 0.90000E+02, ON RIGHT- 0.11908E+00 0.90000E+02

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THE COORDINATES AND TEMPERATURES ARE -
0.0000E+00 0.9000E+02 0.5170E-02 0.9000E+07

HT STRUCT. - 32, TRANS. NRG + MASS RATE, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
, TRANS. NRG + MASS ACCUM, ON LFT- 0.0000E+00, ON RGT- 0.0000E+00 0.0000E+00
THE NTCO AND TBLK ARE/ ON LEFT- 0.13337E+00 0.90000E+02, ON RIGHT- 0.11900E+00 0.90000E+02

THE COORDINATES AND TEMPERATURES ARE -
0.0000E+00 0.9000E+02 0.1455E+00 0.9000E+02
TOT NRG + MASS FROM SINKS/LEFT- 0.00000E+00
0.00000E+00, RIGHT- 0.00000E+00 0.00000E+00

TIME = 5.00000 INCREMENTS = 1
TOTAL INCREMENTS = 1
TIME INC. = 5.00000, COMPARED WITH -

VOL	TEMP	PRESSURE	WELRUM	STEAM MASS	FRAC	WATER MASS	FRAC	GAS MASS	FRAC	TOTAL MASS	INT ENERGY	VOLUME
1	9.0349E+01	1.4700E+01	1.9297E-01	4.3227E+00	0.0059	0.0000E+00	0.0000	7.2545E+02	0.9941	7.2977E+02	1.1720E+04	1.0133E+04
2	9.0426E+01	1.4700E+01	1.9253E-01	2.5737E+00	0.0059	0.0000E+00	0.0000	1.4389E+03	0.9941	1.4474E+03	2.3264E+04	2.0099E+04
3	9.0427E+01	1.4700E+01	1.9252E-01	1.0143E+01	0.0059	0.0000E+00	0.0000	1.7022E+03	0.9941	1.7123E+03	2.7522E+04	2.3776E+04
4	9.0331E+01	1.4705E+01	1.9307E-01	2.8228E+00	0.0059	0.0000E+00	0.0000	4.7373E+02	0.9941	4.7655E+02	7.6515E+03	6.6170E+03
5	1.0201E+02	1.4700E+01	4.6989E-01	1.4175E+17	0.0203	0.0000E+00	0.0000	6.8454E+18	0.9797	6.9872E+18	2.3007E+20	1.0000E+20
6	1.0600E+02	1.4700E+01	3.5999E-01	1.1460E+17	0.0165	0.0000E+00	0.0000	6.8391E+18	0.9835	6.9537E+18	2.0646E+20	1.0000E+20
7	1.0200E+02	1.4700E+01	4.6996E-01	1.4175E+17	0.0203	0.0000E+00	0.0000	6.8455E+18	0.9797	6.9873E+18	2.3005E+20	1.0000E+20
8	1.0448E+02	1.4703E+01	3.4661E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8638E+18	0.9836	6.9786E+18	2.0455E+20	1.0000E+20
9	1.0402E+02	1.4700E+01	3.5983E-01	1.1480E+17	0.0164	0.0000E+00	0.0000	6.8635E+18	0.9835	6.9783E+18	2.0455E+20	1.0000E+20
10	1.0448E+02	1.4703E+01	3.4661E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8638E+18	0.9836	6.9786E+18	2.0455E+20	1.0000E+20
11	1.0402E+02	1.4700E+01	3.5983E-01	1.1480E+17	0.0165	0.0000E+00	0.0000	6.8635E+18	0.9835	6.9783E+18	2.0455E+20	1.0000E+20
12	1.0402E+02	1.4700E+01	3.5983E-01	1.1480E+17	0.0165	0.0000E+00	0.0000	6.8635E+18	0.9836	6.9786E+18	2.0455E+20	1.0000E+20
13	1.0400E+02	1.4700E+01	3.5999E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8638E+18	0.9836	6.9785E+18	2.0455E+20	1.0000E+20
14	1.0400E+02	1.4700E+01	3.5999E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8637E+18	0.9836	6.9785E+18	2.0455E+20	1.0000E+20
15	7.5001E+01	1.4700E+01	2.0000E-01	2.6988E+16	0.0936	0.0000E+00	0.0000	7.3973E+18	0.9964	7.4142E+18	8.2371E+19	1.0000E+20

VOL	GM1	KG1	GM2	KG2	GM3	KG3	GM4	KG4	GM5	KG5
1	7.2545E+02	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
2	1.4389E+03	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
3	1.7022E+03	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
4	4.7373E+02	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
5	6.8454E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
6	6.8391E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000

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7	6.8455E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00
8	6.8639E+28	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00
9	6.8635E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00
10	6.8638E+28	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00
11	6.8635E+10	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00
12	6.8635E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00
13	6.8639E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00
14	6.8637E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00
15	7.3873E+18	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00

CHG IN TOTAL MASS -1.03794E+15, TOTAL ENERGY 1.26101E+17
TOTAL BLW DMW MASS- 0.00000E+00, TOTAL BLW DMW ENERGY- 1.54730E+02

JUN	VI	VJ	AREA	ENT LOSS K	EXT LOSS K	CHOKE	STEAM(M/S)	WATER(M/S)	GAS(M/S)	TU (AL(M/S)	ENERGY(EN/S)
1	1	5	1.0000E+00	G3	G4	G5	HO	HO	4.8103E-02	4.8389E-02	2.6405E+00
4	8103E-02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.4939E-02	6.5326E-02	3.5187E+00
2	2	5	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	HO	HO	6.4939E-02	6.5326E-02	3.5187E+00
6	4939E-02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	HO	HO	6.4939E-02	6.5326E-02	3.5187E+00
3	3	5	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	HO	HO	6.4939E-02	6.5326E-02	3.5187E+00
6	5349E-02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	HO	HO	6.4939E-02	6.5326E-02	3.5187E+00
4	4	5	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	HO	HO	6.4939E-02	6.5326E-02	3.5187E+00
4	4052E-02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	HO	HO	6.4939E-02	6.5326E-02	3.5187E+00

