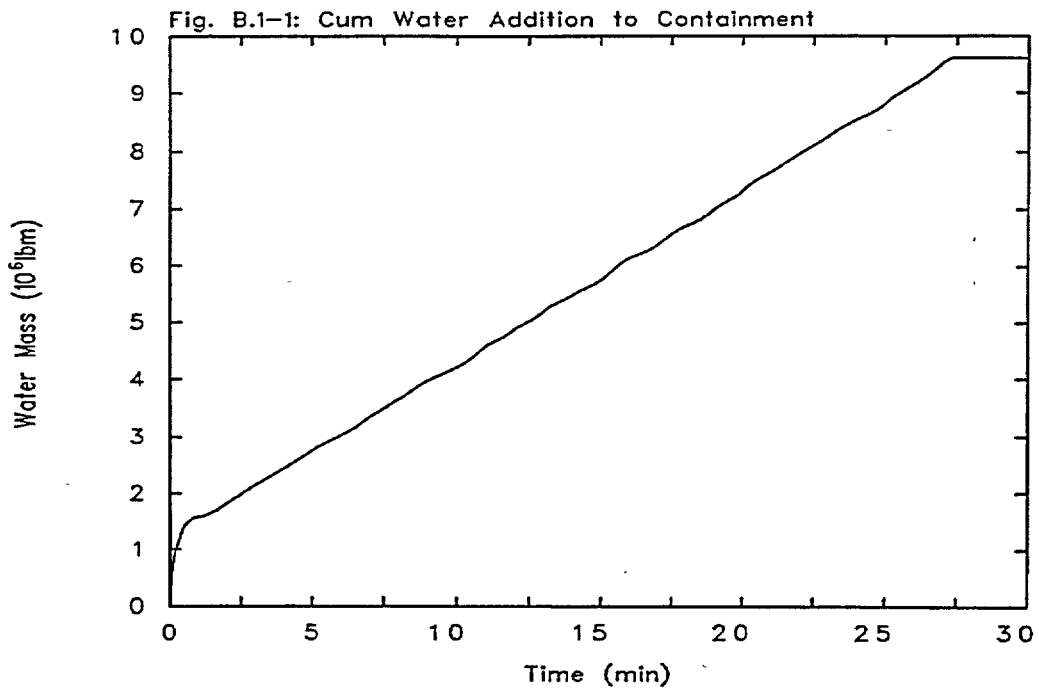


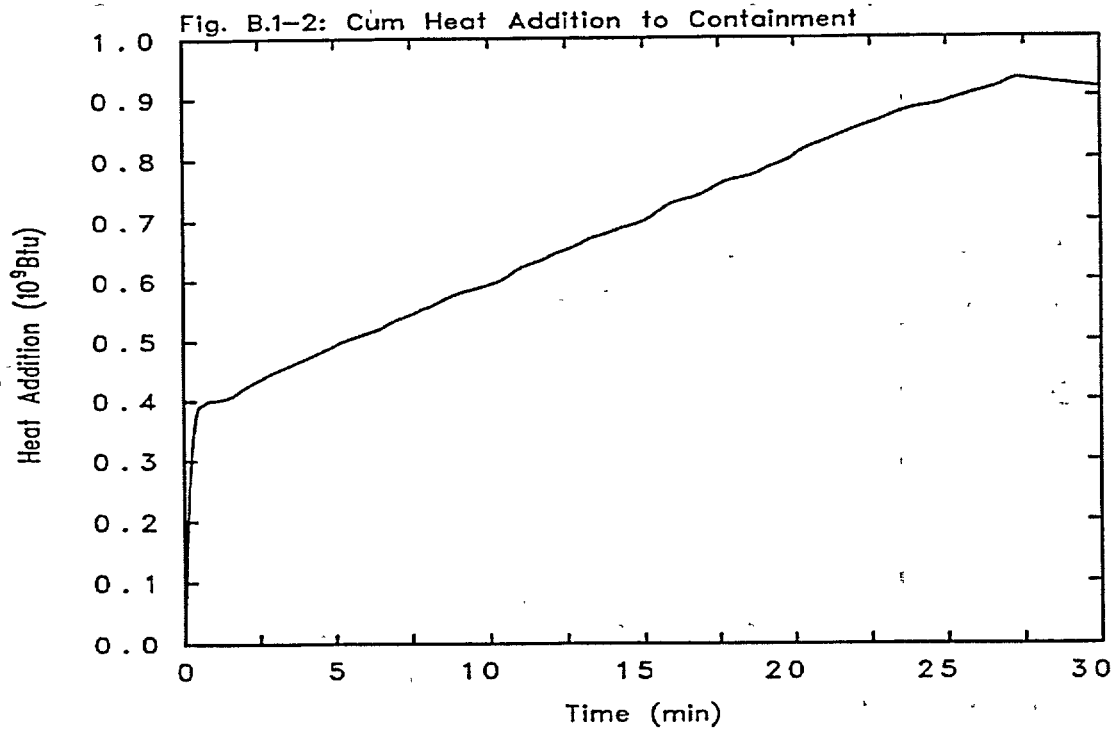
APPENDIX B

MELCOR PREDICTIONS OF LARGE DRY CONTAINMENT RESPONSE

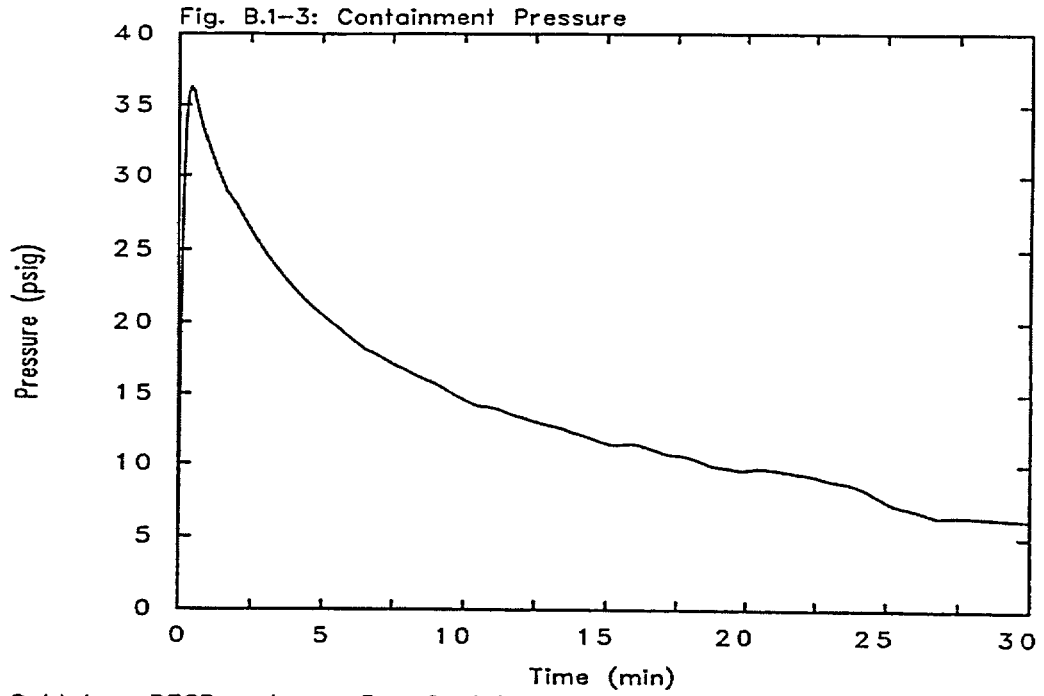
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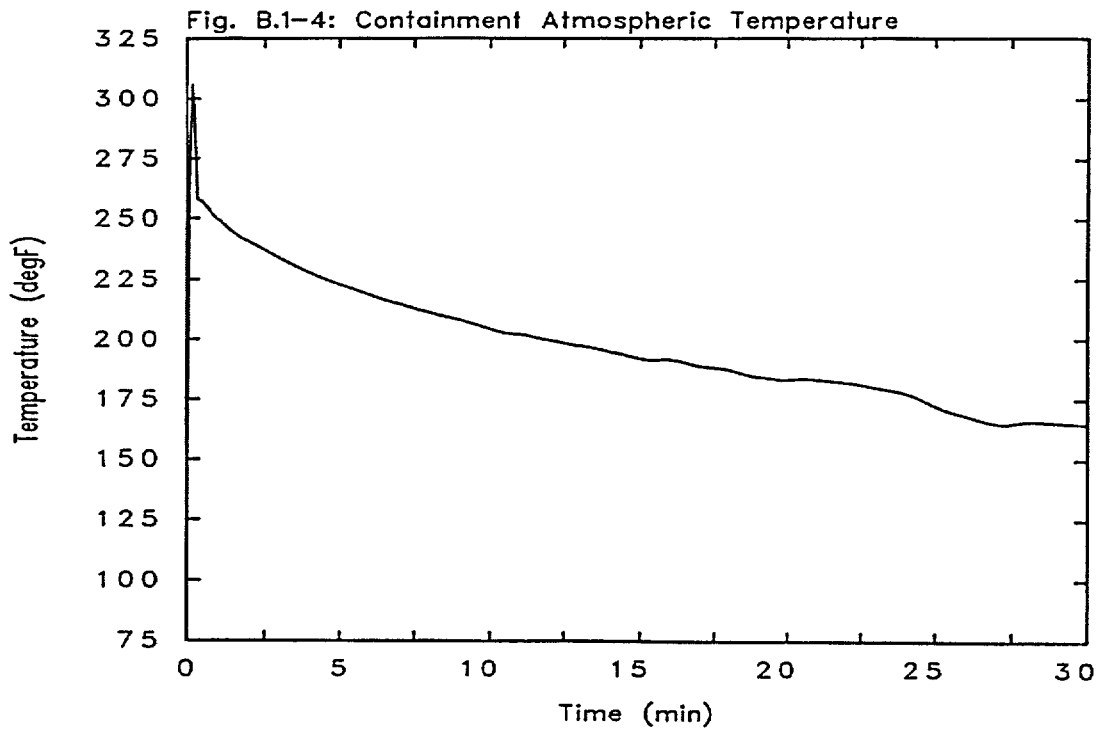
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 HLJMFIDNM 08/12/99 12:59:51 MELCOR
 CFVALU.538



