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Chang Li



GE Nuclear Energy

ABWR

Date 5-11-92

Fax No. UCS-01

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Subject ABWR SUBCOMPARTMENT PRESSURIZATION
ANALYSES

Message ENCLOSED 18 FIGURES PROVIDE BLOWDOWN
MASS ENERGY DATA USED IN SUBJECT
ANALYSES. THE MASS BLOWDOWN
DATA ACCOUNT FOR FRICTIONAL
EFFECTS (VALVES EQUIPMENT PIPING) BETWEEN
R.P.V AND THE PIPE BREAK LOCATION
EXHIBIT A PROVIDES INDEX TO THESE FIGURES

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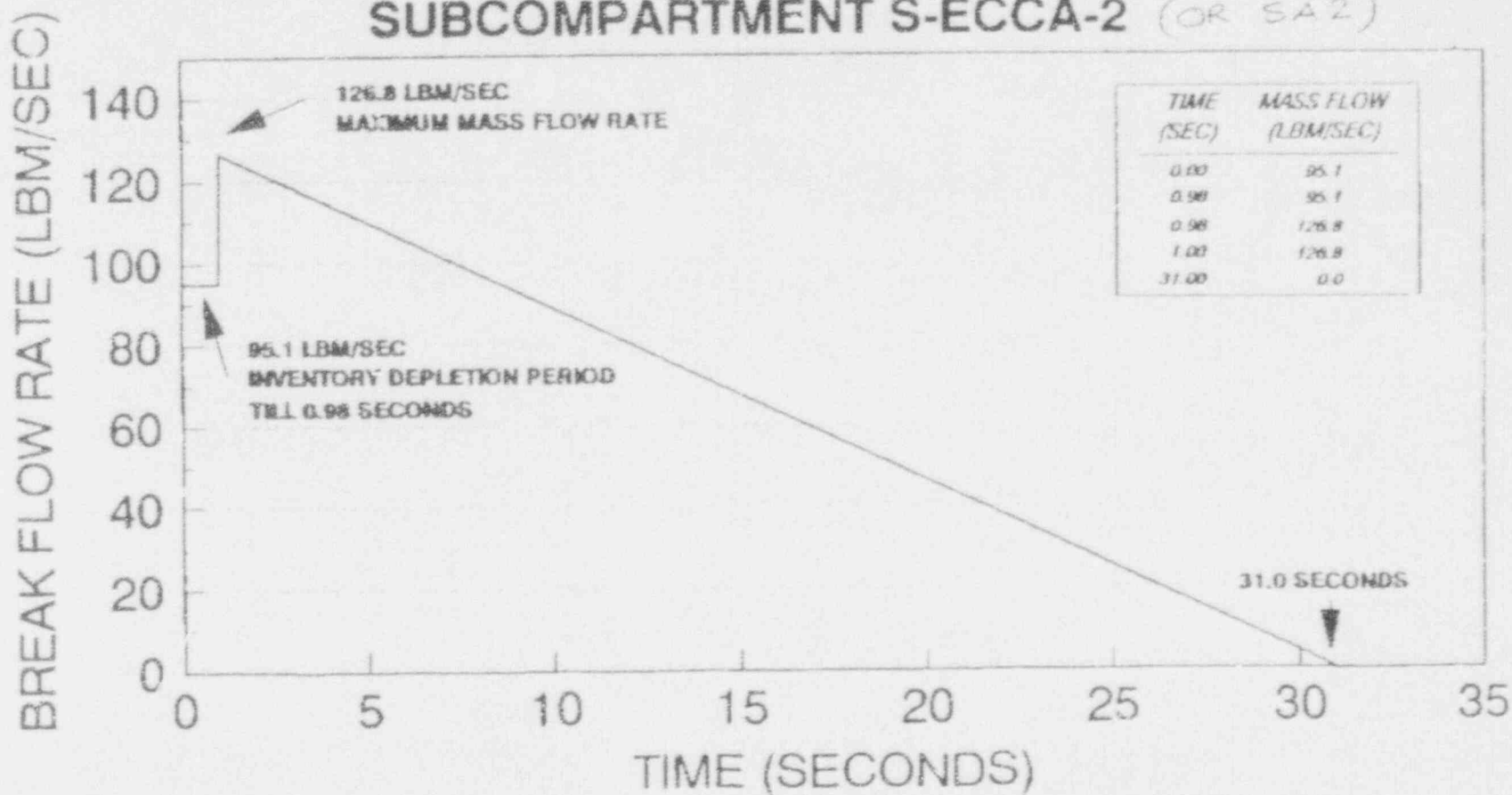
BEST REGARDS

EXHIBIT A

Blowdown Mass Energy Data Used
in Subcompartment Pressurization Analyses

ITEM	FIGURE NUMBER	S/C LOCATION	FLOW ENTHALPY
<u>BREAK IN ECOS ROOMS</u>			
#1	C - 1A	SA 2	CONST. VALUE OF 1184.0 Btu/lbm
#2	C - 1B	SA 3	-ditto-
#3	C - 1C	SA 4	-ditto-
#4	C - 1D	SA 5	-ditto-
#5	C - 1E	SA 6	-ditto-
#6	C - 1F	SA 7	-ditto-
<u>BREAK IN RWCU ROOMS</u>			
#7	C - 2L	SR 1	CONST. VALUE OF 530.0 Btu/lbm
#8	C - 2K	SR 2	-ditto-
#9	C - 2I	SR 5	-ditto-
#10	C - 2H	SR 6	-ditto-
#11	C - 2D	SR 7	-ditto-
#12	C - 2E	SR 8	-ditto-
#13	C - 2G	SR 9	-ditto-
#14	C - 2F	SR 10	-ditto-
#15	C - 2B	SR 11	-ditto-
#16	C - 2C	SR 12	-ditto-
#17	C - 2A	SR 13	-ditto-
<u>BREAK IN MAIN STEAM TUNNEL</u>			
#18	C - 3A	SS 1	SHOWN IN FIG C-3A

FIGURE C-1A.
BREAK FLOW RATE VS. TIME
SUBCOMPARTMENT S-ECCA-2 (OR SA2)

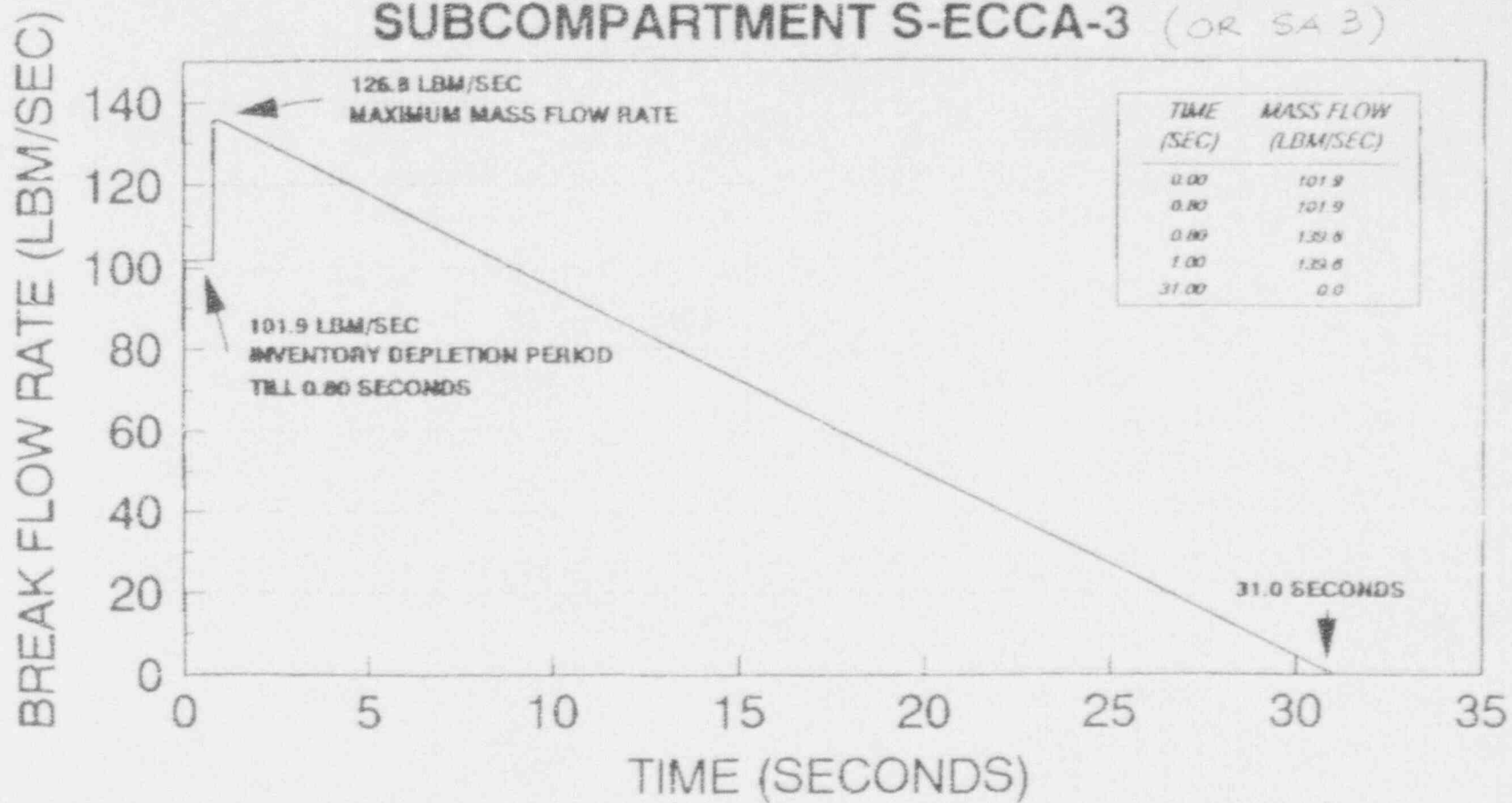


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100-11-20-1115041 S E 1001200P B100 1