TIME= 10.00000 INCREMENTS= 2
TOTAL INCREMENTS= 2
TIME INC.= 5.00000 , COMPARED WITH -

VOL	TEMP	PRESSURE	RELHUM	STEAM MASS	FRAC	WATER MASS	FRAC	GAS MASS	FRAC	TOTAL MASS	IN ENERGY	VOLUME
1	9.0442E+01	1.4703E+01	1.9237E-01	4.3212E+00	0.0059	0.0000E+00	0.0000	7.2521E+02	0.9941	7.2953E+02	1.1727E+04	1.0133E+04
2	9.0619E+01	1.4710E+01	1.9140E-01	8.5717E+00	0.0059	0.0000E+00	0.0000	1.4385E+03	0.9941	1.4471E+03	2.3307E+04	2.0099E+04
3	9.0629E+01	1.4710E+01	1.9134E-01	1.0141E+01	0.0059	0.0000E+00	0.0000	1.7019E+03	0.9941	1.7120E+03	2.7576E+04	2.3776E+04
4	9.0377E+01	1.4700E+01	1.9272E-01	2.8215E+00	0.0059	0.0000E+00	0.0000	4.7351E+02	0.9941	4.7633E+02	7.6517E+03	6.6177E+03
5	1.0202E+02	1.4700E+01	4.6979E-01	1.4176E+17	0.0203	0.0000E+00	0.0000	6.8453E+18	0.9797	6.9871E+18	2.3000E+20	1.0000E+20
6	1.6600E+02	1.4700E+01	3.3997E-01	1.1460E+17	0.0165	0.0000E+00	0.0000	6.8391E+18	0.9835	6.9537E+18	2.0646E+20	1.0000E+20
7	1.0201E+02	1.4700E+01	4.6992E-01	1.4174E+17	0.0203	0.0000E+00	0.0000	6.8455E+18	0.9797	6.9872E+18	2.3005E+20	1.0000E+20
8	1.0448E+02	1.4703E+01	3.4661E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8638E+18	0.9836	6.9786E+18	2.0455E+20	1.0000E+20

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TIME= 3600.000000 INCREMENTS= 720
 TOTAL INCREMENTS= 720
 TIME INC.= 5.000000, COMPARED WITH

VOL	TEMP	PRESSURE	RELUM	STEAM MASS	WAC	WATER MASS	FRAC	GAS MASS	FRAC	TOTAL MASS	INT ENRGY	VOLUME
1	1.0652E+02	1.4700E+01	1.1825E-01	4.1975E+00	0.0059	0.0000E+00	0.0000	7.0445E+02	0.9941	7.0445E+02	1.3353E+04	1.0133E+04
2	1.1421E+02	1.4700E+01	9.4729E-02	8.2139E+00	0.0059	0.0000E+00	0.0000	1.3785E+03	0.9941	1.3785E+03	2.7967E+04	7.0099E+04
3	1.1404E+02	1.4700E+01	9.522E-02	9.7201E+00	0.0059	0.0000E+00	0.0000	1.6313E+03	0.9941	1.6313E+03	3.3046E+04	2.3776E+04
4	1.0484E+02	1.4700E+01	1.2422E-01	2.7492E+00	0.0059	0.0000E+00	0.0000	4.6139E+02	0.9941	4.6139E+02	8.6125E+03	6.6170E+03
5	1.0890E+02	1.4700E+01	3.9000E-01	1.4236E+17	0.0206	0.0000E+00	0.0000	6.7587E+18	0.9794	6.7587E+18	2.3797E+20	1.0000E+20
6	1.0720E+02	1.4700E+01	3.3000E-01	1.1496E+17	0.0166	0.0000E+00	0.0000	6.8237E+18	0.9834	6.8237E+18	2.0809E+20	1.0000E+20
7	1.0390E+02	1.4700E+01	4.4000E-01	1.3994E+17	0.0201	0.0000E+00	0.0000	6.8246E+18	0.9799	6.8246E+18	2.3022E+20	1.0000E+20
8	1.0448E+02	1.4700E+01	3.4661E-01	1.1477E+17	0.0164	0.0000E+00	0.0000	6.8639E+18	0.9836	6.8639E+18	2.0455E+20	1.0000E+20
9	1.2070E+02	1.4700E+01	2.2000E-01	1.0992E+17	0.0162	0.0000E+00	0.0000	6.6688E+18	0.9838	6.6688E+18	2.1674E+20	1.0000E+20
10	1.0448E+02	1.4700E+01	3.4661E-01	1.1479E+17	0.0164	0.0000E+00	0.0000	6.8639E+18	0.9836	6.8639E+18	2.0455E+20	1.0000E+20
11	1.1865E+02	1.4700E+01	2.4000E-01	1.1352E+17	0.0167	0.0000E+00	0.0000	6.6879E+18	0.9833	6.6879E+18	2.1832E+20	1.0000E+20
12	1.1460E+02	1.4700E+01	2.4000E-01	1.1352E+17	0.0167	0.0000E+00	0.0000	6.6879E+18	0.9833	6.6879E+18	2.1832E+20	1.0000E+20
13	1.0450E+02	1.4700E+01	3.5000E-01	1.1316E+17	0.0162	0.0000E+00	0.0000	6.8501E+18	0.9838	6.8501E+18	2.0341E+20	1.0000E+20
14	1.0520E+02	1.4700E+01	3.5000E-01	1.1538E+17	0.0166	0.0000E+00	0.0000	6.8679E+18	0.9834	6.8679E+18	2.0642E+20	1.0000E+20
15	7.5693E+01	1.4700E+01	2.0000E-01	1.1479E+17	0.0167	0.0000E+00	0.0000	7.3781E+18	0.9963	7.3781E+18	8.3528E+19	1.0000E+20

VOL	GM1	GM2	GM3	GM4	GM5	GM6	GM7	GM8	GM9	GM10	GM11	GM12	GM13	GM14	GM15	GM16	GM17	GM18	GM19	GM20	
1	7.0445E+02	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
2	1.3785E+03	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
3	1.6313E+03	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
4	4.6139E+02	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
5	6.7587E+18	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
6	6.8237E+18	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
7	6.8246E+18	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
8	6.8639E+18	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
9	6.6688E+18	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
10	6.8639E+18	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
11	6.6879E+18	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
12	6.6879E+18	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
13	6.8501E+18	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
14	6.8679E+18	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
15	7.3781E+18	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

CNG IN TOTAL MASS -7.07628E+17, TOTAL ENRGY 5.14272E+19
 TOTAL BLW DWN MASS - 0.00000E+00, TOTAL BLW DWN ENRGY - 1.11606E+05

JUN	V1	VJ	AREA	ENT LOSS K	EXT LOSS K	CHOKE STEAM(N/S)	WATER(N/S)	GAS(N/S)	TOTAL(N/S)	ENERGY(EM/S)
	61		62	63	64	65				
1	1	5	1.0000E+00	0.0000E+00	0.0000E+00	NO	2.0932E-06	3.5129E-04	3.5338E-04	2.0404E-02
			0.0000E+00	0.0000E+00	0.0000E+00	NO	0.0000E+00			
2	2	5	1.0000E+00	0.0000E+00	0.0000E+00	NO	1.1004E-05	1.8467E-03	1.8577E-03	1.1071E-01
			0.0000E+00	0.0000E+00	0.0000E+00	NO	0.0000E+00			
3	3	5	1.0000E+00	0.0000E+00	0.0000E+00	NO	1.3394E-05	2.2479E-03	2.2612E-03	1.3466E-01
			0.0000E+00	0.0000E+00	0.0000E+00	NO	0.0000E+00			
4	4	5	1.0000E+00	0.0000E+00	0.0000E+00	NO	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
			0.0000E+00	0.0000E+00	0.0000E+00	NO	0.0000E+00			