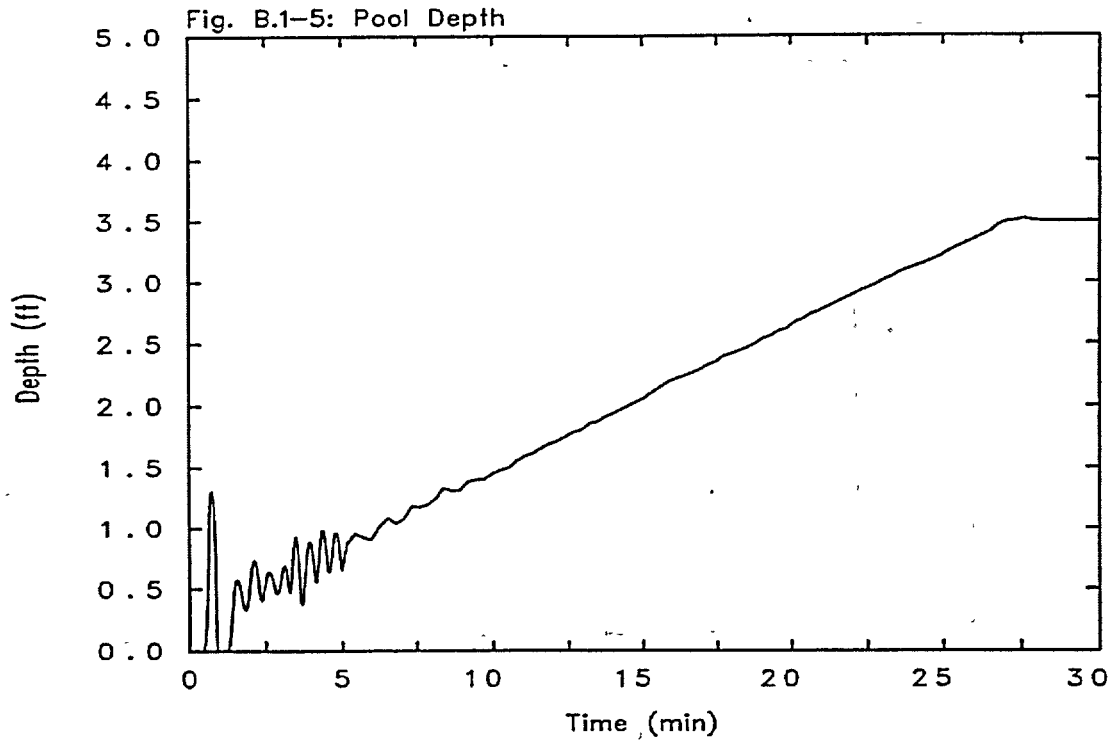
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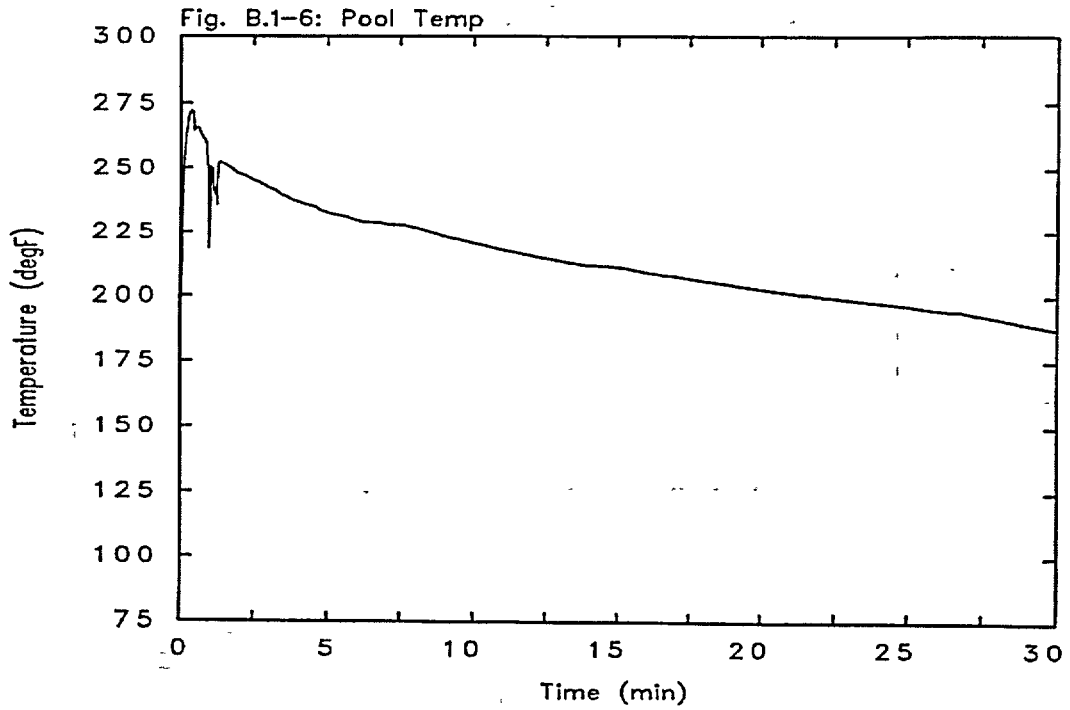
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 CVH-P.012