FIGURE C-1B.
BREAK FLOW RATE VS. TIME
SUBCOMPARTMENT S-ECCA-3 (OR SA 3)



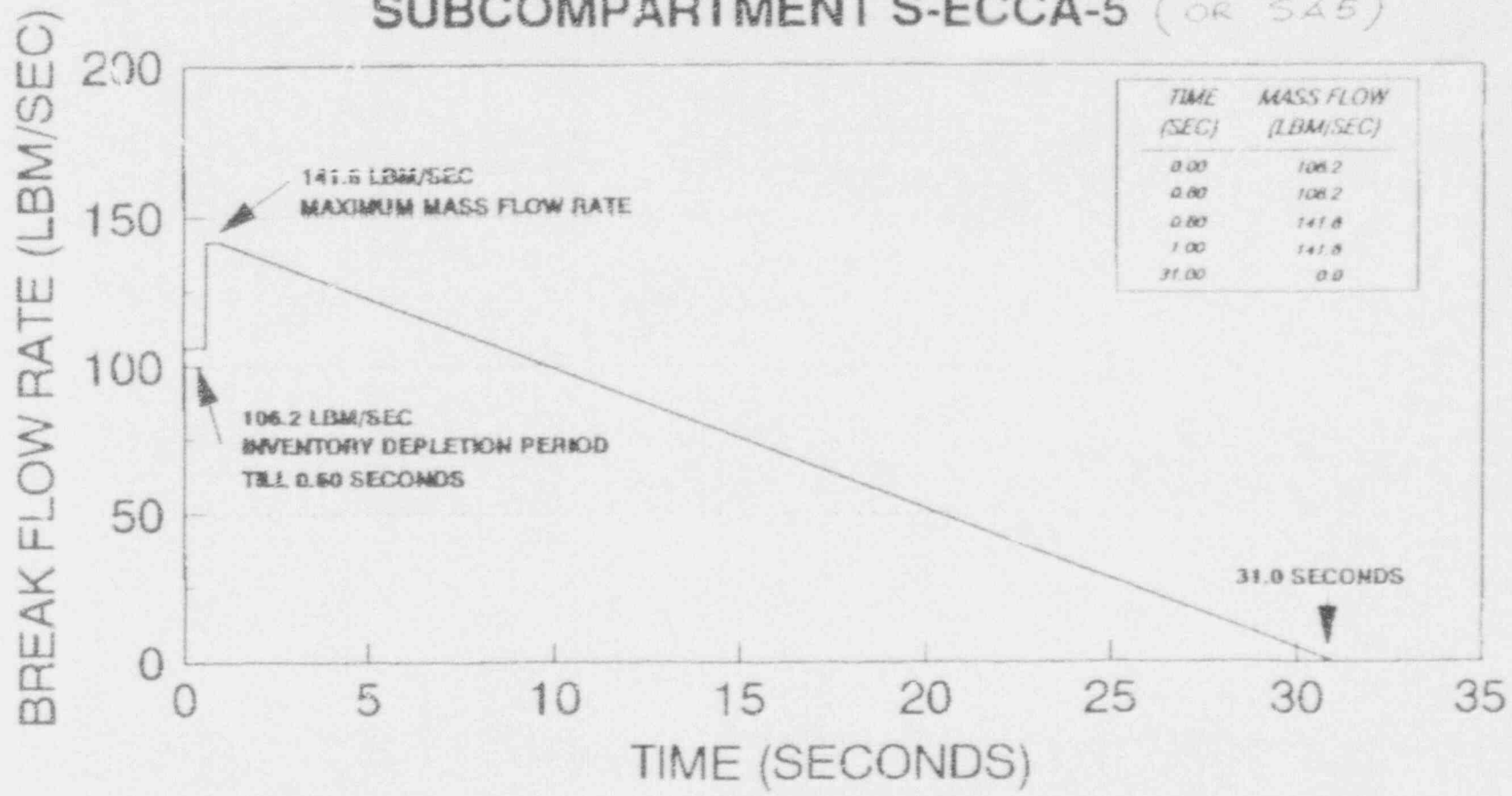
#2

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FIGURE C-1D.

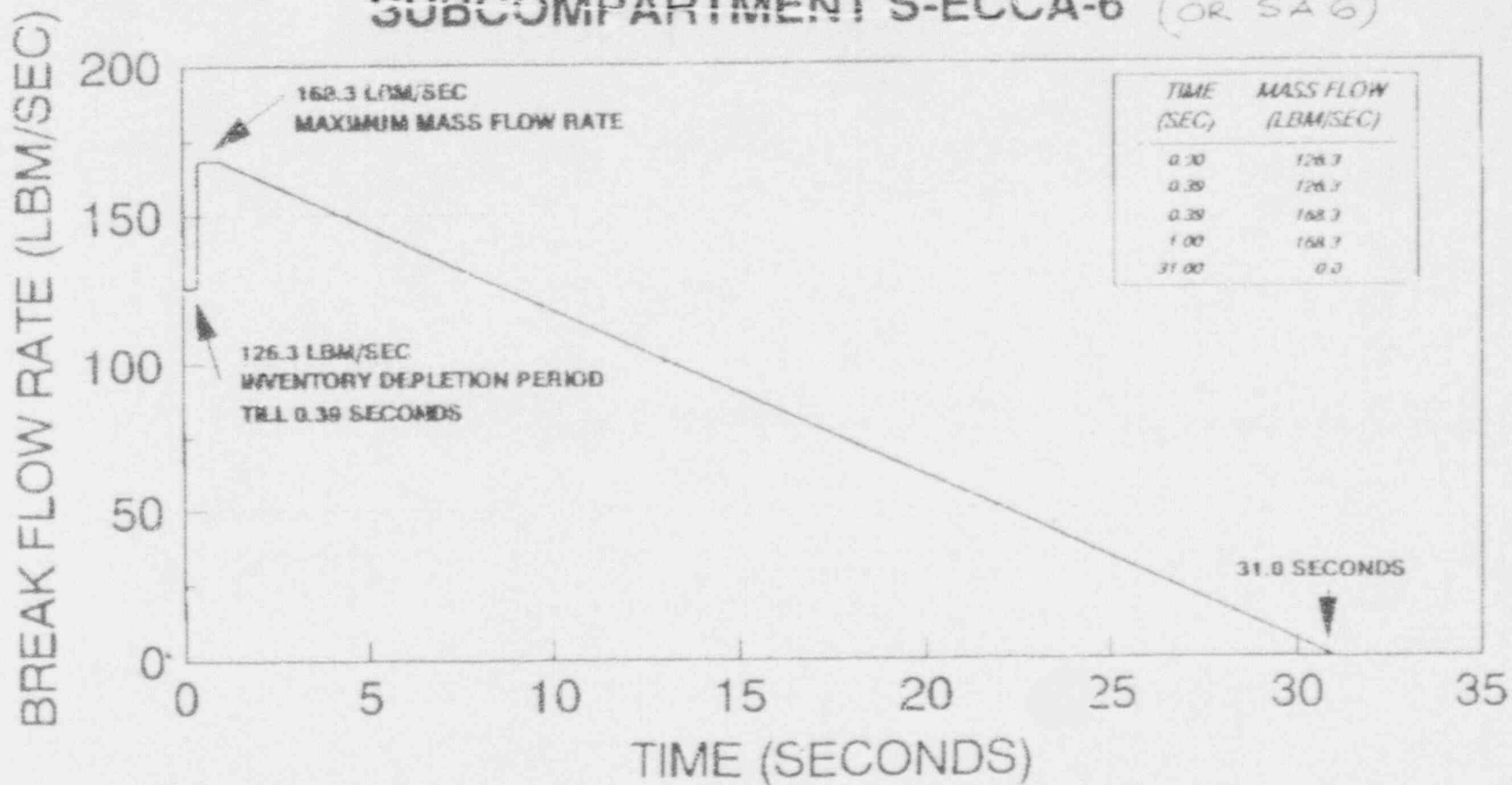
BREAK FLOW RATE VS. TIME

SUBCOMPARTMENT S-ECCA-5 (OR S45)