TIME= 7200.000000 INCREMENTS= 1440

TOTAL INCREMENTS= 1440

TIME INC.= 5.000000 , COM-NRED WITH -

VOL	TEMP	PRESSURE	PELHUM	STEAM MASS	FRAC	WATER MASS	FRAC	GAS MASS	FRAC	TOTAL MASS	INT ENERGY	VOLUME
1	1.0822E+02	1.4700E+01	1.1252E-01	4.1850E+00	0.0059	0.0000E+00	0.0000	7.0235E+02	0.9941	7.0653E+02	1.3520E+04	1.0133E+04
2	1.1654E+02	1.4700E+01	8.8698E-02	8.1850E+00	0.0059	0.0000E+00	0.0000	1.3729E+03	0.9941	1.3811E+03	2.8409E+04	2.0009E+04
3	1.1637E+02	1.4700E+01	8.9135E-02	9.6807E+00	0.0059	0.0000E+00	0.0000	1.6247E+03	0.9941	1.6343E+03	3.3569E+04	2.3776E+04
4	1.0632E+02	1.4700E+01	1.1893E-01	2.7420E+00	0.0059	0.0000E+00	0.0000	4.6018E+02	0.9941	4.6292E+02	8.7072E+03	6.6170E+03
5	1.1580E+02	1.4700E+01	3.1000E-01	1.3622E+00	0.0200	0.0000E+00	0.0000	6.6848E+18	0.9800	6.8210E+18	2.5872E+20	1.0000E+20
6	1.0850E+02	1.4700E+01	3.2000E-01	1.1552E+00	0.0167	0.0000E+00	0.0000	6.8068E+18	0.9833	6.9223E+18	2.1002E+20	1.0000E+20
7	1.0580E+02	1.4700E+01	4.2000E-01	1.4081E+00	0.0203	0.0000E+00	0.0000	6.7995E+18	0.9797	6.9403E+18	2.3312E+20	1.0000E+20
8	1.0448E+02	1.4700E+01	3.4661E-01	1.1479E+00	0.0164	0.0000E+00	0.0000	6.6638E+18	0.9836	6.9786E+18	2.0453E+20	1.0000E+20
9	1.3740E+02	1.4700E+01	4.0000E-01	1.0641E+00	0.0161	0.0000E+00	0.0000	6.1329E+18	0.9839	6.5893E+18	2.2956E+20	1.0000E+20
10	1.0448E+02	1.4700E+01	3.4661E-01	1.1479E+00	0.0164	0.0000E+00	0.0000	6.8638E+18	0.9836	6.9786E+18	2.0453E+20	1.0000E+20
11	1.3330E+02	1.4700E+01	1.6000E-01	1.1000E+00	0.0166	0.0000E+00	0.0000	6.5232E+18	0.9834	6.6332E+18	2.2914E+20	1.0000E+20
12	1.3330E+02	1.4700E+01	1.6000E-01	1.1000E+00	0.0166	0.0000E+00	0.0000	6.5232E+18	0.9834	6.6332E+18	2.2914E+20	1.0000E+20
13	1.0500E+02	1.4700E+01	3.5000E-01	1.7475E+00	0.0165	0.0000E+00	0.0000	6.8514E+18	0.9835	6.9664E+18	2.0556E+20	1.0000E+20
14	1.0640E+02	1.4700E+01	3.4000E-01	1.1507E+00	0.0167	0.0000E+00	0.0000	6.8322E+18	0.9833	6.9430E+18	2.0818E+20	1.0000E+20
15	1.6200E+01	1.4700E+01	1.9000E-01	2.6623E+16	0.0036	0.0000E+00	0.0000	7.3712E+18	0.9964	7.3978E+18	8.3329E+19	1.0000E+20

VOL	GM1	KG1	GM2	KG2	GM3	KG3	GM4	KG4	GM5	KG5
1	7.0235E+02	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
2	1.3729E+03	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
3	1.6247E+03	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000
4	4.6018E+02	1.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000	0.0000E+00	0.0000

JUN	VI	VJ	AREA	EM ³ LOSS K	EXT LOSS K	CHOKE	STEAM(N/S)	WATER(N/S)	GAS(N/S)	TOTAL(N/S)	ENERGY(EM/S)
1	5	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
5	6.5848E+18	1.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
6	6.8068E+18	1.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
7	6.7995E+18	1.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
8	6.8638E+18	1.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
9	6.4829E+18	1.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
10	6.8638E+18	1.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
11	6.5232E+18	1.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
12	6.5232E+18	1.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
13	6.8514E+18	1.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
14	6.8322E+18	1.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
15	7.3712E+18	1.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000

ENG IN TOTAL MASS -1.38417E+18, TOTAL ENERGY 9.50389E+19
TOTAL BLM DWN MASS- 0.63000E+00, TOTAL BLM DWN ENERGY- 2.22811E+05

JUN	VI	VJ	AREA	EM ³ LOSS K	EXT LOSS K	CHOKE	STEAM(N/S)	WATER(N/S)	GAS(N/S)	TOTAL(N/S)	ENERGY(EM/S)
1	5	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
1	2.6349E-03	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
2	2.5	1.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
3	2.8544E-04	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
4	4.8144E-04	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000
5	2.0129E-03	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000

TIME= 10800.000000 INCREMENTS= 2160
TOTAL INCREMENTS= 2160

TIME INC.= 5.000000, COMPARED WITH -

VOL	TEMP	PRESSURE	REL HUM	STEAM MASS	FRAC	WATER MASS	FRAC	GAS MASS	FRAC	TOTAL MASS	INT ENERGY	VOLUME
1	1.0964E+02	1.4700E+01	1.0800E-01	4.1746E+00	0.0059	0.0000E+00	0.0000	7.0660E+02	0.9941	7.0478E+02	1.3658E+04	1.0133E+04
2	1.1826E+02	1.4700E+01	8.4533E-02	8.1564E+00	0.0059	0.0000E+00	0.0000	1.3468E+03	0.9941	1.3177E+03	2.8730E+04	2.0498E+04
3	1.1814E+02	1.4700E+01	8.4822E-02	9.6511E+00	0.0059	0.0000E+00	0.0000	1.6197E+03	0.9941	1.6293E+03	3.3961E+04	2.3776E+04
4	1.0749E+02	1.4700E+01	1.1494E-01	2.7363E+00	0.0059	0.0000E+00	0.0000	4.5922E+02	0.9941	4.6194E+02	8.7828E+03	6.6170E+03
5	1.2260E+02	1.4700E+01	2.6000E-01	1.3648E+01	0.0202	0.0000E+00	0.0000	6.6037E+03	0.9798	6.7402E+03	2.4589E+05	1.0000E+05
6	1.0970E+02	1.4700E+01	3.1000E-01	1.1563E+01	0.0167	0.0000E+00	0.0000	6.7919E+03	0.9833	6.9075E+03	2.1139E+05	1.0000E+05