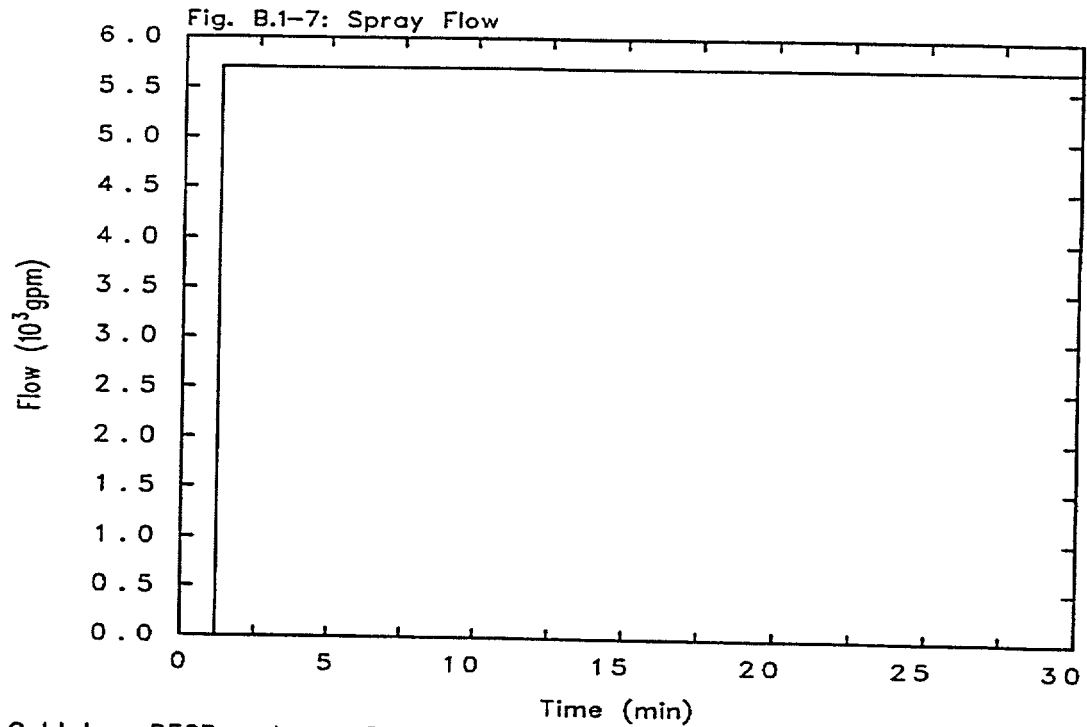
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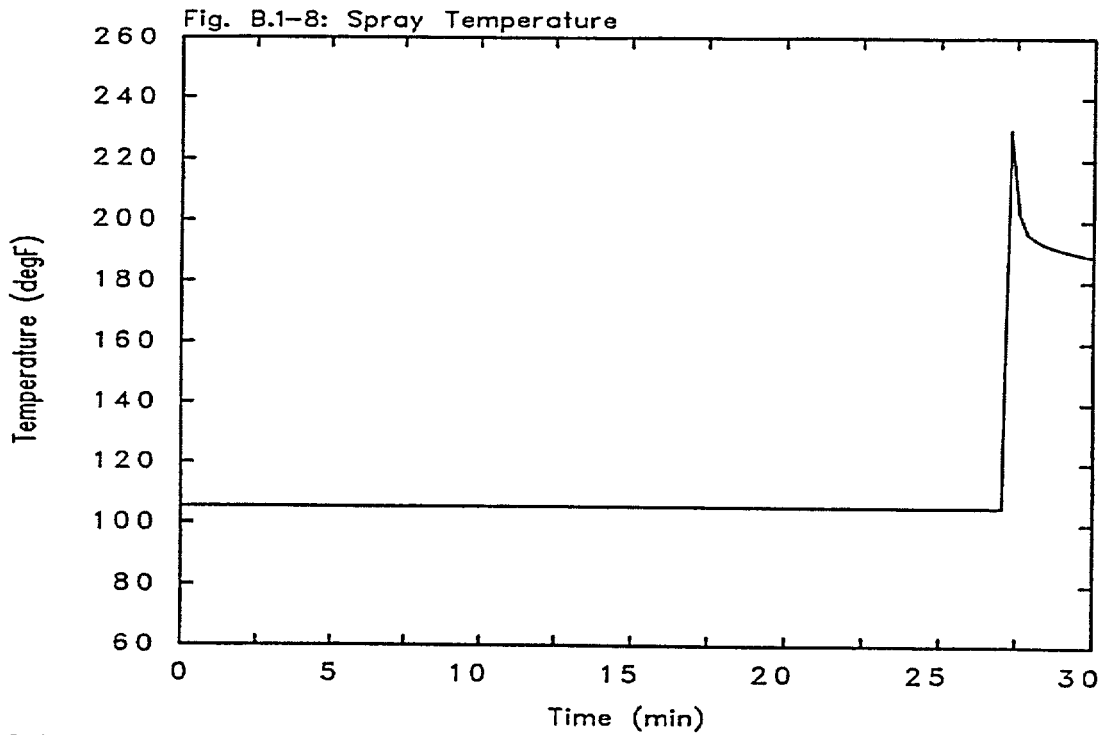
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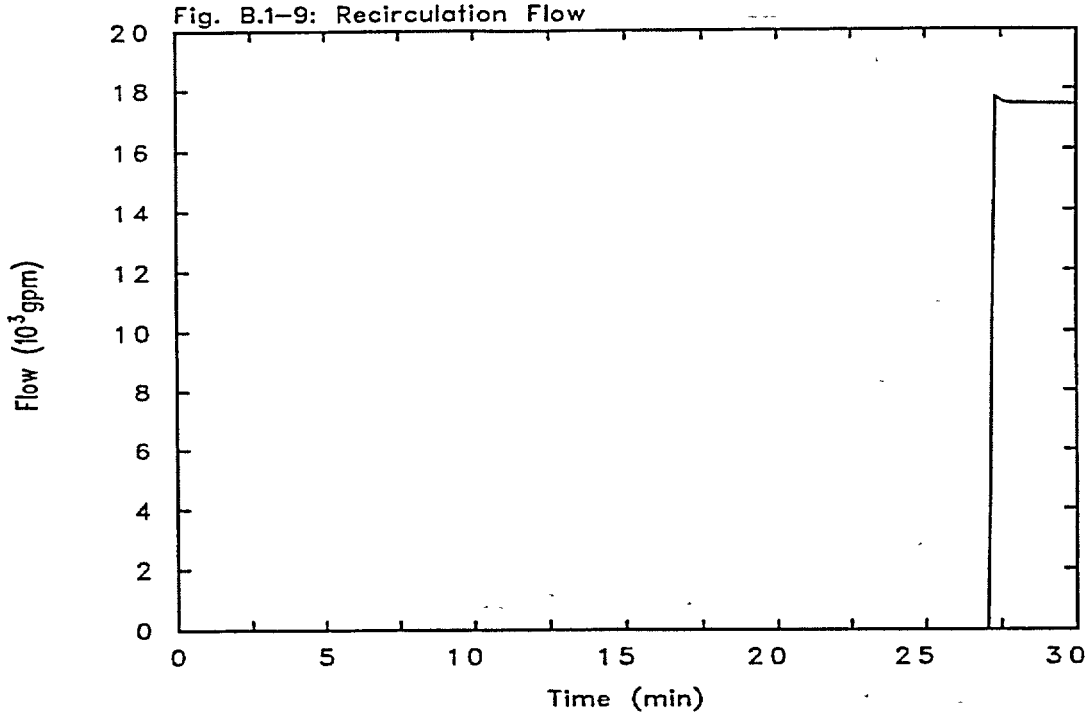
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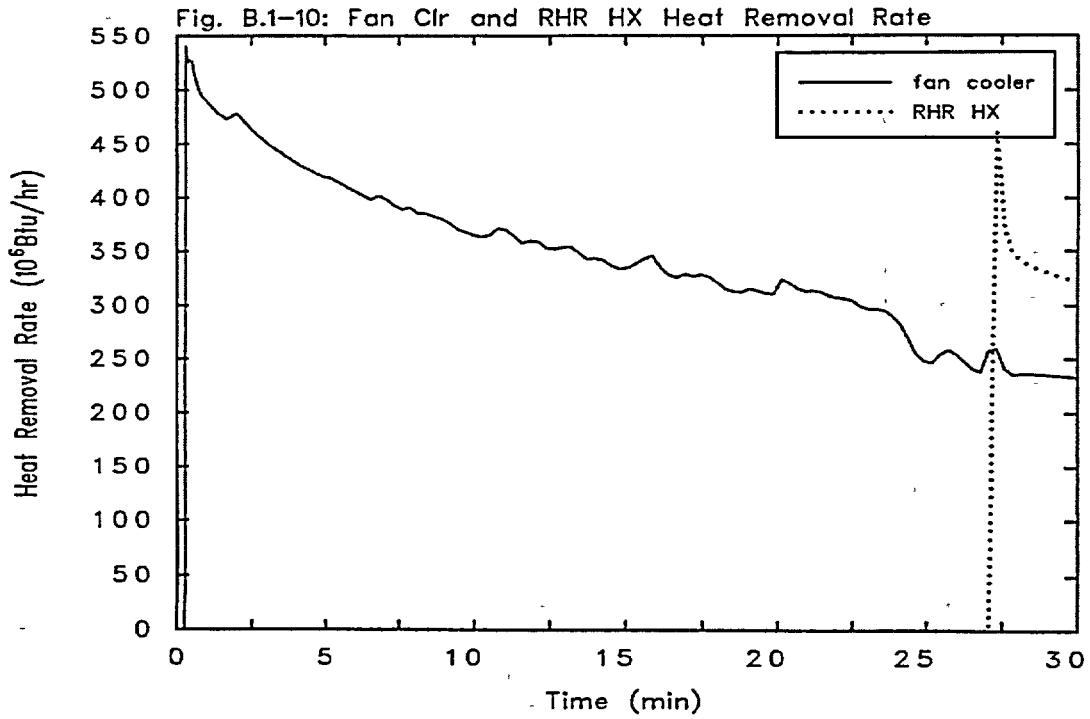
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 SPR-FL.1



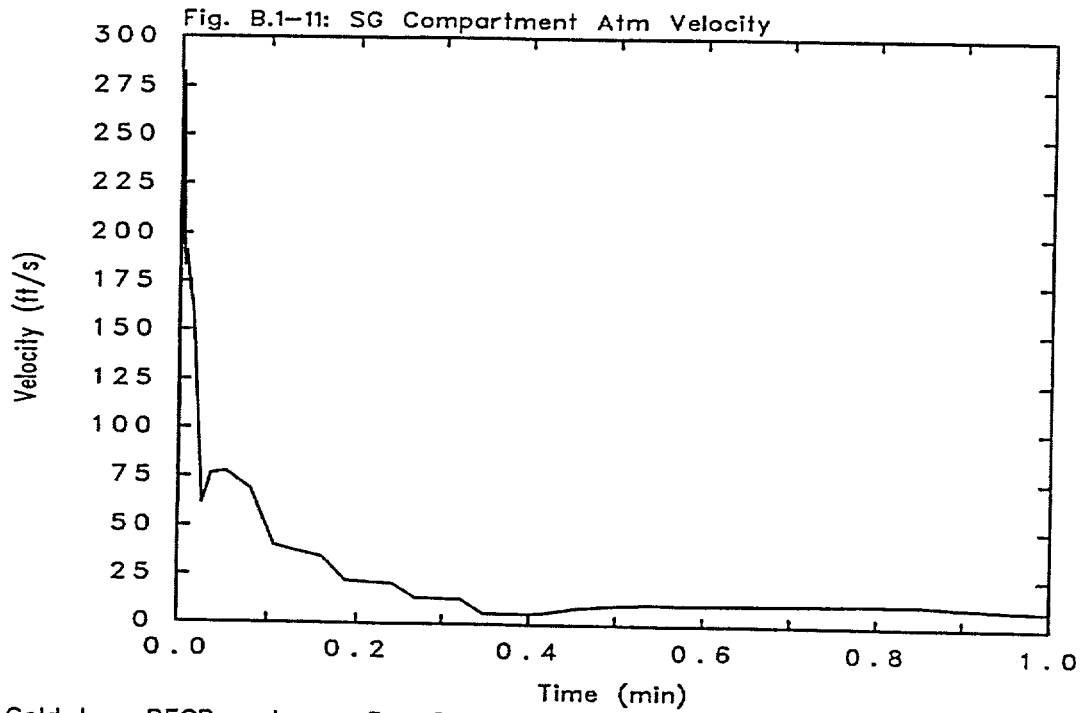
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 CFVALU.404