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FIGURE C-1E.
BREAK FLOW RATE VS. TIME
SUBCOMPARTMENT S-ECCA-6 (OR SA 6)



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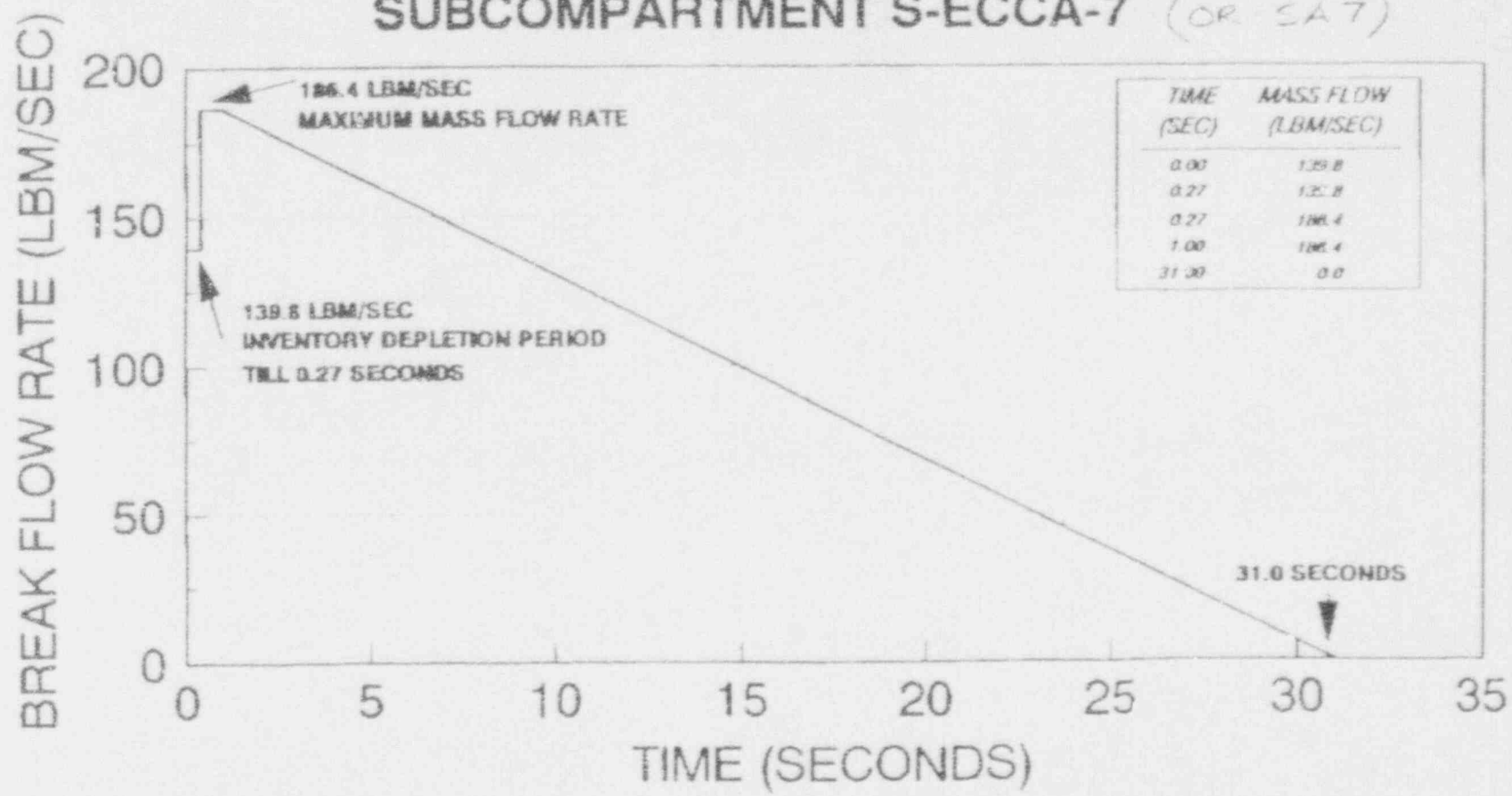
MAY 11 1962 11:21M S E (AUL) (P. 11)

P. 7. 20

FIGURE C-1F.

BREAK FLOW RATE VS. TIME

SUBCOMPARTMENT S-ECCA-7 (OR SAT)

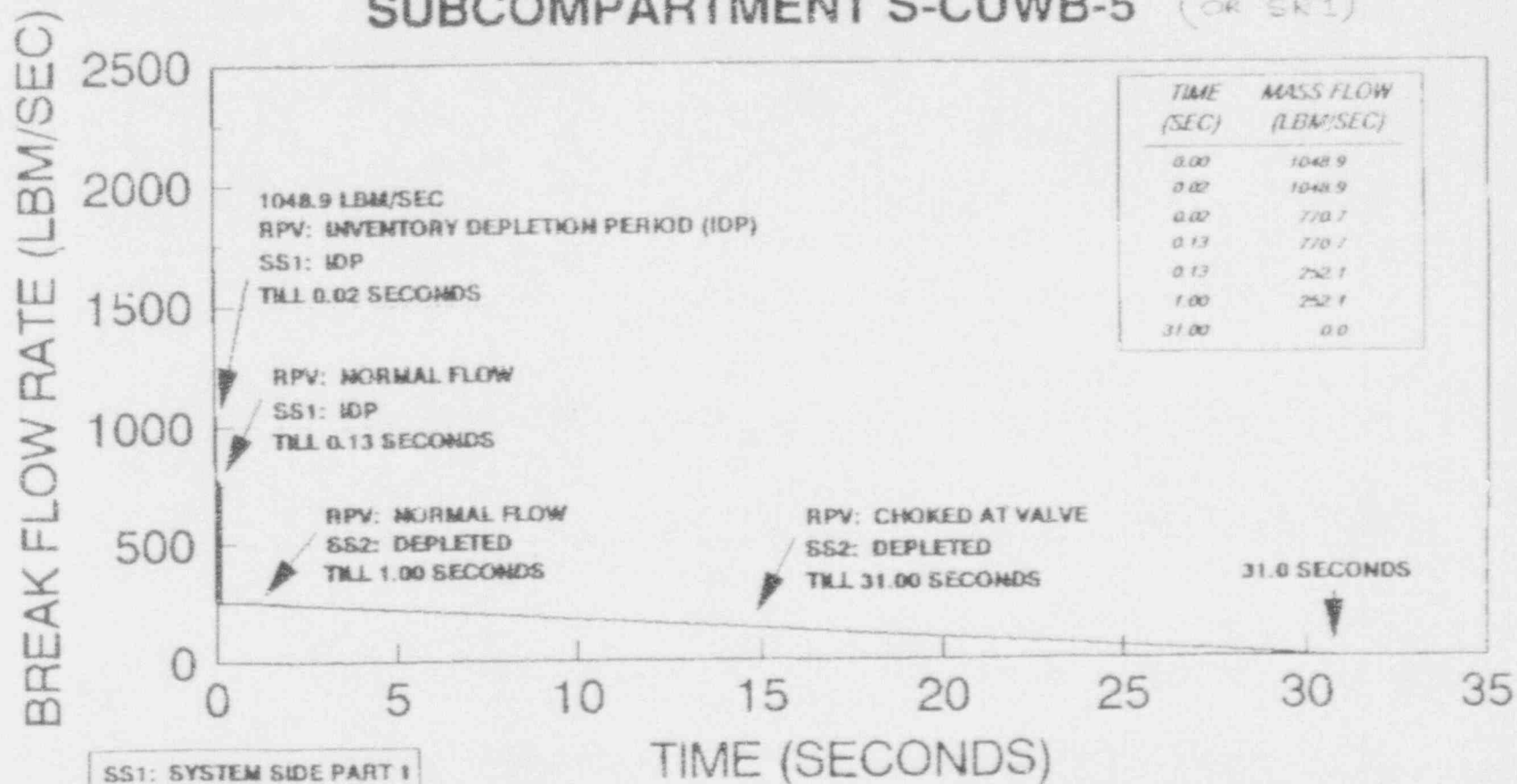


#6

FIGURE C-2L.