TIME= 14400.000000 INCREMENTS= 2880
TOTAL INCREMENTS= 2880
TIME INC.= 5.000000, COMPARED WITH -

VOL	TEMP	PRESSURE	RELHUM	STEAM MASS	FRAC	WATER MASS	FRAC	GAS MASS	FRAC	TOTAL MASS	INT ENERGY	VOLUME
1	1.1103E+02	1.4700E+01	1.0375E-01	4.1644E+00	0.0059	0.0000E+00	0.0000	6.9889E+02	0.9941	7.0306E+02	1.3794E+04	1.0133E+04
2	1.1974E+02	1.4700E+01	8.1113E-02	8.1355E+00	0.0059	0.0000E+00	0.0000	1.3653E+03	0.9941	1.3735E+03	2.9007E+04	2.0009E+04
3	1.1974E+02	1.4700E+01	8.1124E-02	9.6245E+00	0.0059	0.0000E+00	0.0000	1.6152E+03	0.9941	1.6248E+03	3.4311E+04	2.3776E+04
4	1.0857E+02	1.4700E+01	1.1138E-01	2.7311E+00	0.0059	0.0000E+00	0.0000	4.5835E+02	0.9941	4.6110E+02	8.8520E+03	6.6170E+03
5	1.2950E+02	1.4700E+01	2.1000E-01	1.3136E+17	0.0168	0.0000E+00	0.0000	6.5320E+18	0.9803	6.634E+18	2.4712E+20	1.0000E+20
6	1.1090E+02	1.4700E+01	3.0000E-01	1.1560E+17	0.0168	0.0000E+00	0.0000	6.7772E+18	0.9832	6.9208E+18	2.1260E+20	1.0000E+20
7	1.0970E+02	1.4700E+01	3.8000E-01	1.4177E+17	0.0206	0.0000E+00	0.0000	6.7499E+18	0.9794	6.8916E+18	2.3819E+20	1.0000E+20
8	1.0448E+02	1.4703E+01	3.4661E-01	1.1479E+27	0.0164	0.0000E+00	0.0000	6.8638E+28	0.9836	6.9786E+28	2.0455E+30	1.0000E+30
9	1.7080E+02	1.4700E+01	6.3000E-02	1.0245E+17	0.0164	0.0000E+00	0.0000	6.1368E+18	0.9836	6.2392E+18	2.5517E+20	1.0000E+20
10	1.0448E+02	1.4703E+01	3.4661E-01	1.1479E+27	0.0164	0.0000E+00	0.0000	6.8638E+28	0.9836	6.9786E+28	2.0455E+30	1.0000E+30
11	1.6250E+02	1.4700E+01	7.7000E-02	1.0459E+17	0.0165	0.0000E+00	0.0000	6.2174E+18	0.9835	6.3220E+18	2.5025E+20	1.0000E+20
12	1.6250E+02	1.4700E+01	7.7000E-02	1.0459E+17	0.0165	0.0000E+00	0.0000	6.2174E+18	0.9835	6.3220E+18	2.5025E+20	1.0000E+20
13	1.0590E+02	1.4700E+01	3.4000E-01	1.1428E+17	0.0164	0.0000E+00	0.0000	6.8409E+18	0.9836	6.9552E+18	2.0603E+20	1.0000E+20
14	1.0880E+02	1.4700E+01	3.2000E-01	1.1647E+17	0.0168	0.0000E+00	0.0000	6.8015E+18	0.9832	6.9180E+18	2.1131E+20	1.0000E+20
15	7.730E+01	1.4700E+01	1.9000E-01	2.7556E+16	0.0037	0.0000E+00	0.0000	7.3545E+18	0.9963	7.3821E+18	8.5563E+19	1.0000E+20

CHG IN TOTAL MASS -2.64908E+18, TOTAL ENERGY 1.85182E+20

TOTAL BLW DWN MASS- 0.00000E+00, TOTAL BLW DWN ENERGY- 4.45622E+05

JUN	V1	VJ	AREA	ENT LOSS K	EXT LOSS K	CHUKE	STEAM(M/S)	WATER(M/S)	GAS(M/S)	TOTAL(M/S)	ENERGY(EM/S)
	G1	G2	G3	G4	G5						
1	1	5	1.0000E+00	0.0000E+00	0.0000E+00	NO	1.4908E-05	0.0000E+00	2.5019E-03	2.5168E-03	1.4805E-01
			2.5019E-03	0.0000E+00	0.0000E+00		0.0000E+00				
2	2	5	1.0000E+00	0.0000E+00	0.0000E+00	NO	9.6931E-06	0.0000E+00	1.6267E-03	1.6364E-03	9.9700E-02
			1.6267E-03	0.0000E+00	0.0000E+00		0.0000E+00				
3	3	5	1.0000E+00	0.0000E+00	0.0000E+00	NO	1.0860E-05	0.0000E+00	1.8226E-03	1.8335E-03	1.1170E-01
			1.8226E-03	0.0000E+00	0.0000E+00		0.0000E+00				
4	4	5	1.0000E+00	0.0000E+00	0.0000E+00	NO	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
			0.0000E+00	0.0000E+00	0.0000E+00		0.0000E+00				

HT STRUCT.- 1, TRANS. NRG + MASS RATE, ON LFT- -0.3191E+00 0.0000E+00, ON RGT- -0.1148E+01 0.0000E+00

TRANS. NRG + MASS ACCUM, ON LFT- -0.4392E+04 0.0000E+00, ON RGT- -0.9937E+04 0.0000E+00

THE HTCO AND TBLK ARE/ ON LEFT- 0.47383E+00 0.11102E+03, ON RIGHT- 0.87433E+09 0.12949E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.1025E+03 0.1292E+01 0.1012E+03 0.2583E+01 0.1005E+03 0.3875E+01 0.1002E+03 0.5167E+01 0.1004E+03
0.6458E+01 0.1012E+03 0.7750E+01 0.1027E+03 0.9042E+01 0.1050E+03 0.1033E+02 0.1083E+03 0.1163E+02 0.1128E+03

HT STRUCT.- 2, TRANS. NRG + MASS RATE, ON LFT- -0.8946E+00 0.0000E+00, ON RGT- -0.1855E+01 0.0000E+00

TRANS. NRG + MASS ACCUM, ON LFT- -0.1318E+05 0.0000E+00, ON RGT- -0.1620E+05 0.0000E+00

THE HTCO AND TBLK ARE/ ON LEFT- 0.53955E+00 0.11974E+03, ON RIGHT- 0.87297E+00 0.12949E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.1069E+03 0.1292E+01 0.1047E+03 0.2583E+01 0.1031E+03 0.3875E+01 0.1021E+03 0.5167E+01 0.1018E+03
0.6458E+01 0.1022E+03 0.7750E+01 0.1033E+03 0.9042E+01 0.1054E+03 0.1033E+02 0.1086E+03 0.1163E+02 0.1130E+03