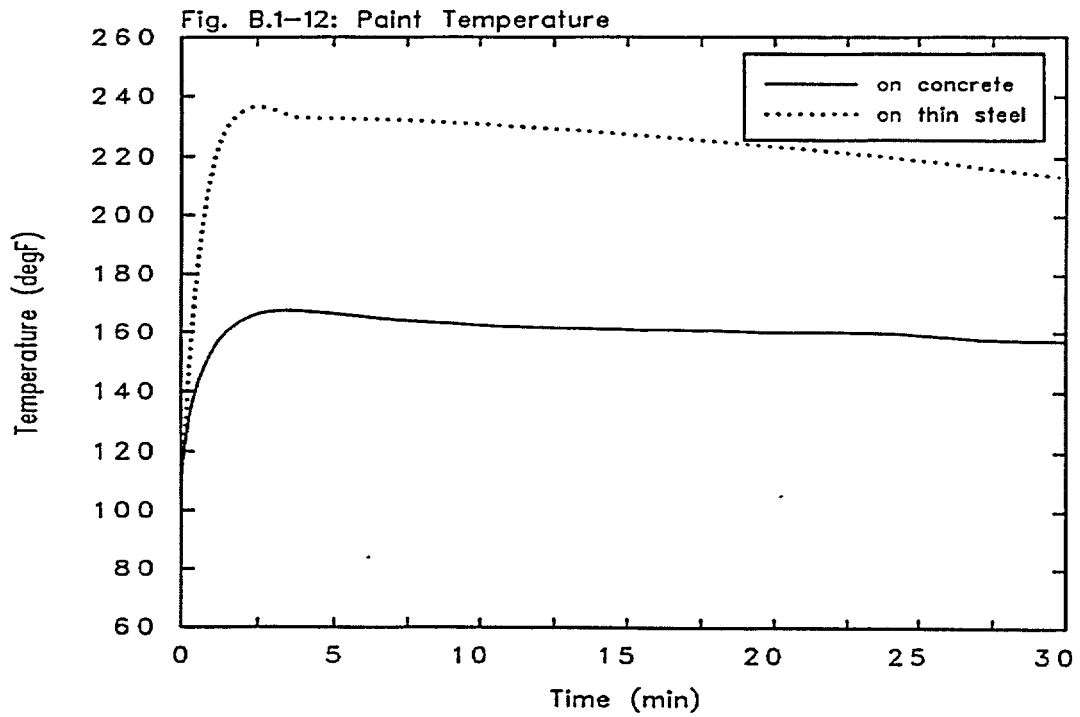
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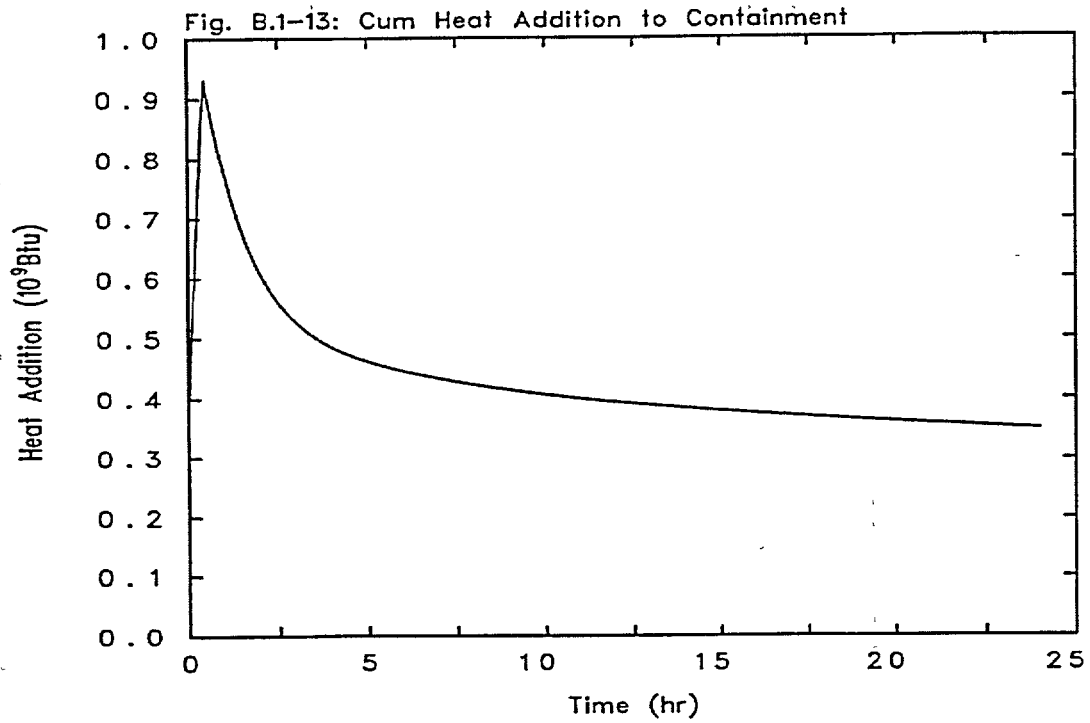
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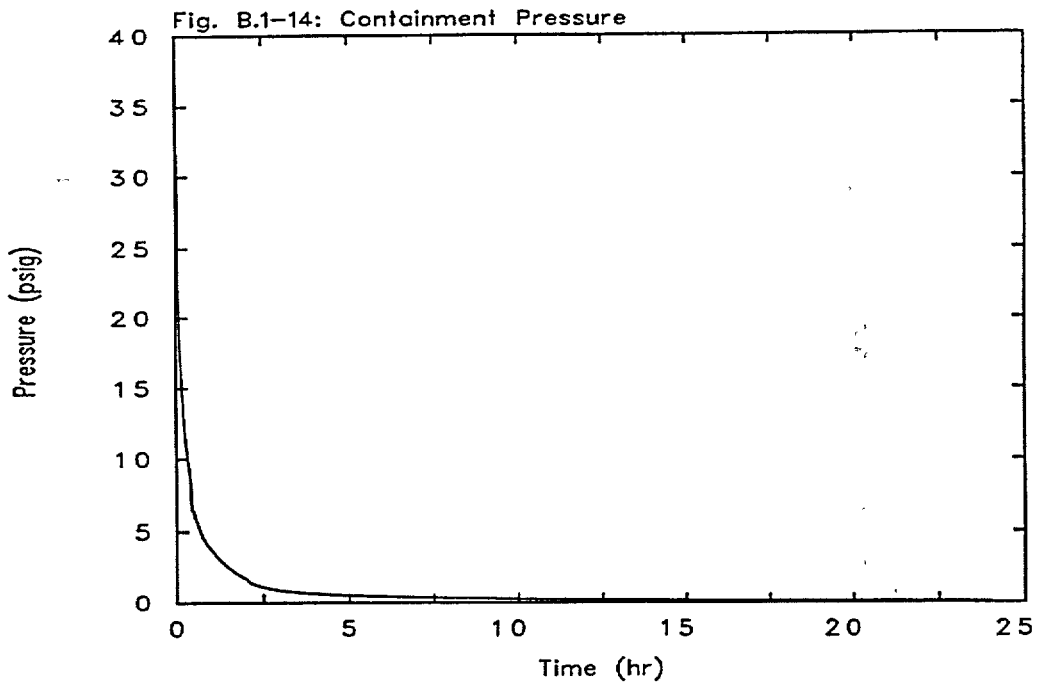
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 CVH-VELVAPCV.002



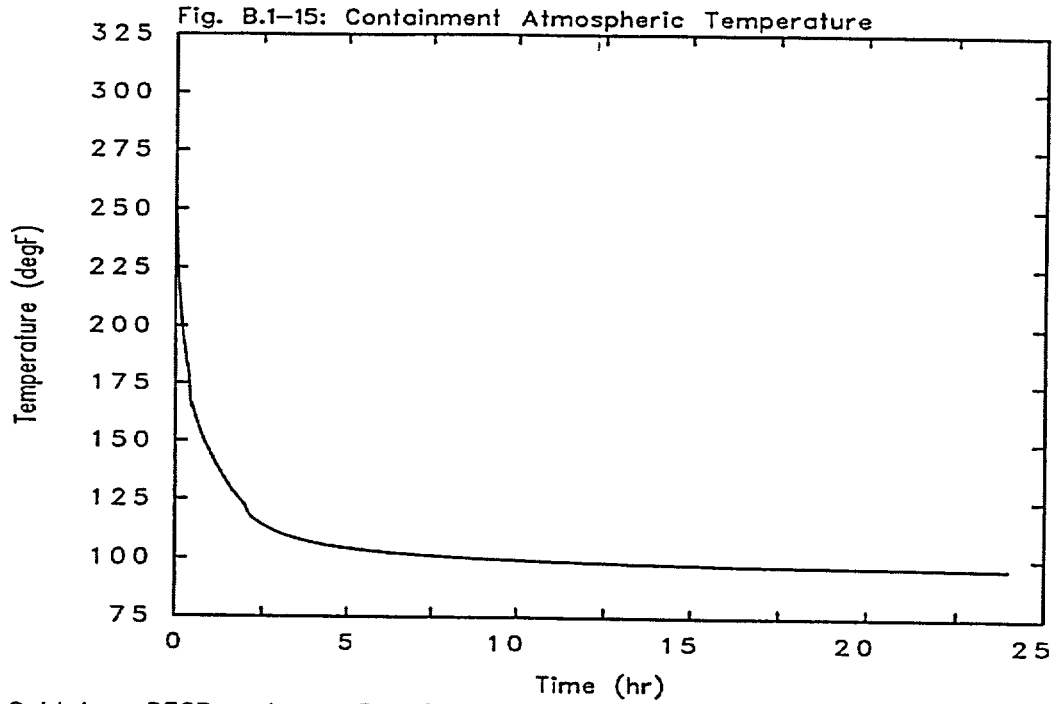
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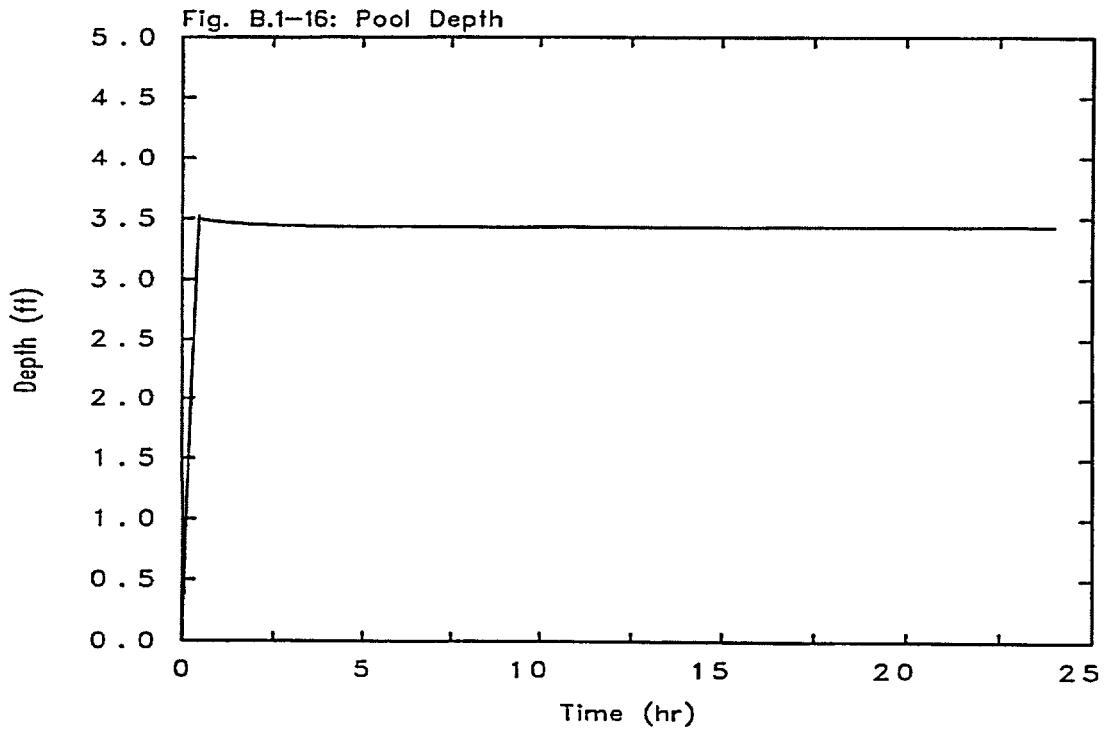
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 HLJMFIDNM 08/12/99 12:59:51 MELCOR
 CFVALU.546