BREAK FLOW RATE VS. TIME

SUBCOMPARTMENT S-CUWB-5 (OR SK1)



SS1: SYSTEM SIDE PART 1
 SS2: SYSTEM SIDE PART 2
 RPV: RPV SIDE

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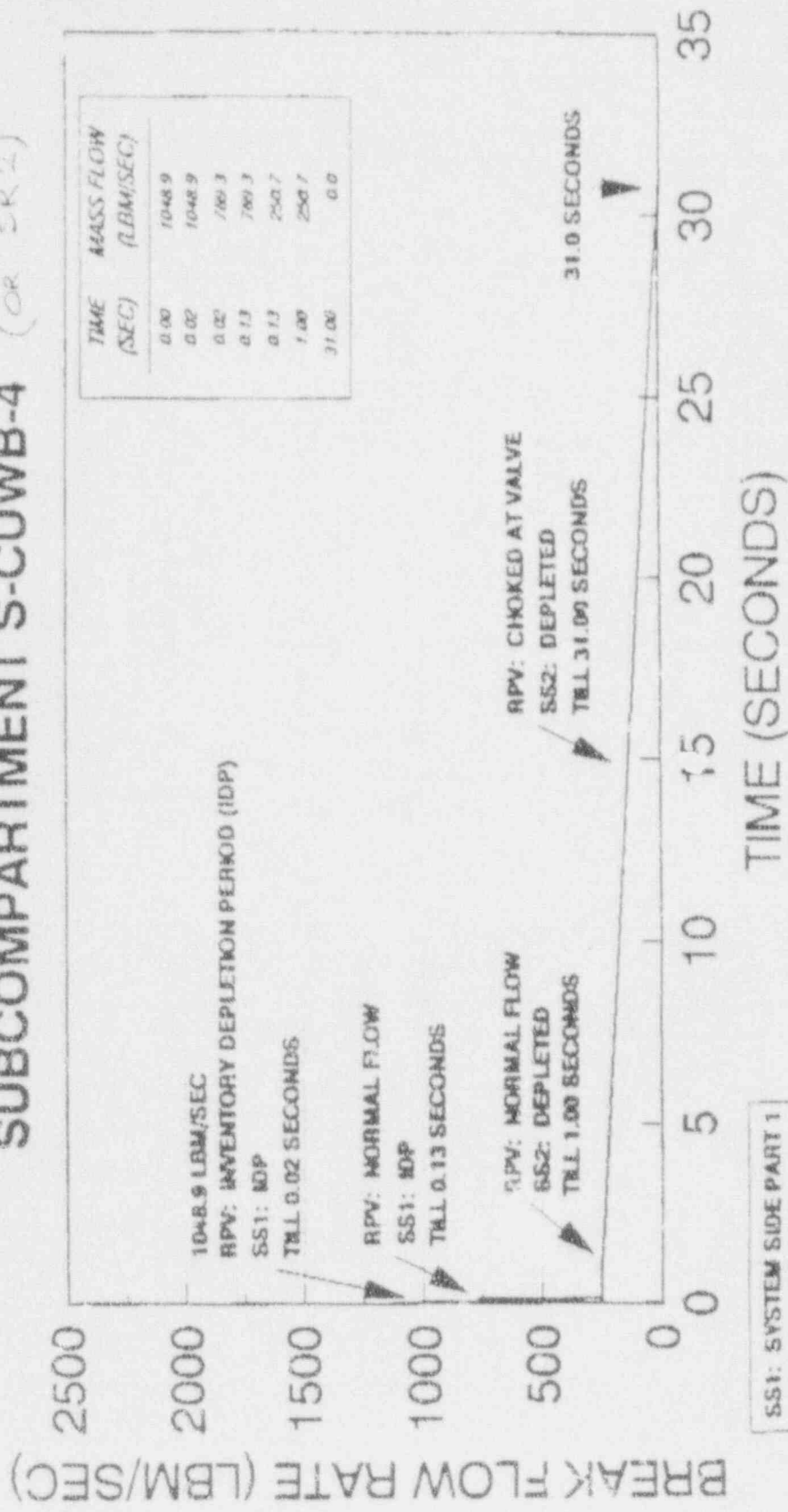
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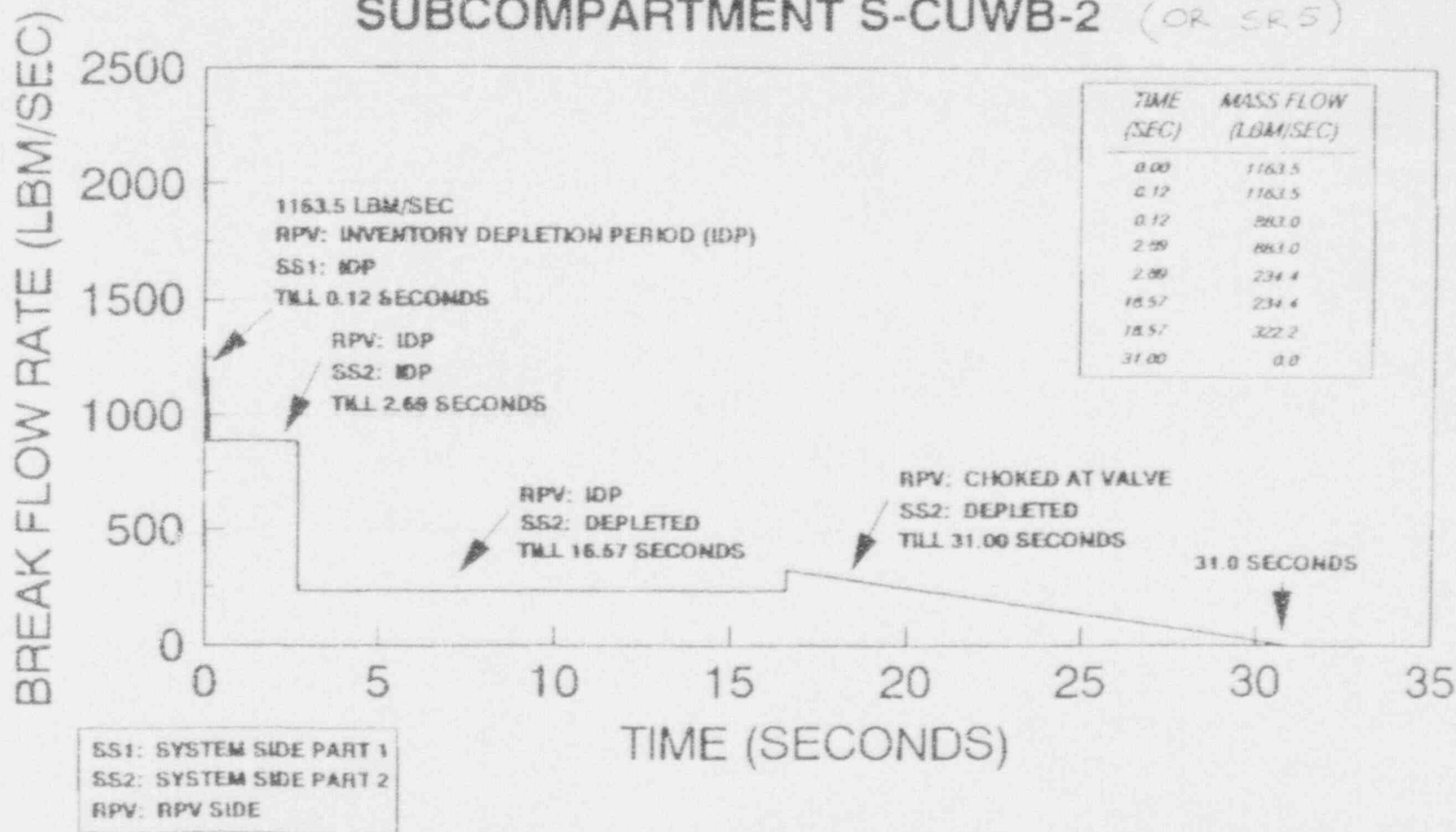
FIGURE C-2K.

BREAK FLOW RATE VS. TIME SUBCOMPARTMENT S-CUWB-4 (OR SR2)



SS1: SYSTEM SIDE PART 1
SS2: SYSTEM SIDE PART 2
RPV: RPV SIDE

FIGURE C-21.
BREAK FLOW RATE VS. TIME
SUBCOMPARTMENT S-CUWB-2 (OR SR5)