HT STRUCT.- 3, TRANS. NRG + MASS RATE, ON LFT- -0.6079E+00 0.0000E+00, ON RGT- -0.3759E+00 0.0000E+00

TRANS. NRG + MASS ACCUM, ON LFT- -0.8672E+04 0.0000E+00, ON RGT- -0.4556E+04 0.0000E+00

THE HTCO AND TBLK ARE/ ON LEFT- 0.53069E+00 0.11974E+03, ON RIGHT- 0.70202E+00 0.11090E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.1076E+03 0.1292E+01 0.1056E+03 0.2583E+01 0.1040E+03 0.3875E+01 0.1030E+03 0.5167E+01 0.1024E+03
0.6458E+01 0.1022E+03 0.7750E+01 0.1025E+03 0.9042E+01 0.1030E+03 0.1033E+02 0.1040E+03 0.1163E+02 0.1052E+03

HT STRUCT.- 4, TRANS. NRG + MASS RATE, ON LFT- -0.5584E-01 0.0000E+00, ON RGT- -0.3656E-01 0.0000E+00

TRANS. NRG + MASS ACCUM, ON LFT- -0.8011E+03 0.0000E+00, ON RGT- -0.3875E+03 0.0000E+00

THE HTCO AND TBLK ARE/ ON LEFT- 0.54076E+00 0.11974E+03, ON RIGHT- 0.73546E+00 0.10970E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.1045E+03 0.1292E+01 0.1043E+03 0.2583E+01 0.1026E+03 0.3875E+01 0.1013E+03 0.5167E+01 0.1006E+03
0.6458E+01 0.1003E+03 0.7750E+01 0.1004E+03 0.9042E+01 0.1010E+03 0.1033E+02 0.1011E+03 0.1163E+02 0.1034E+03

HT STRUCT.- 5, TRANS. NRG + MASS RATE, ON LFT- -0.3623E+00 0.0000E+00, ON RGT- -0.5234E+00 0.0000E+00

, TRANS. NRG + MASS ACCUM, ON LFT- -0.4947E+04 0.0000E+00, ON RGT- -0.5380E+04 0.0000E+00
THE HTCD AND TBULK ARE/ ON LEFT- 0.45392E+00 0.10857E+03, ON RIGHT- 0.7387E+00 0.10970E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.1012E+03 0.1292E+01 0.1002E+03 0.2583E+01 0.9944E+02 0.3875E+01 0.9904E+02 0.5167E+01 0.9895E+02
0.6458E+01 0.9915E+02 0.7750E+01 0.9942E+01 0.9042E+01 0.1005E+03 0.1033E+02 0.1016E+03 0.1163E+02 0.1031E+03

HT STRUCT.- 6, TRANS. NRG + MASS RATE, ON LFT- -0.2178E+01 0.0000E+00, ON RGT- -0.1316E+00 0.0000E+00

, TRANS. NRG + MASS ACCUM, ON LFT- -0.2931E+04 0.0000E+00, ON RGT- -0.2112E+04 0.0000E+00
THE HTCD AND TBULK ARE/ ON LEFT- 0.44653E+00 0.10857E+03, ON RIGHT- 0.62991E+00 0.10448E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.1017E+03 0.1292E+01 0.1007E+03 0.2583E+01 0.1001E+03 0.3875E+01 0.9971E+02 0.5167E+01 0.9958E+02
0.6458E+01 0.9967E+02 0.7750E+01 0.9994E+02 0.9042E+01 0.1004E+03 0.1033E+02 0.1009E+03 0.1163E+02 0.1015E+03

HT STRUCT.- 7, TRANS. NRG + MASS RATE, ON LFT- -0.2120E+01 0.0000E+00, ON RGT- -0.1209E+02 0.0000E+00

, TRANS. NRG + MASS ACCUM, ON LFT- -0.3198E+05 0.0000E+00, ON RGT- -0.9898E+05 0.0000E+00
THE HTCD AND TBULK ARE/ ON LEFT- 0.54928E+00 0.11974E+03, ON RIGHT- 0.10267E+01 0.17078E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.1017E+03 0.1292E+01 0.1058E+03 0.2583E+01 0.1047E+03 0.3875E+01 0.1045E+03 0.5167E+01 0.1053E+03
0.6458E+01 0.1073E+03 0.7750E+01 0.1109E+03 0.9042E+01 0.1164E+03 0.1033E+02 0.1244E+03 0.1163E+02 0.1355E+03

HT STRUCT.- 8, TRANS. NRG + MASS RATE, ON LFT- -0.1042E+01 0.0000E+00, ON RGT- -0.2593E+00 0.0000E+00

, TRANS. NRG + MASS ACCUM, ON LFT- -0.1502E+05 0.0000E+00, ON RGT- -0.4521E+04 0.0000E+00
THE HTCD AND TBULK ARE/ ON LEFT- 0.53715E+00 0.11974E+03, ON RIGHT- 0.62342E+00 0.10448E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.1017E+03 0.1292E+01 0.1049E+03 0.2583E+01 0.1032E+03 0.3875E+01 0.1020E+03 0.5167E+01 0.1012E+03
0.6458E+01 0.1008E+03 0.7750E+01 0.1007E+03 0.9042E+01 0.1009E+03 0.1033E+02 0.1012E+03 0.1163E+02 0.1018E+03

HT STRUCT.- 9, TRANS. NRG + MASS RATE, ON LFT- -0.1761E+00 0.0000E+00, ON RGT- -0.8282E-01 0.0000E+00

, TRANS. NRG + MASS ACCUM, ON LFT- -0.2338E+04 0.0000E+00, ON RGT- -0.1347E+04 0.0000E+00
THE HTCD AND TBULK ARE/ ON LEFT- 0.47021E+00 0.11102E+03, ON RIGHT- 0.62884E+00 0.10448E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.1027E+03 0.1292E+01 0.1015E+03 0.2583E+01 0.1007E+03 0.3875E+01 0.1001E+03 0.5167E+01 0.9987E+02
0.6458E+01 0.9986E+02 0.7750E+01 0.1001E+03 0.9042E+01 0.1004E+03 0.1033E+02 0.1010E+03 0.1163E+02 0.1016E+03

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HT STRUCT.- 21, TRANS. MCG + MASS RATE, ON LFT- 0.2598E+00, ON RGT- -0.2158E+01 0.0000E+00
0.0000E+00 0.8191E+02 0.1286E+01 0.8203E+02 0.2571E+01 0.8221E+02 0.3857E+01 0.8245E+02 0.5143E+01 0.8276E+02
0.6429E+01 0.8315E+02 0.7714E+01 0.8361E+02 0.9000E+01 0.8416E+02