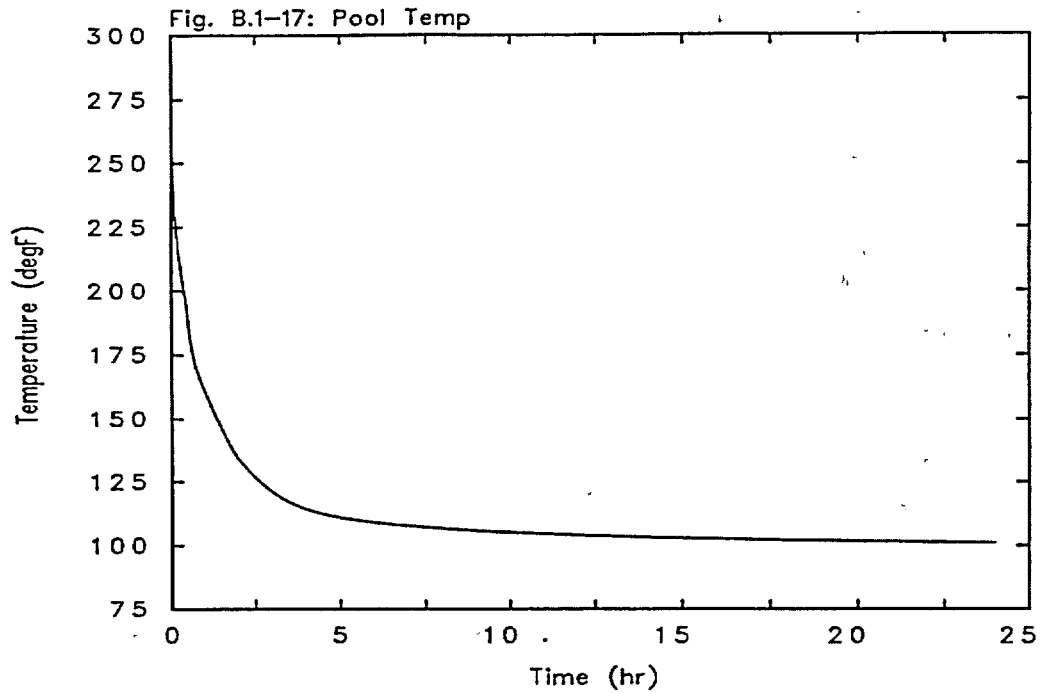
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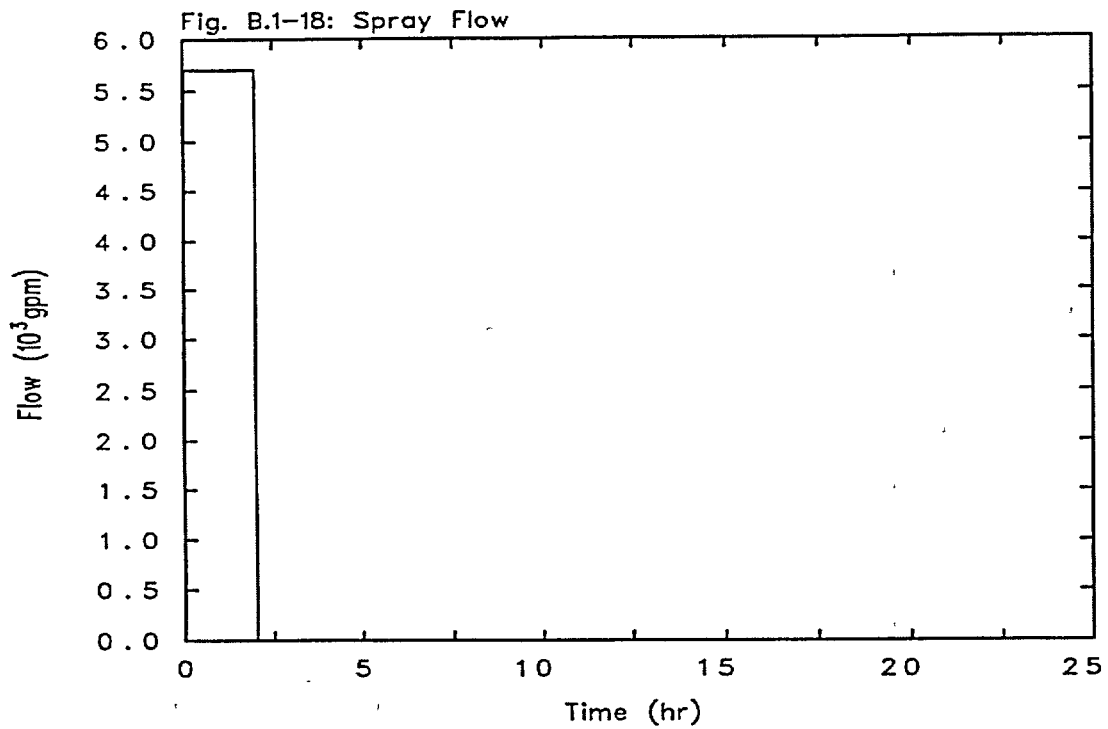
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 CVH-TVAP.012



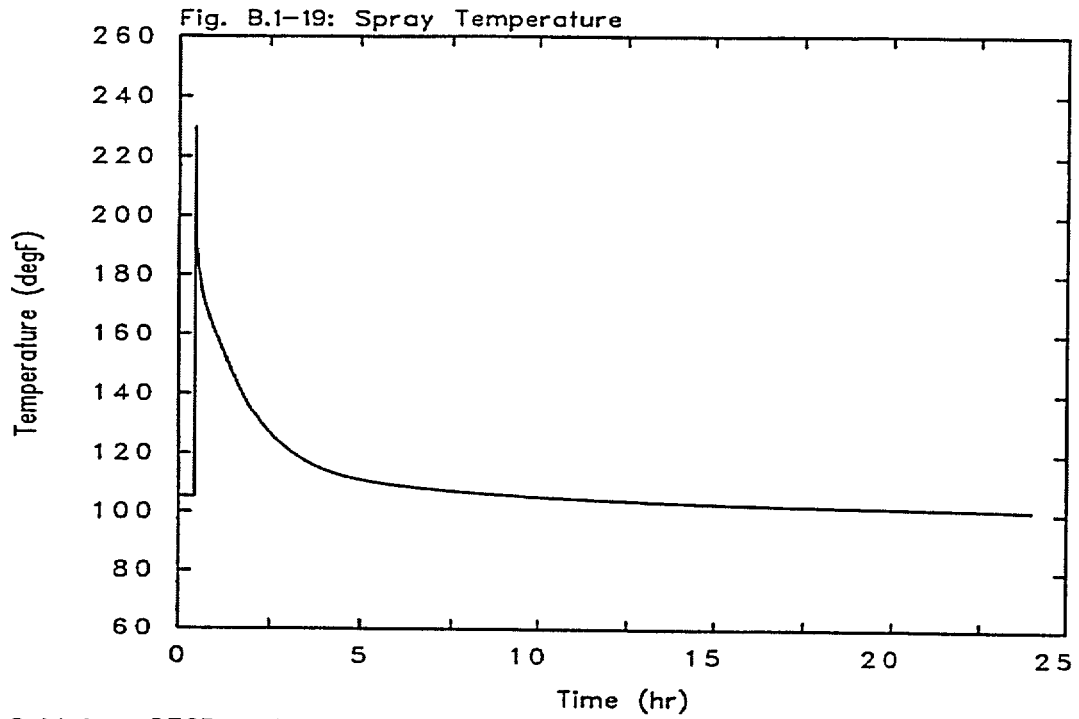
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 CVH-LIQLEV.011