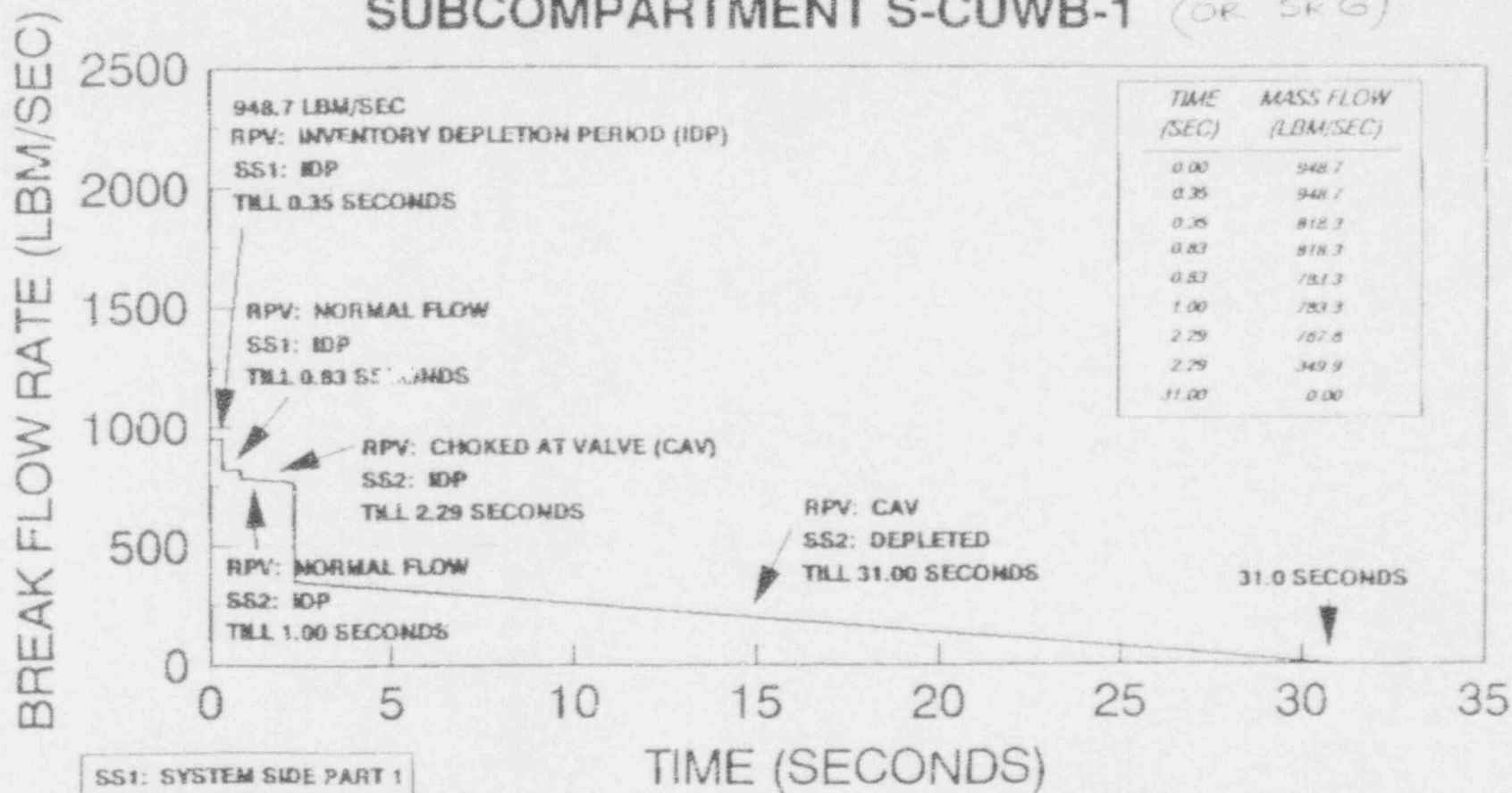
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FIGURE C-2H.

BREAK FLOW RATE VS. TIME

SUBCOMPARTMENT S-CUWB-1 (OR SKG)

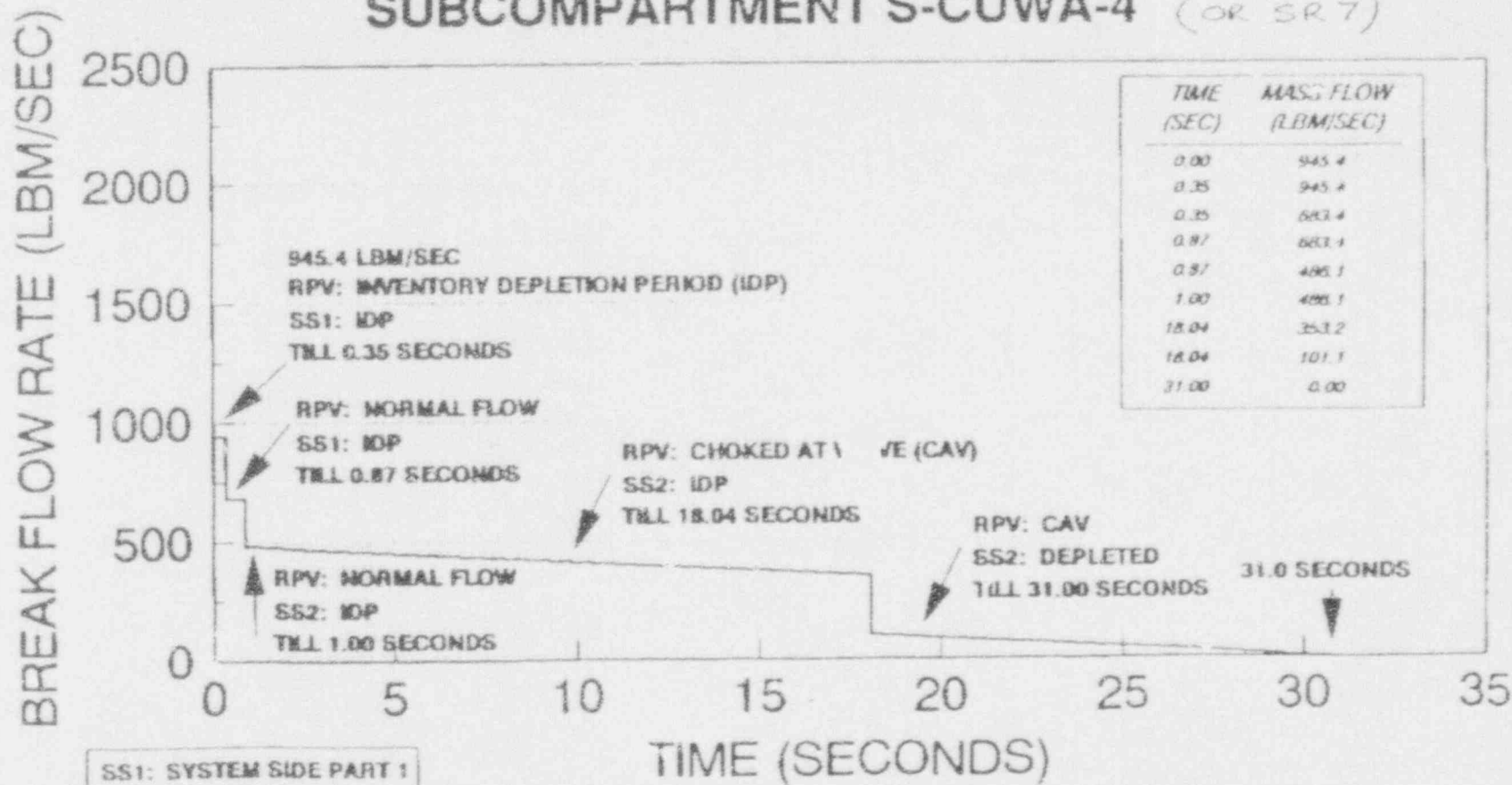


SS1: SYSTEM SIDE PART 1
 SS2: SYSTEM SIDE PART 2
 RPV: RPV SIDE

#10

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FIGURE C-2D.
BREAK FLOW RATE VS. TIME
SUBCOMPARTMENT S-CUWA-4 (OR SR7)