TRANS. MCG + MASS RATE, ON LFT- 0.2598E+00, ON RGT- -0.2158E+01 0.0000E+00
THE HTCD AND TBLK ARE/ ON LEFT- 0.16212E+00 0.4752E+04 0.0000E+00, ON RGT- -0.2741E+05 0.0000E+00
THE COORDINATES AND TEMPERATURES ARE- 0.77299E+02, ON RIGHT- 0.14293E+00 0.11974E+03
0.0000E+00 0.8101E+02 0.1333E+01 0.8109E+02 0.2667E+01 0.8118E+02 0.4000E+01 0.8128E+02 0.5333E+01 0.8138E+02
0.6667E+01 0.8149E+02 0.8900E+01 0.8160E+02 0.9333E+01 0.8172E+02 0.1067E+02 0.8184E+02 0.1200E+02 0.8198E+02
0.1333E+02 0.8213E+02 0.1467E+02 0.8230E+02 0.1600E+02 0.8249E+02 0.1733E+02 0.8272E+02 0.1867E+02 0.8300E+02
0.2000E+02 0.83...E+02 0.2133E+02 0.8372E+02 0.2267E+02 0.8420E+02 0.2400E+02 0.8475E+02

HT STRUCT.- 22, TRANS. MCG + MASS RATE, ON LFT- 0.7908E-01 0.0000E+00, ON RGT- -0.3818E+00 0.0000E+00
TRANS. MCG + MASS ACCUM, ON LFT- 0.1384E+04 0.0000E+00, ON RGT- -0.4919E+04 0.0000E+00
THE HTCD AND TBLK ARE/ ON LEFT- 0.16228E+00 0.77299E+02, ON RIGHT- 0.12357E+00 0.10857E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.8136E+02 0.1286E+01 0.8145E+02 0.2571E+01 0.8158E+02 0.3857E+01 0.8175E+02 0.5143E+01 0.8196E+02
0.6429E+01 0.8221E+02 0.7714E+01 0.8251E+02 0.9000E+01 0.8285E+02

HT STRUCT.- 23, TRANS. MCG + MASS RATE, ON LFT- 0.5288E-01 0.0000E+00, ON RGT- -0.3571E-01 0.0000E+00
TRANS. MCG + MASS ACCUM, ON LFT- -0.6130E+01 0.0000E+00, ON RGT- -0.5857E+02 0.0000E+00
THE HTCD AND TBLK ARE/ ON LEFT- 0.42500E+00 0.11974E+03, ON RIGHT- 0.53142E+00 0.12949E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1248E+03 0.1458E+00 0.1251E+03

HT STRUCT.- 24, TRANS. MCG + MASS RATE, ON LFT- 0.1079E-02 0.0000E+00, ON RGT- -0.1469E-02 0.0000E+00
TRANS. MCG + MASS ACCUM, ON LFT- 0.1061E+01 0.0000E+00, ON RGT- -0.1175E+02 0.0000E+00
THE HTCD AND TBLK ARE/ ON LEFT- 0.27534E+00 0.10857E+03, ON RIGHT- 0.55976E+00 0.10970E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1092E+03 0.1458E+00 0.1093E+03

HT STRUCT.- 25, TRANS. MCG + MASS RATE, ON LFT- 0.2147E+00 0.0000E+00, ON RGT- -0.2200E+00 0.0000E+00
TRANS. MCG + MASS ACCUM, ON LFT- 0.1164E+04 0.0000E+00, ON RGT- -0.1261E+04 0.0000E+00
THE HTCD AND TBLK ARE/ ON LEFT- 0.63190E+00 0.11974E+03, ON RIGHT- 0.73617E+00 0.17078E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1458E+03 0.1458E+00 0.1479E+03

HT STRUCT.- 26, TRANS. MCG + MASS RATE, ON LFT- 0.2432E+00 0.0000E+00, ON RGT- -0.2481E+00 0.0000E+00

HT STRUCT.- 10, TRANS. MRG + MASS RATE, ON LFT- -0.4828E+00 0.0000E+00, ON RGT- -0.4320E+01 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- -0.6916E+04 0.0000E+00, ON RGT- -0.3554E+05 0.0000E+00
THE NTCO AND TBULK ARE/ ON LEFT- 0.46164E+00 0.11102E+03, ON RIGHT- 0.99722E+00 0.16248E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1034E+03 0.1292E+01 0.1024E+03 0.2583E+01 0.1020E+03 0.3875E+01 0.1023E+03 0.5167E+01 0.1034E+03
0.6458E+01 0.1055E+03 0.7750E+01 0.1089E+03 0.9042E+01 0.1139E+03 0.1033E+02 0.1210E+03 0.1163E+02 0.1307E+03
HT STRUCT.- 11, TRANS. MRG + MASS RATE, ON LFT- -0.2088E+00 0.0000E+00, ON RGT- -0.1868E+01 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- -0.2991E+04 0.0000E+00, ON RGT- -0.1537E+05 0.0000E+00
THE NTCO AND TBULK ARE/ ON LEFT- 0.46164E+00 0.11102E+03, ON RIGHT- 0.99722E+00 0.16248E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1034E+03 0.1292E+01 0.1024E+03 0.2583E+01 0.1020E+03 0.3875E+01 0.1023E+03 0.5167E+01 0.1034E+03
0.6458E+01 0.1055E+03 0.7750E+01 0.1089E+03 0.9042E+01 0.1139E+03 0.1033E+02 0.1210E+03 0.1163E+02 0.1307E+03
HT STRUCT.- 12, TRANS. MRG + MASS RATE, ON LFT- -0.7110E+00 0.0000E+00, ON RGT- -0.1162E+01 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- -0.1170E+05 0.0000E+00, ON RGT- -0.1867E+05 0.0000E+00
THE NTCO AND TBULK ARE/ ON LEFT- 0.46693E+00 0.11102E+03, ON RIGHT- 0.54926E+00 0.11974E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1014E+03 0.1271E+01 0.9946E+02 0.2542E+01 0.9652E+02 0.3815E+01 0.9868E+02 0.5083E+01 0.9996E+02
0.6354E+01 0.1024E+03 0.7625E+01 0.1059E+03
HT STRUCT.- 13, TRANS. MRG + MASS RATE, ON LFT- -0.1571E+01 0.0000E+00, ON RGT- -0.1574E+01 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- -0.2389E+05 0.0000E+00, ON RGT- -0.2373E+05 0.0000E+00
THE NTCO AND TBULK ARE/ ON LEFT- 0.56562E+00 0.11974E+03, ON RIGHT- 0.56478E+00 0.11974E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1040E+03 0.1292E+01 0.1012E+03 0.2563E+01 0.9900E+02 0.3875E+01 0.9753E+02 0.5167E+01 0.9679E+02
0.6458E+01 0.9678E+02 0.7750E+01 0.9759E+02 0.9042E+01 0.9894E+02 0.1033E+02 0.1011E+03 0.1163E+02 0.1040E+03
HT STRUCT.- 14, TRANS. MRG + MASS RATE, ON LFT- -0.1184E+01 0.0000E+00, ON RGT- -0.6010E+00 0.0000E+00
, TRANS. MRG + MASS ACCUM, ON LFT- -0.1869E+05 0.0000E+00, ON RGT- -0.1022E+05 0.0000E+00
THE NTCO AND TBULK ARE/ ON LEFT- 0.54969E+00 0.11974E+03, ON RIGHT- 0.66798E+00 0.10857E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1057E+03 0.1271E+01 0.1021E+03 0.2542E+01 0.9963E+02 0.3813E+01 0.9822E+02 0.5083E+01 0.9775E+02
0.6354E+01 0.9856E+02 0.7625E+01 0.1002E+03
HT STRUCT.- 15, TRANS. MRG + MASS RATE, ON LFT- -0.1292E+01 0.0000E+00, ON RGT- -0.2779E+00 0.0000E+00