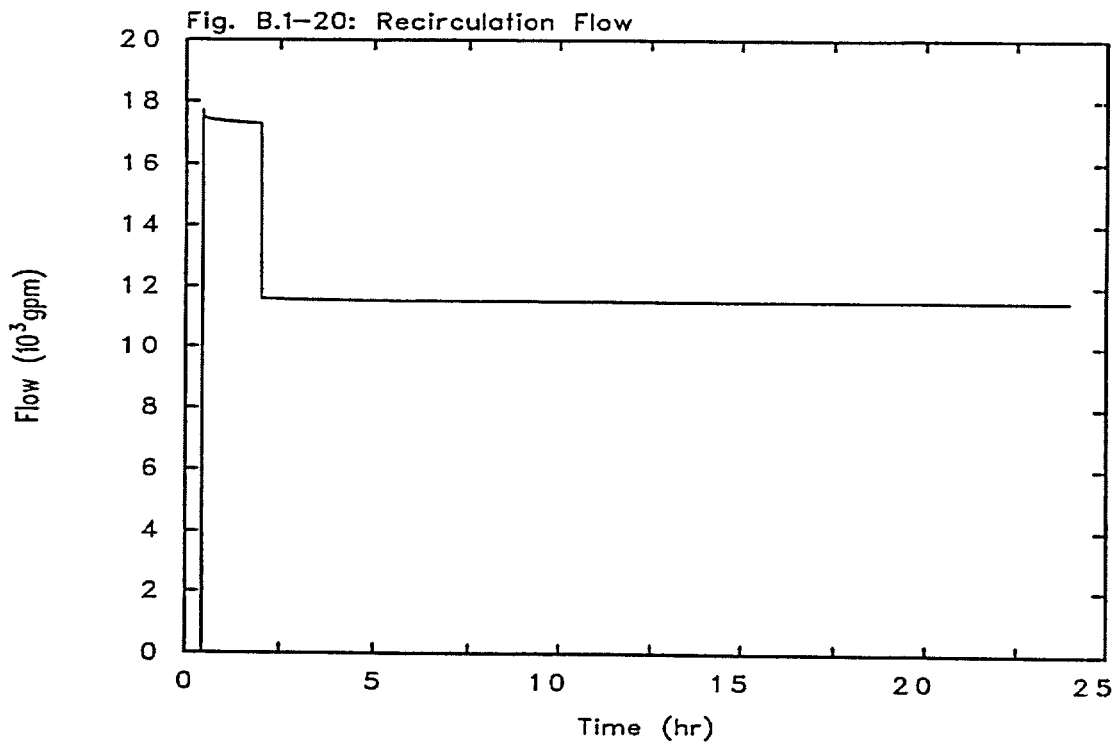
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 CVH-TLIQ.011



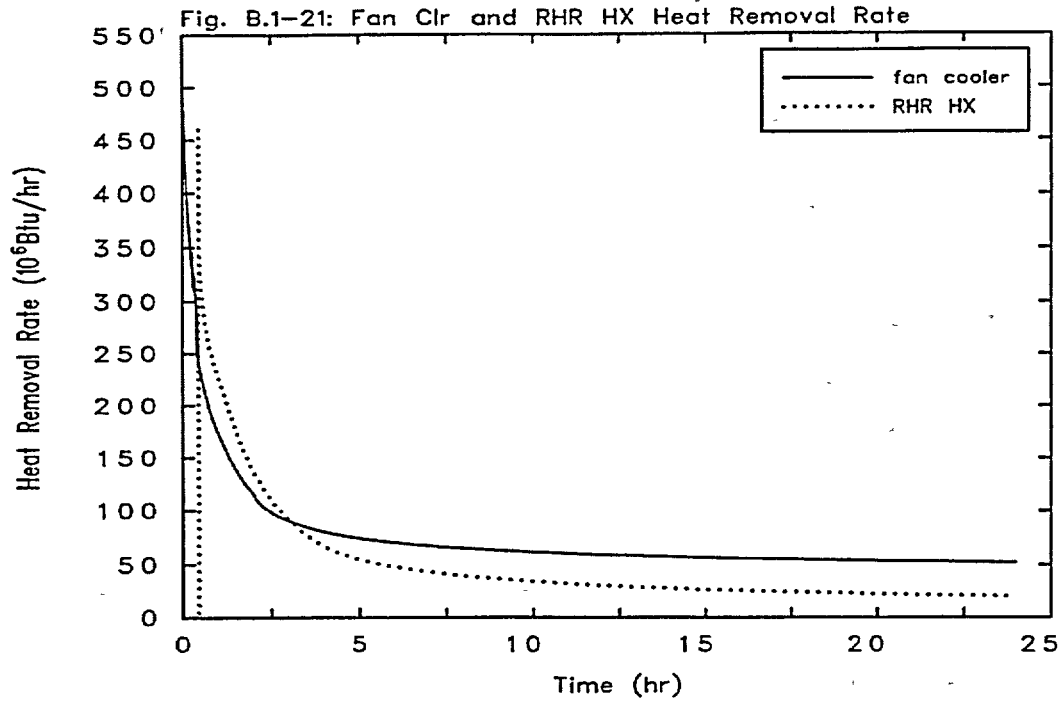
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 SPR-FL.1



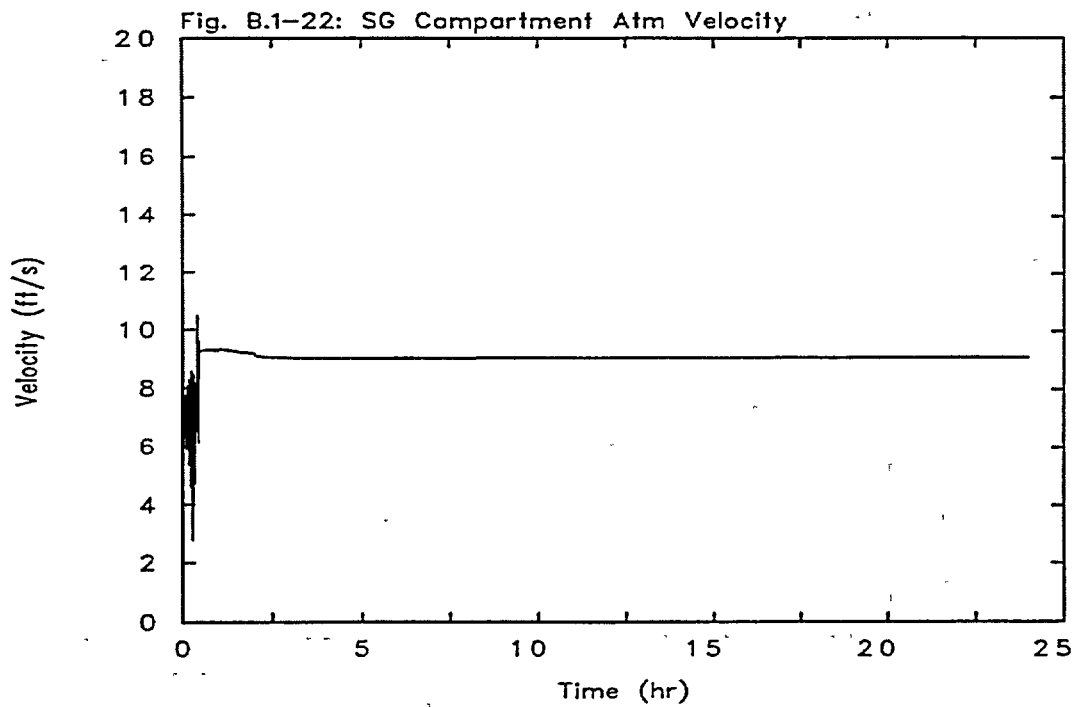
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 HLJMFIDNM 08/12/99 12:59:51 MELCOR
 CFVALU.404



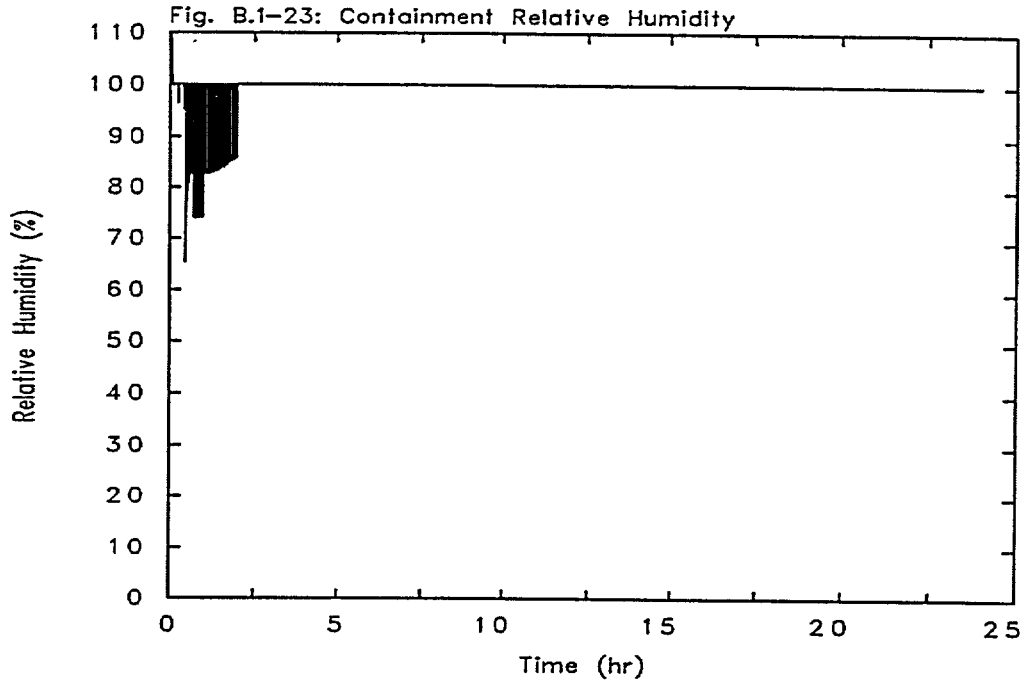
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 CFVALU.542