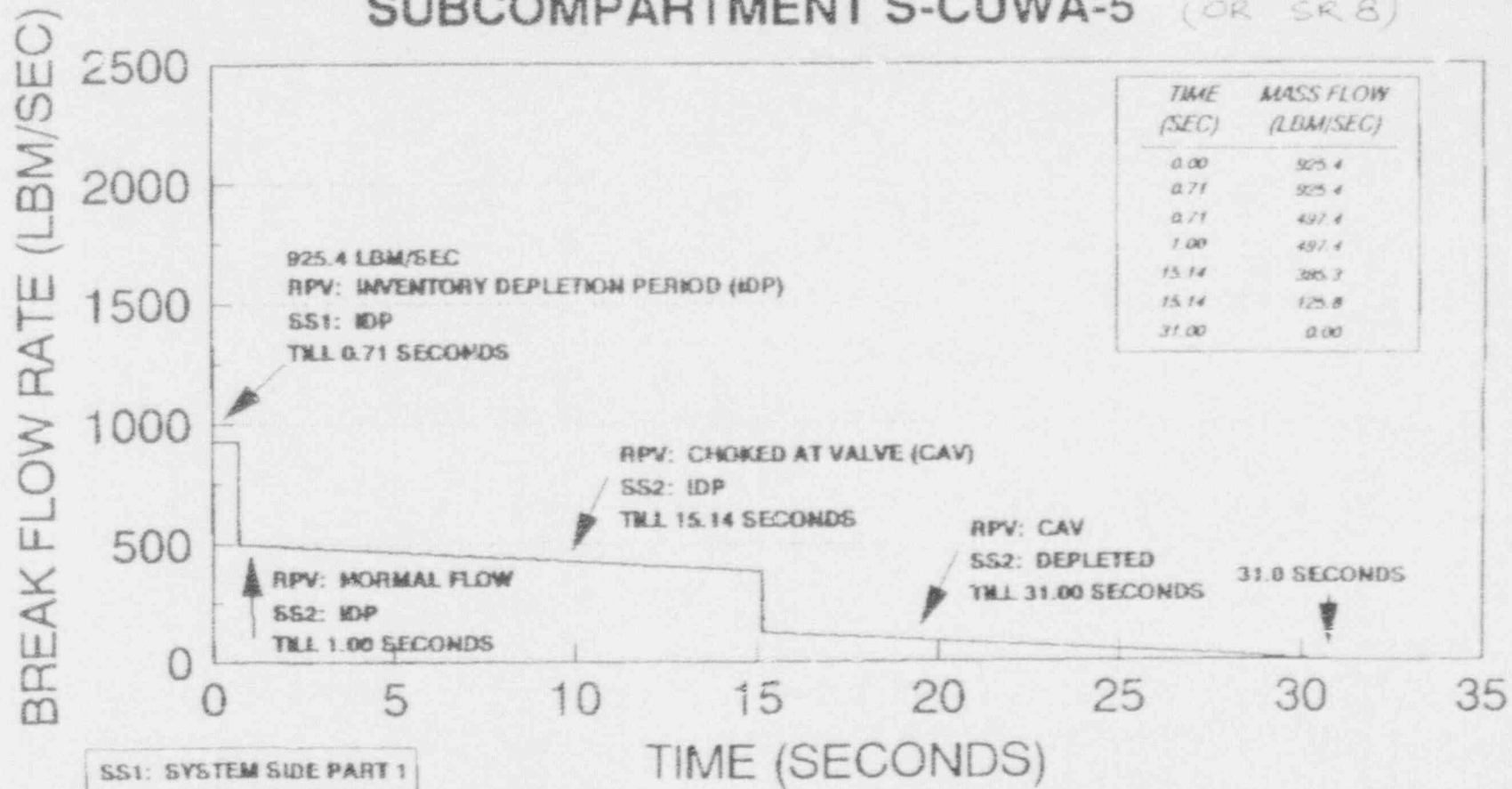


SS1: SYSTEM SIDE PART 1
 SS2: SYSTEM SIDE PART 2
 RPV: RPV SIDE

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FIGURE C-2E.
BREAK FLOW RATE VS. TIME
SUBCOMPARTMENT S-CUWA-5 (OR SR8)



SS1: SYSTEM SIDE PART 1
 SS2: SYSTEM SIDE PART 2
 RPV: RPV SIDE

#12

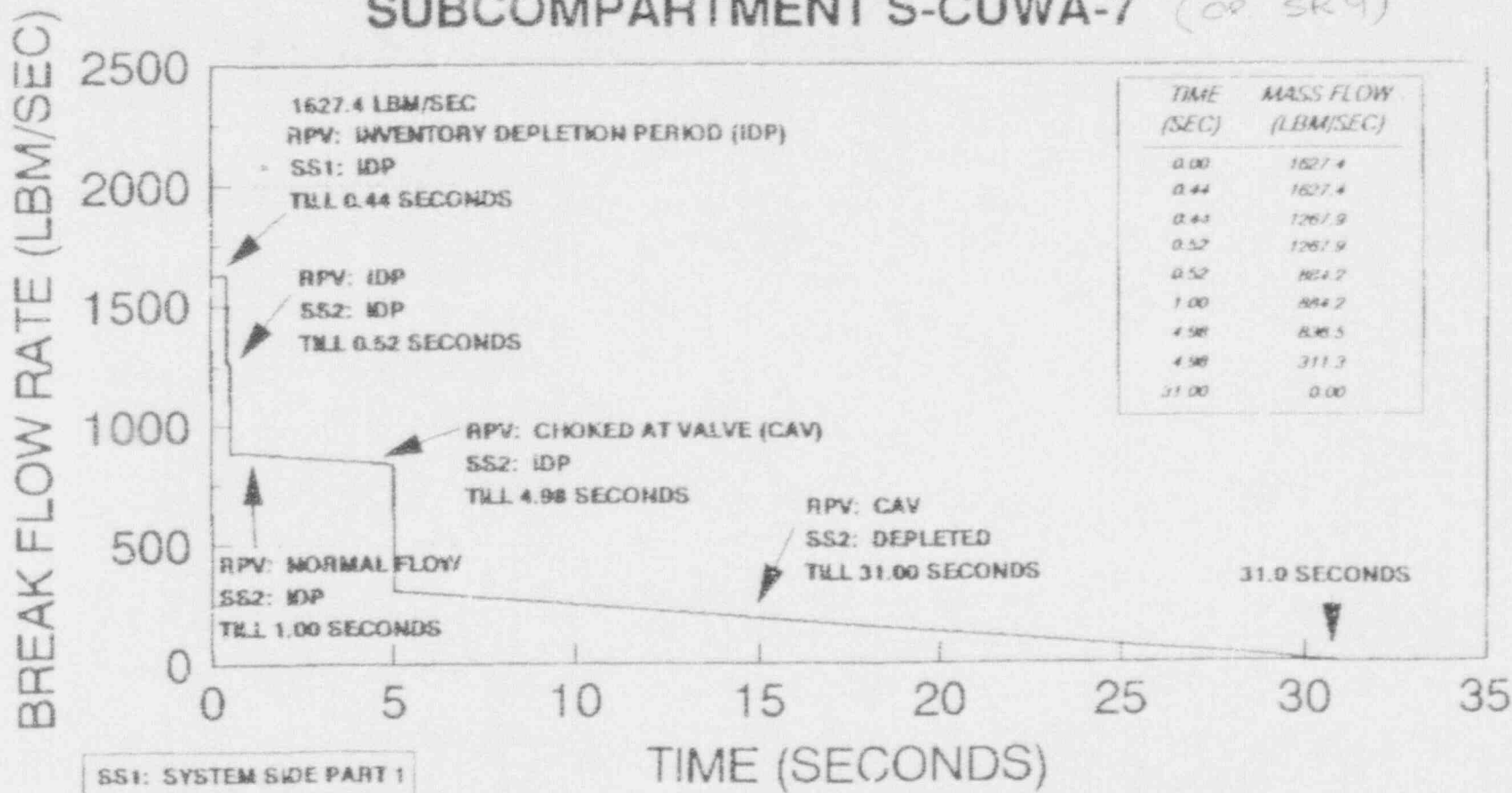
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F 14 20

NOV 11 1962 11:20AM G E HOOLEY/EP BLDG 1

1987 11 19 11:24 AM 9 E:\D\LEAF\B161

FIGURE C-2G. BREAK FLOW RATE VS. TIME SUBCOMPARTMENT S-CUWA-7 (00 SR 9)