TRANS. MRG + MASS ACCUM, ON LFT- -0.1398E+05 0.0000E+00, ON RGT- -0.3508E+04 0.0000E+00
THE NTCO AND TBLK ARE/ ON LEFT- 0.78703E+00 0.11102E+03, ON RIGHT- 0.26457E+00 0.10590E+03

THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1021E+03 0.1333E+01 0.1014E+03 0.2667E+01 0.1008E+03 0.4000E+01 0.1004E+03 0.5333E+01 0.1001E+03
0.6667E+01 0.9999E+02 0.8000E+01 0.9993E+02 0.9333E+01 0.9995E+02 0.1067E+02 0.1000E+03 0.1200E+02 0.1002E+03

HT STRUCT.- 16, TRANS. MRG + MASS RATE, ON LFT- -0.4931E+01 0.0000E+00, ON RGT- -0.5535E+00 0.0000E+00

TRANS. MRG + MASS ACCUM, ON LFT- -0.6184E+05 0.0000E+00, ON RGT- -0.7232E+04 0.0000E+00
THE NTCO AND TBLK ARE/ ON LEFT- 0.91884E+00 0.11974E+03, ON RIGHT- 0.26457E+00 0.10550E+03

THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1050E+03 0.1333E+01 0.1036E+03 0.2667E+01 0.1036E+03 0.4000E+01 0.1015E+03 0.5333E+01 0.1000E+03
0.6667E+01 0.1004E+03 0.8000E+01 0.1001E+03 0.9333E+01 0.1000E+03 0.1067E+02 0.1000E+03 0.1200E+02 0.1002E+03

HT STRUCT.- 17, TRANS. MRG + MASS RATE, ON LFT- -0.5032E+01 0.0000E+00, ON RGT- -0.5755E+00 0.0000E+00

TRANS. MRG + MASS ACCUM, ON LFT- -0.7231E+05 0.0000E+00, ON RGT- -0.1084E+05 0.0000E+00
THE NTCO AND TBLK ARE/ ON LEFT- 0.91781E+00 0.11974E+03, ON RIGHT- 0.26499E+00 0.10880E+03

THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1050E+03 0.1333E+01 0.1036E+03 0.2667E+01 0.1024E+03 0.4000E+01 0.1015E+02 0.5333E+01 0.1009E+03
0.6667E+01 0.1005E+03 0.8000E+01 0.1002E+03 0.9333E+01 0.1002E+03 0.1067E+02 0.1002E+03 0.1200E+02 0.1004E+03

HT STRUCT.- 18, TRANS. MRG + MASS RATE, ON LFT- -0.6330E+00 0.0000E+00, ON RGT- -0.2709E+00 0.0000E+00

TRANS. MRG + MASS ACCUM, ON LFT- -0.6732E+04 0.0000E+00, ON RGT- -0.2915E+04 0.0000E+00
THE NTCO AND TBLK ARE/ ON LEFT- 0.73744E+00 0.10857E+03, ON RIGHT- 0.26499E+00 0.10880E+03

THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1014E+03 0.1333E+01 0.1009E+03 0.2667E+01 0.1005E+03 0.4000E+01 0.1002E+03 0.5333E+01 0.1000E+03
0.6667E+01 0.9995E+02 0.8000E+01 0.9994E+02 0.9333E+01 0.1001E+03 0.1067E+02 0.1002E+03 0.1200E+02 0.1004E+03

HT STRUCT.- 19, TRANS. MRG + MASS RATE, ON LFT- 0.1241E+00 0.0000E+00, ON RGT- -0.6537E+00 0.0000E+00

TRANS. MRG + MASS ACCUM, ON LFT- 0.2153E+04 0.0000E+00, ON RGT- -0.8309E+04 0.0000E+00
THE NTCO AND TBLK ARE/ ON LEFT- 0.16232E+00 0.77279E+02, ON RIGHT- 0.12721E+00 0.11102E+03

THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.8145E+02 0.1215E+01 0.8155E+02 0.2571E+01 0.8170E+02 0.3857E+01 0.8188E+02 0.5143E+01 0.8211E+02
0.6429E+01 0.8238E+02 0.7714E+01 0.8271E+02 0.9000E+01 0.8309E+02

HT STRUCT.- 20, TRANS. MRG + MASS RATE, ON LFT- 0.2735E+00 0.0000E+00, ON RGT- -0.1869E+01 0.0000E+00

TRANS. MRG + MASS ACCUM, ON LFT- 0.4581E+04 0.0000E+00, ON RGT- -0.2389E+05 0.0000E+00
THE NTCO AND TBLK ARE/ ON LEFT- 0.16253E+00 0.77299E+02, ON RIGHT- 0.14392E+00 0.11974E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.8101E+02 0.1286E+01 0.8203E+02 0.2571E+01 0.8221E+02 0.3857E+01 0.8245E+02 0.5143E+01 0.8276E+02
0.6429E+01 0.8315E+02 0.7714E+01 0.8361E+02 0.9000E+01 0.8416E+02

HT STRUCT.- 21, TRANS. NRG + MASS RATE, ON LFT- 0.2598E+00 0.0000E+00, ON RGT- -0.2158E+01 0.0000E+00

TRANS. NRG + MASS ACCUM, ON LFT- 0.4752E+04 0.0000E+00, ON RGT- -0.2741E+05 0.0000E+00

THE HTCO AND TBULK ARE/ ON LEFT- 0.16212E+00 0.77299E+02, ON RIGHT- 0.14293E+00 0.11974E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.101E+02 0.1333E+01 0.8109E+02 0.2567E+01 0.8118E+02 0.4000E+01 0.8128E+02 0.5333E+01 0.8138E+02
0.6667E+01 0.8149E+02 0.8000E+01 0.8160E+02 0.1000E+01 0.8172E+02 0.1067E+02 0.8184E+02 0.1200E+02 0.8198E+02
0.1333E+02 0.8213E+02 0.1467E+02 0.8230E+02 0.1000E+02 0.8249E+02 0.1733E+02 0.8272E+02 0.1867E+02 0.8300E+02
0.2000E+02 0.8333E+02 0.2133E+02 0.8372E+02 0.2267E+02 0.8420E+02 0.2400E+02 0.8475E+02