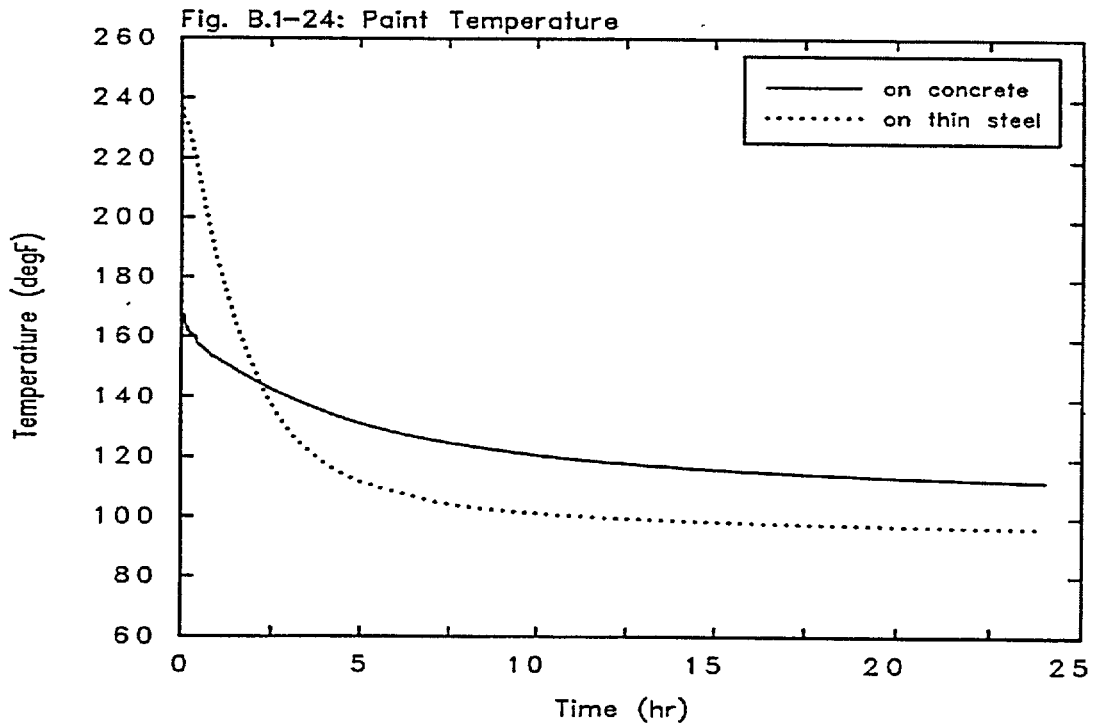
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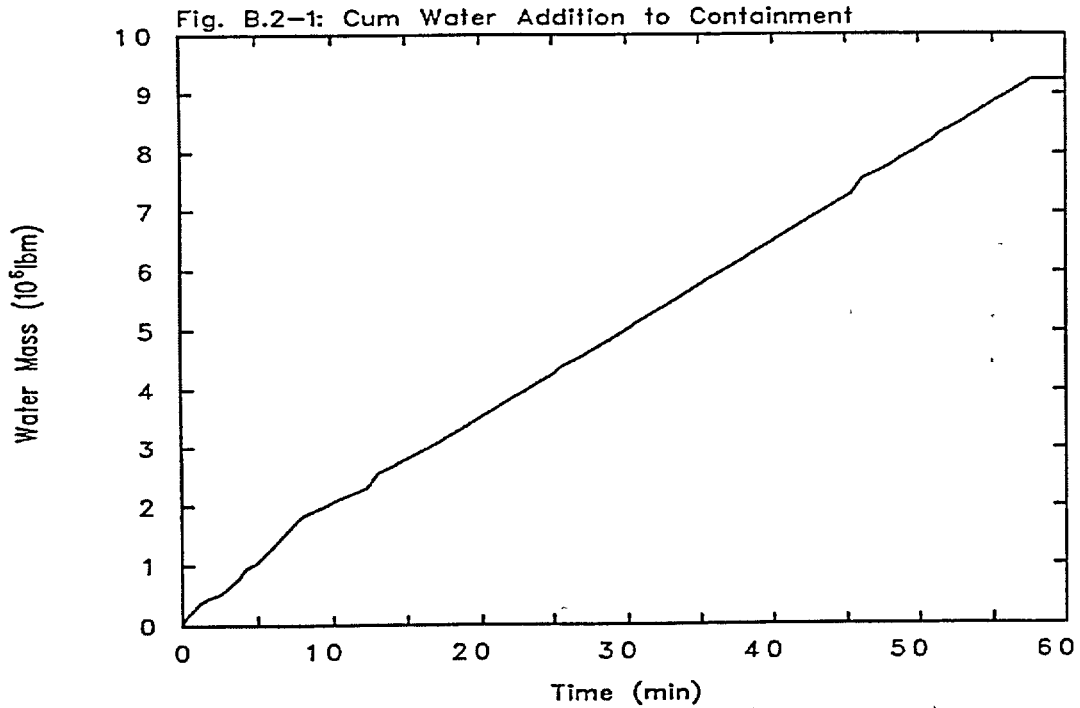
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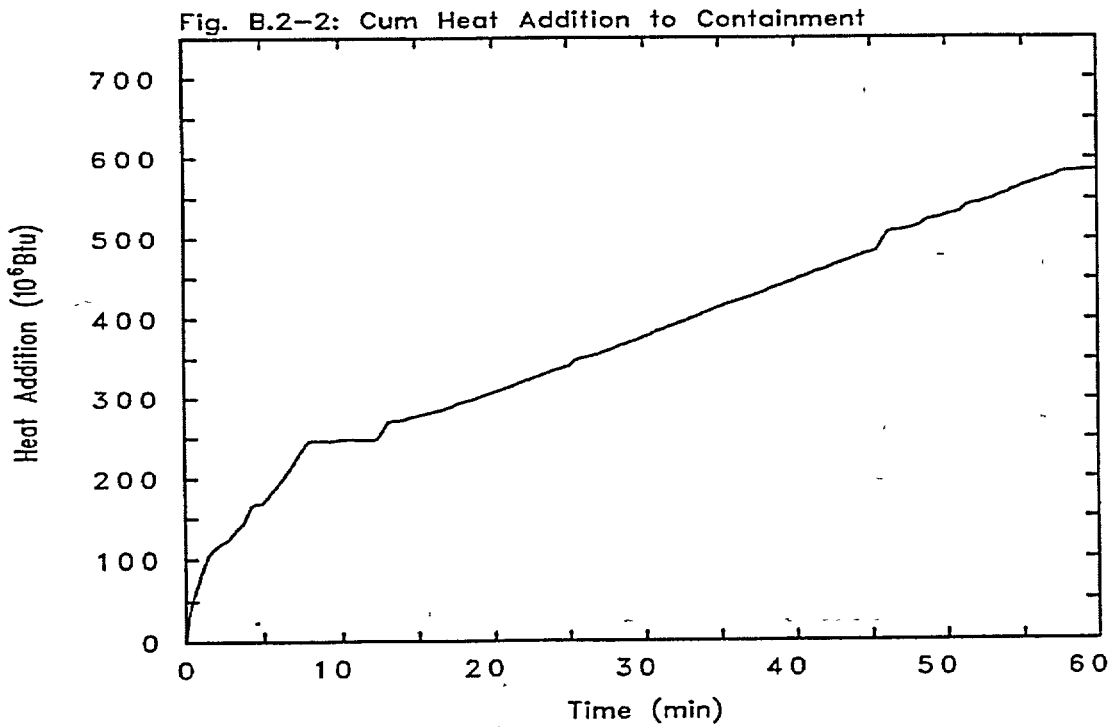
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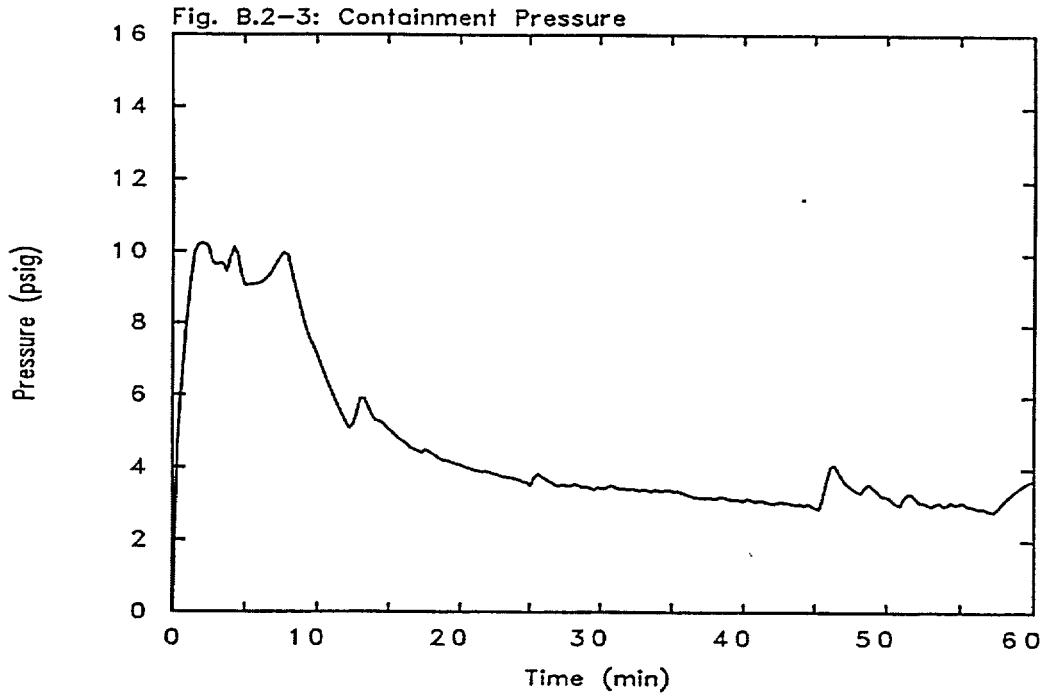
Cold Leg DEGB - Large Dry Containment
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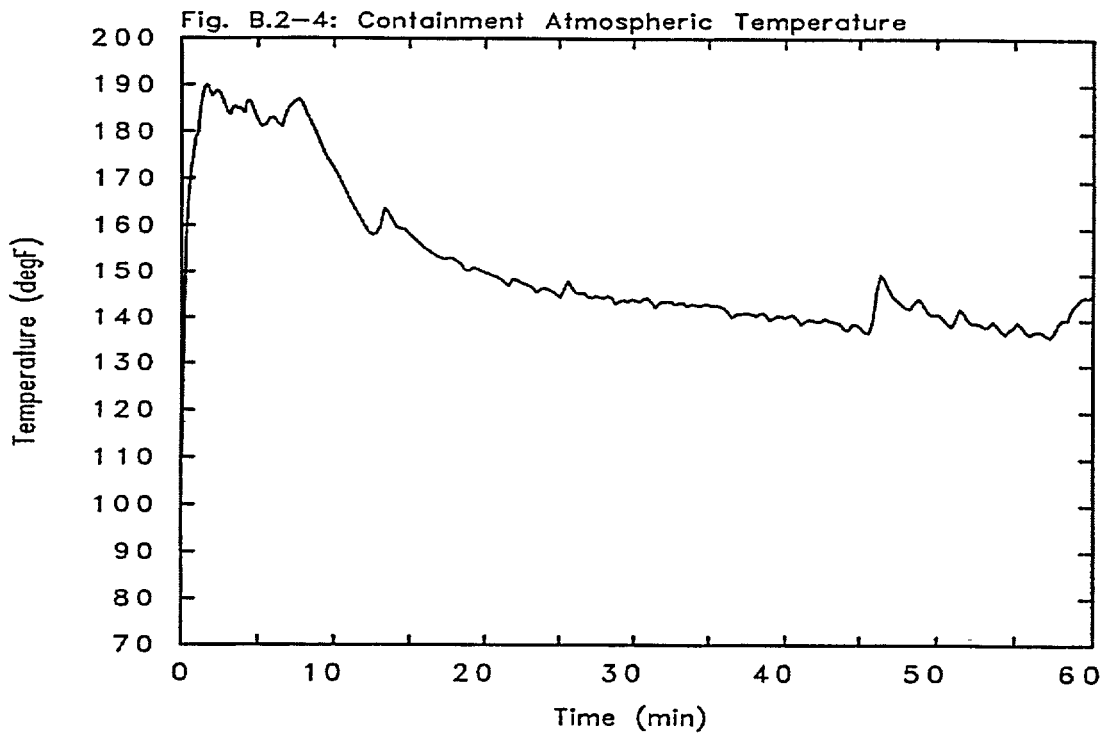
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 CFVALU.538