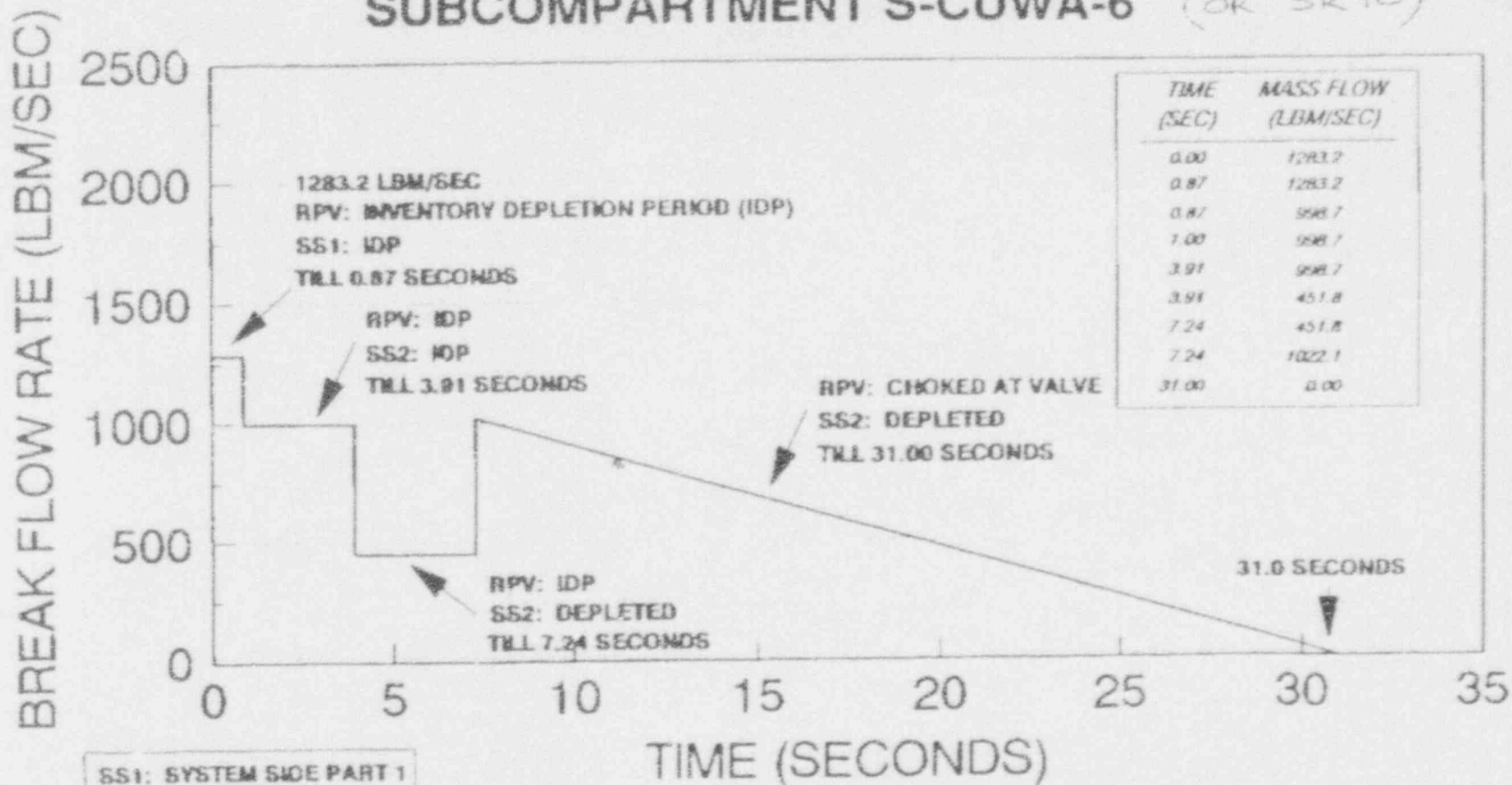


SS1: SYSTEM SIDE PART 1
 SS2: SYSTEM SIDE PART 2
 RPV: RPV SIDE

4
3

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FIGURE C-2F.
BREAK FLOW RATE VS. TIME
SUBCOMPARTMENT S-CUWA-6 (OR SR10)



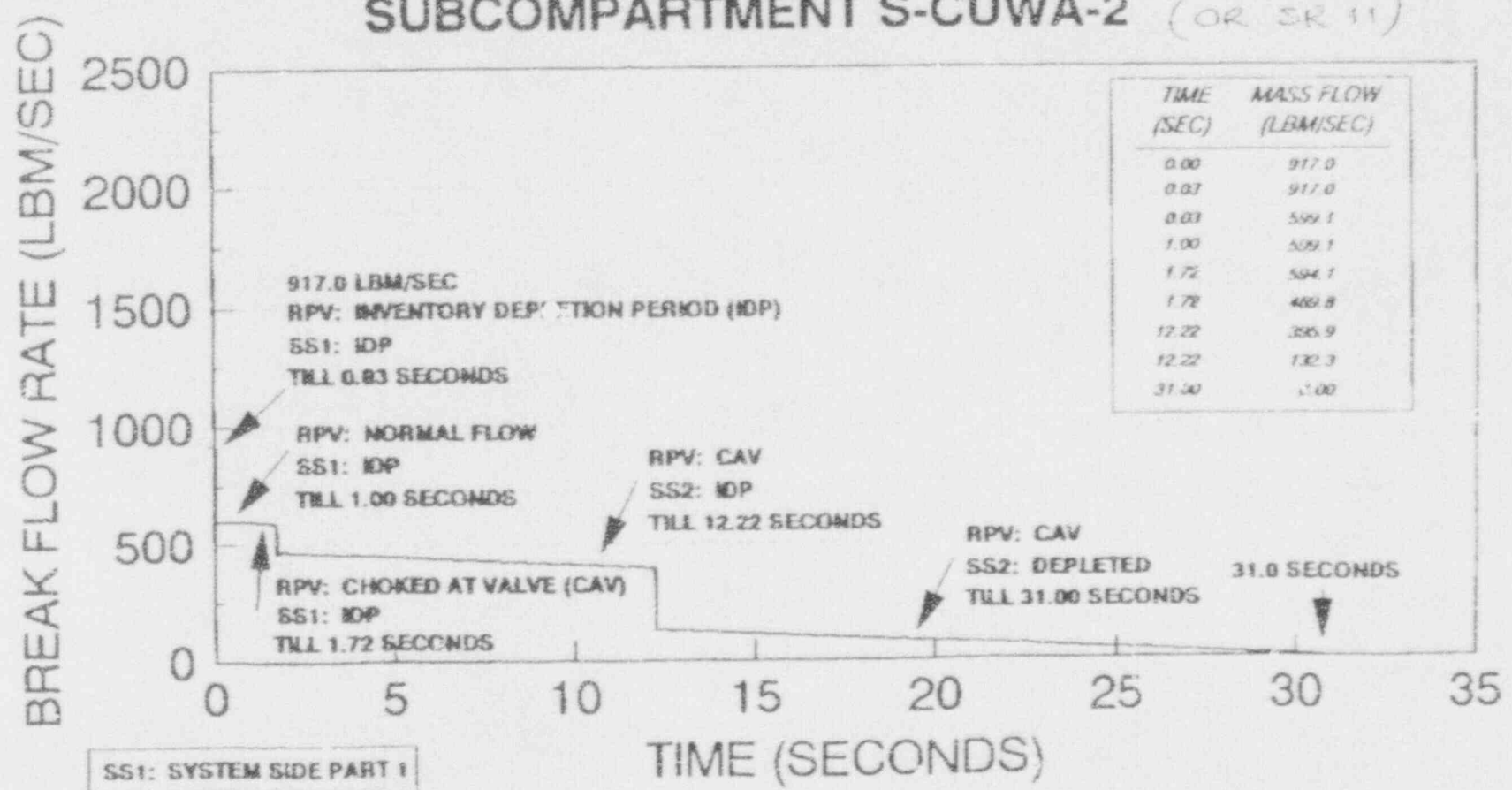
SS1: SYSTEM SIDE PART 1
 SS2: SYSTEM SIDE PART 2
 RPV: RPV SIDE

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FIGURE C-2B.

BREAK FLOW RATE VS. TIME

SUBCOMPARTMENT S-CUWA-2 (OR SR 11)