HT STRUCT.- 22, TRANS. NRG + MASS RATE, ON LFT- 0.7908E-01 0.0000E+00, ON RGT- -0.3818E+00 0.0000E+00

TRANS. NRG + MASS ACCUM, ON LFT- 0.1384E+04 0.0000E+00, ON RGT- -0.4919E+04 0.0000E+00

THE HTCO AND TBULK ARE/ ON LEFT- 0.16228E+00 0.77299E+02, ON RIGHT- 0.12357E+00 0.10857E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.8136E+02 0.1286E+01 0.8145E+02 0.2571E+01 0.8158E+02 0.3857E+01 0.8175E+02 0.5143E+01 0.8196E+02
0.6429E+01 0.8221E+02 0.7714E+01 0.8251E+02 0.9000E+01 0.8285E+02

HT STRUCT.- 23, TRANS. NRG + MASS RATE, ON LFT- 0.3288E-01 0.0000E+00, ON RGT- -0.3571E-01 0.0000E+00

TRANS. NRG + MASS ACCUM, ON LFT- -0.6130E+01 0.0000E+00, ON RGT- -0.5857E+02 0.0000E+00

THE HTCO AND TBULK ARE/ ON LEFT- 0.42500E+00 0.11974E+03, ON RIGHT- 0.53142E+00 0.12949E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.1248E+03 0.1458E+00 0.1251E+03

HT STRUCT.- 24, TRANS. NRG + MASS RATE, ON LFT- 0.1079E-02 0.0000E+00, ON RGT- -0.1469E-02 0.0000E+00

TRANS. NRG + MASS ACCUM, ON LFT- 0.1061E+01 0.0000E+00, ON RGT- -0.1175E+02 0.0000E+00

THE HTCO AND TBULK ARE/ ON LEFT- 0.27534E+00 0.10857E+03, ON RIGHT- 0.55976E+00 0.10970E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.1092E+03 0.1458E+00 0.1093E+03

HT STRUCT.- 25, TRANS. NRG + MASS RATE, ON LFT- 0.2147E+00 0.0000E+00, ON RGT- -0.2200E+00 0.0000E+00

TRANS. NRG + MASS ACCUM, ON LFT- 0.1164E+04 0.0000E+00, ON RGT- -0.1261E+04 0.0000E+00

THE HTCO AND TBULK ARE/ ON LEFT- 0.63190E+00 0.11974E+03, ON RIGHT- 0.73617E+00 0.17078E+03

THE COORDINATES AND TEMPERATURES ARE-

0.0000E+00 0.1458E+03 0.1458E+00 0.1479E+03

HT STRUCT.- 26, TRANS. NRG + MASS RATE, ON LFT- 0.2432E+00 0.0000E+00, ON RGT- -0.2481E+00 0.0000E+00

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TRANS. MRG + MASS ACCUM, ON LFT- 0.1543E+04 0.0000E+00, ON RGT- -0.1627E+04 0.0000E+00
THE HTCO AND TBULK ARE/ ON LEFT- 0.64693E+00 0.11102E+03, ON RIGHT- 0.93802E+00 0.16248E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1398E+03 0.1458E+00 0.1422E+03

HT STRUCT.- 27, TRANS. MRG + MASS RATE, ON LFT- 0.1204E-01 0.0000E+00, ON RGT- -0.1245E-01 0.0000E+00
TRANS. MRG + MASS ACCUM, ON LFT- 0.1439E+03 0.0000E+00, ON RGT- -0.1703E+03 0.0000E+00
THE HTCO AND TBULK ARE/ ON LEFT- 0.40537E+00 0.11102E+03, ON RIGHT- 0.42128E+00 0.11974E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1153E+03 0.1458E+00 0.1155E+03

HT STRUCT.- 28, TRANS. MRG + MASS RATE, ON LFT- 0.6486E-01 0.0000E+00, ON RGT- -0.6621E-01 0.0000E+00
TRANS. MRG + MASS ACCUM, ON LFT- 0.7945E+03 0.0000E+00, ON RGT- -0.8800E+03 0.0000E+00
THE HTCO AND TBULK ARE/ ON LEFT- 0.40818E+00 0.11102E+03, ON RIGHT- 0.42309E+00 0.11974E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1154E+03 0.5170E-02 0.1154E+03

HT STRUCT.- 29, TRANS. MRG + MASS RATE, ON LFT- -0.4324E-03 0.0000E+00, ON RGT- -0.4134E-03 0.0000E+00
TRANS. MRG + MASS ACCUM, ON LFT- -0.3202E+02 0.0000E+00, ON RGT- -0.2546E+02 0.0000E+00
THE HTCO AND TBULK ARE/ ON LEFT- 0.24703E+00 0.11974E+03, ON RIGHT- 0.24488E+00 0.11974E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1196E+03 0.1458E+00 0.1196E+03

HT STRUCT.- 30, TRANS. MRG + MASS RATE, ON LFT- 0.1423E-01 0.0000E+00, ON RGT- 0.1389E-01 0.0000E+00
TRANS. MRG + MASS ACCUM, ON LFT- -0.1809E+03 0.0000E+00, ON RGT- 0.1594E+03 0.0000E+00
THE HTCO AND TBULK ARE/ ON LEFT- 0.44195E+00 0.11974E+03, ON RIGHT- 0.42513E+00 0.10857E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1143E+03 0.1458E+00 0.1140E+03

HT STRUCT.- 31, TRANS. MRG + MASS RATE, ON LFT- -0.6487E-01 0.0000E+00, ON RGT- 0.6394E-01 0.0000E+00
TRANS. MRG + MASS ACCUM, ON LFT- -0.8064E+03 0.0000E+00, ON RGT- 0.7467E+03 0.0000E+00
THE HTCO AND TBULK ARE/ ON LEFT- 0.44419E+00 0.11974E+03, ON RIGHT- 0.42815E+00 0.10857E+03
THE COORDINATES AND TEMPERATURES ARE-
0.0000E+00 0.1142E+03 0.5170E-02 0.1142E+03

HT STRUCT.- 32, TRANS. MRG + MASS RATE, ON LFT- -0.1813E-01 0.0000E+00, ON RGT- 0.1770E-01 0.0000E+00

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TRANS. MRC + MASS ACCUM, ON LEFT -0.2305E+03 0.0000E+00, ON RIGHT -0.2031E+03 0.0000E+00
THE HTCD AND TBLK ARE/ ON LEFT- 0.44195E+00 0.11974E+03, ON RIGHT- 0.42513E+00 0.10857E+03
THE COORDINATES AND TEMPERATURES ARE -
0.0000E+00 0.1143E+03 0.1458E+00 0.1140E+03
TOT MRG + MASS FROM SINKS/LEFT- -2.86039E+05 0.00000E+00, RIGHT- -3.38670E+05 0.00000E+00

PLOT DATA FILE CREATED 577 PLOT RECORDS CREATED DURING THIS RUN
0 COMBI.D PLOT RECORDS CREATED

NT= 2000

End time = 05/10/92 13:31:40