SS1: SYSTEM SIDE PART 1
 SS2: SYSTEM SIDE PART 2
 RPV: RPV SIDE

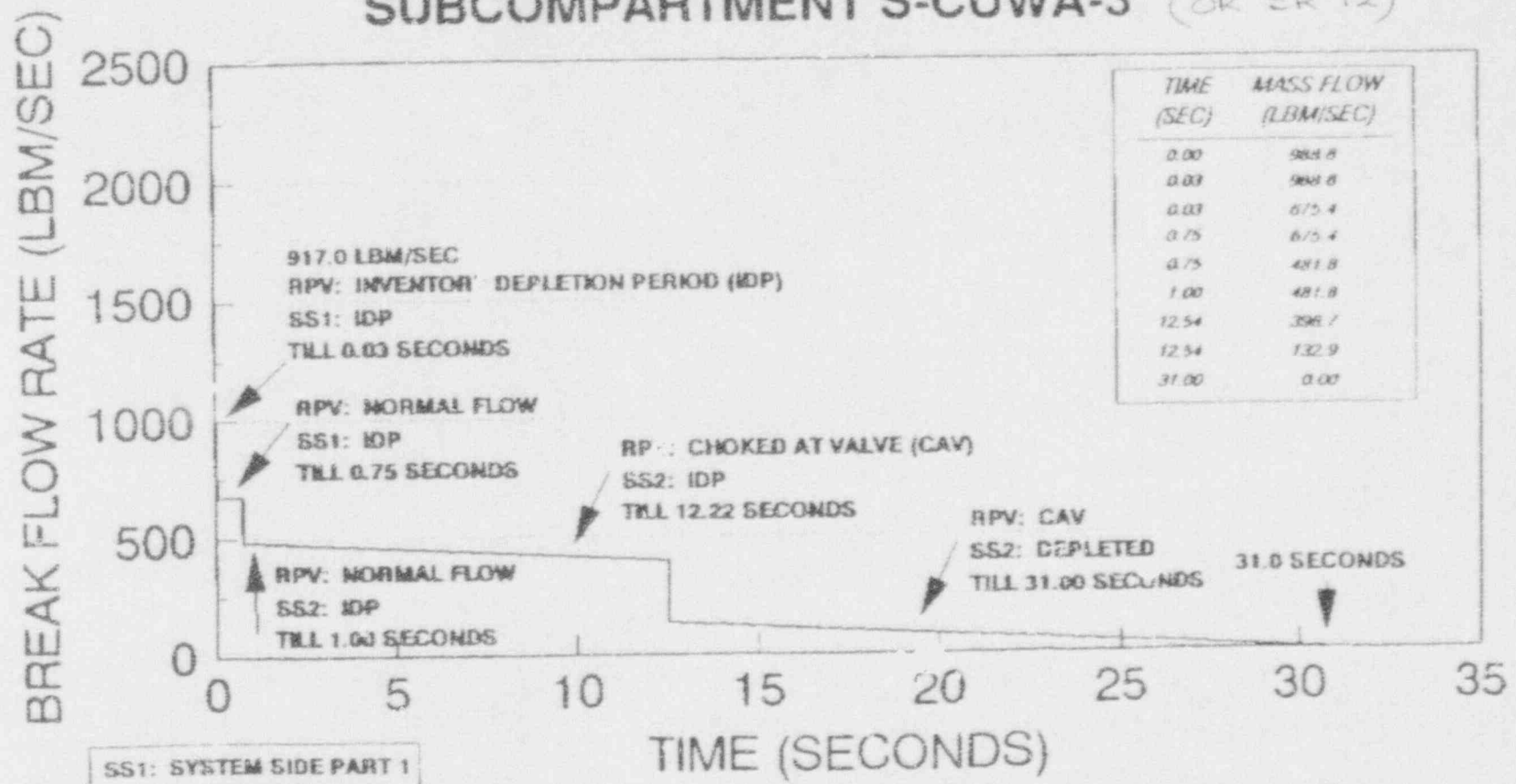
15

APR 11 92 11:25AM 6 E INCL 44P BLDG 7

FIGURE C-2C.

BREAK FLOW RATE VS. TIME

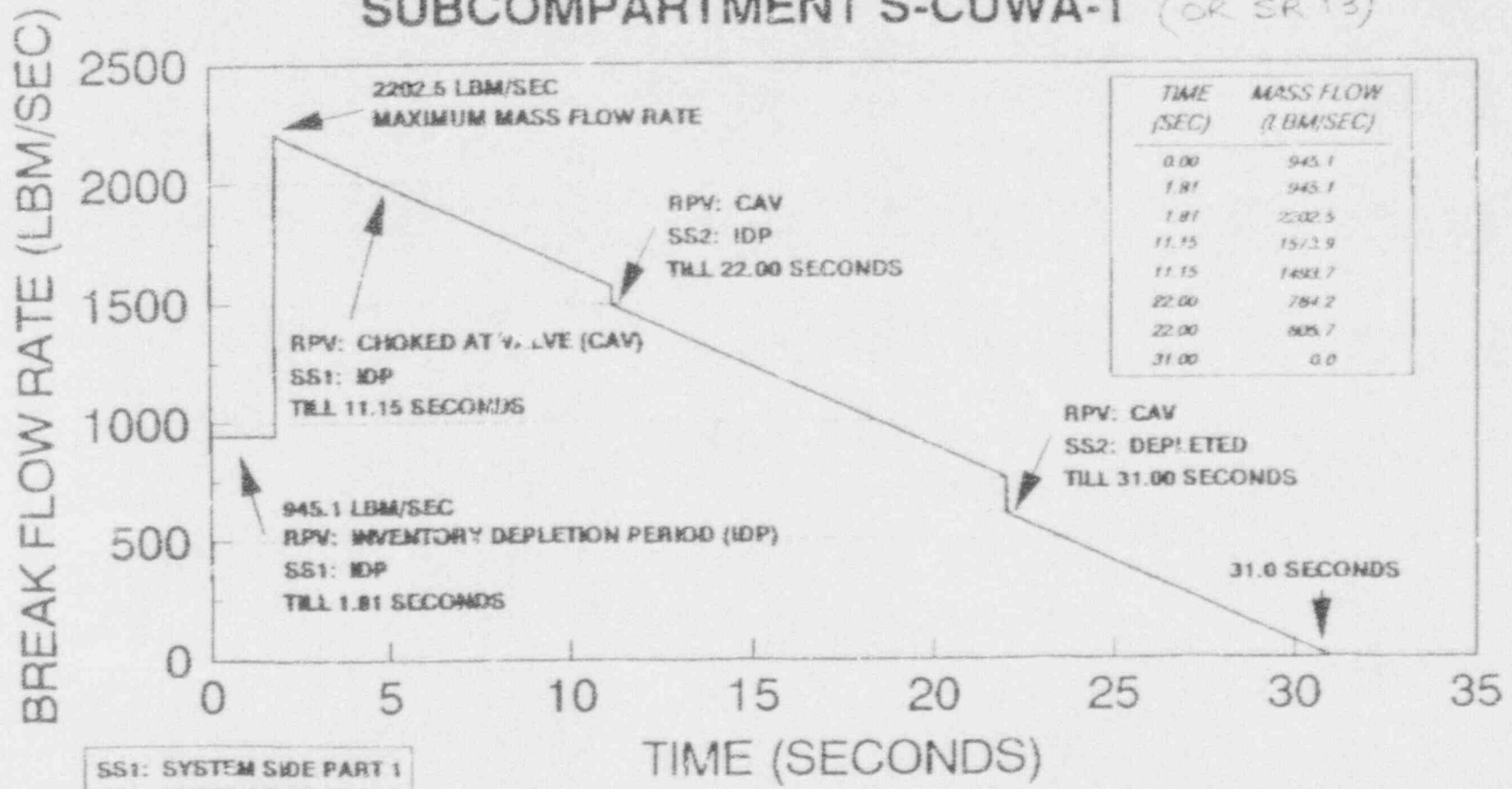
SUBCOMPARTMENT S-CUWA-3 (OR ER 12)



SS1: SYSTEM SIDE PART 1
 SS2: SYSTEM SIDE PART 2
 RPV: RPV MODE

16

FIGURE C-2A.
BREAK FLOW RATE VS. TIME
SUBCOMPARTMENT S-CUWA-1 (OR SR 13)



SS1: SYSTEM SIDE PART 1
 SS2: SYSTEM SIDE PART 2
 RPV: RPV SIDE

#17

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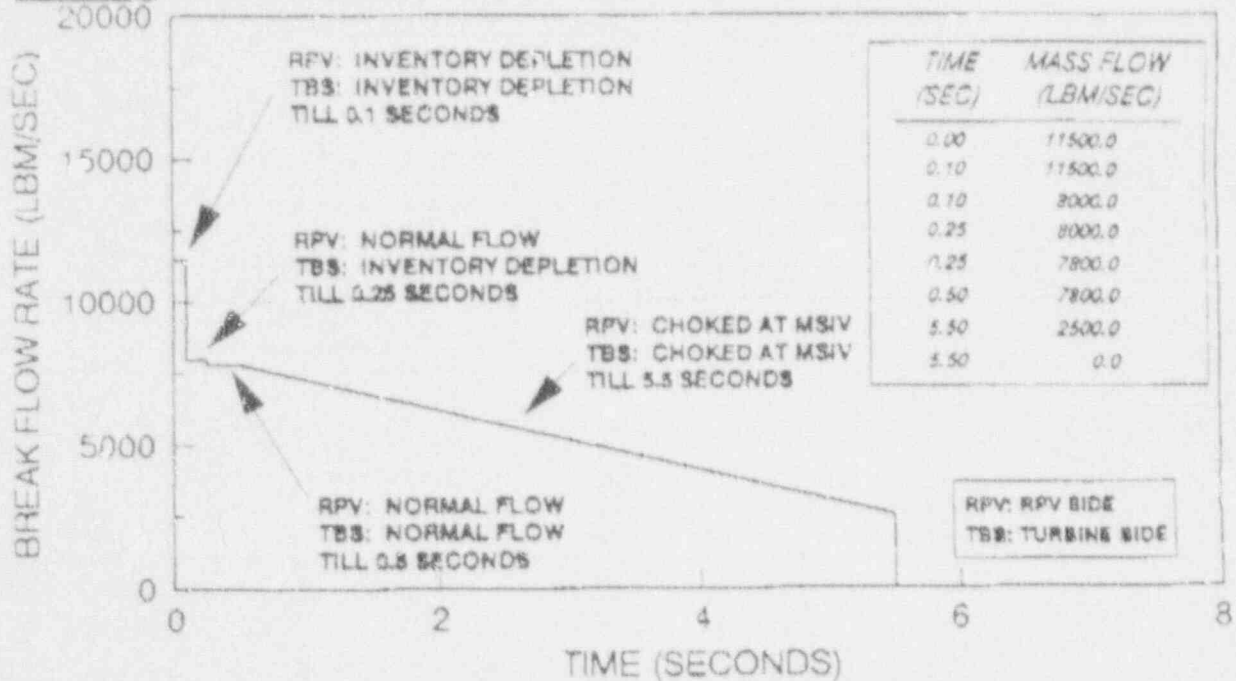
11-11-50 11:25AM 6 C 100LEAP BLDG 7

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FIGURE C-3A. BREAK FLOW RATE VS. TIME

(SS 1) STEAM TUNNEL: MAIN STEAM LINE BREAK



ENTHALPY VS. TIME

STEAM TUNNEL: MAIN STEAM LINE BREAK - TYPE 1