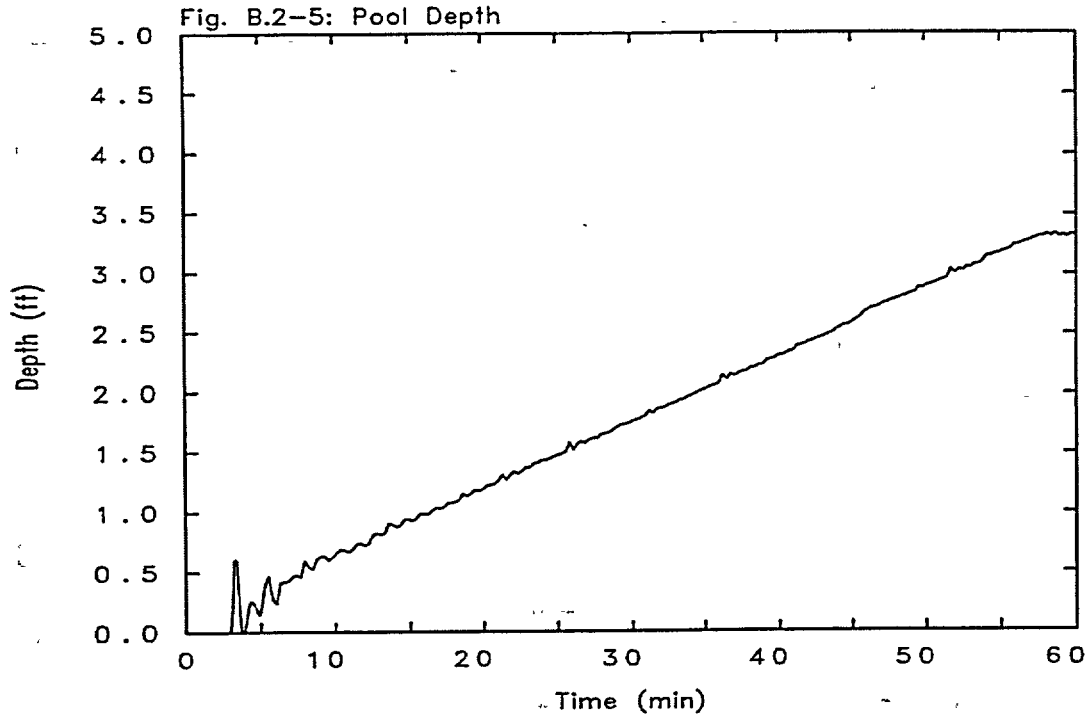
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 CFVALU.546



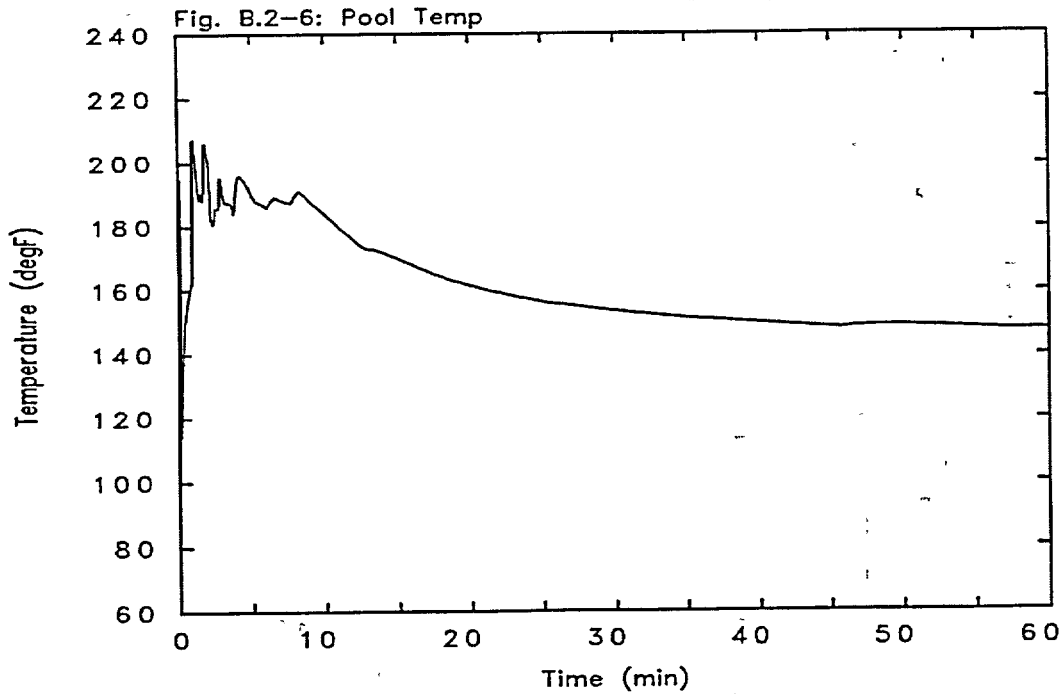
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 CVH-P.012



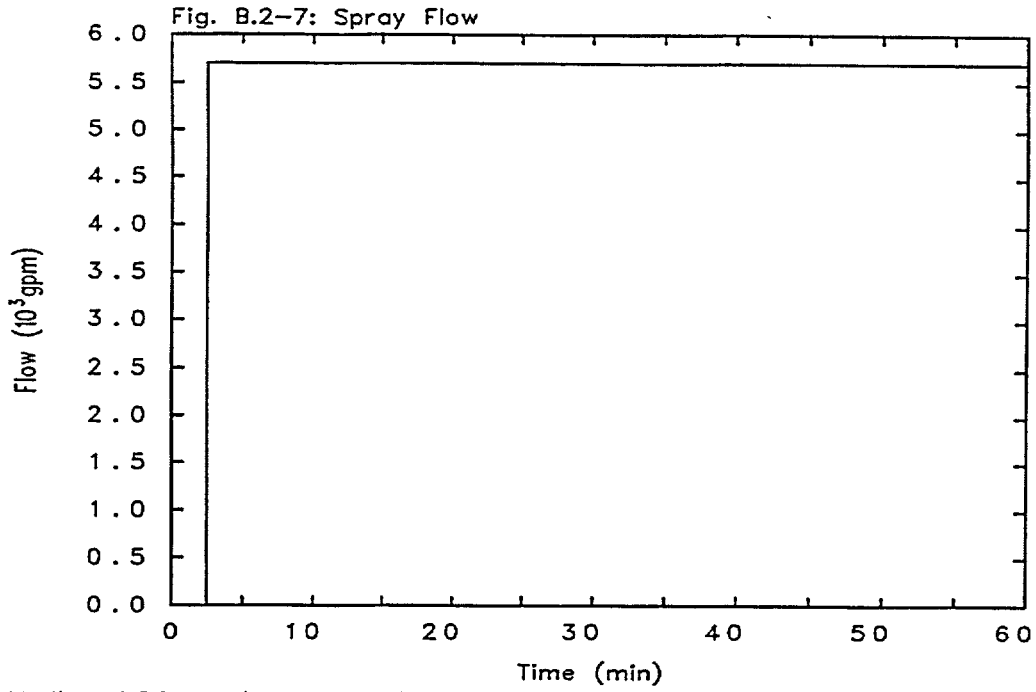
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 CVH-TVAP.012



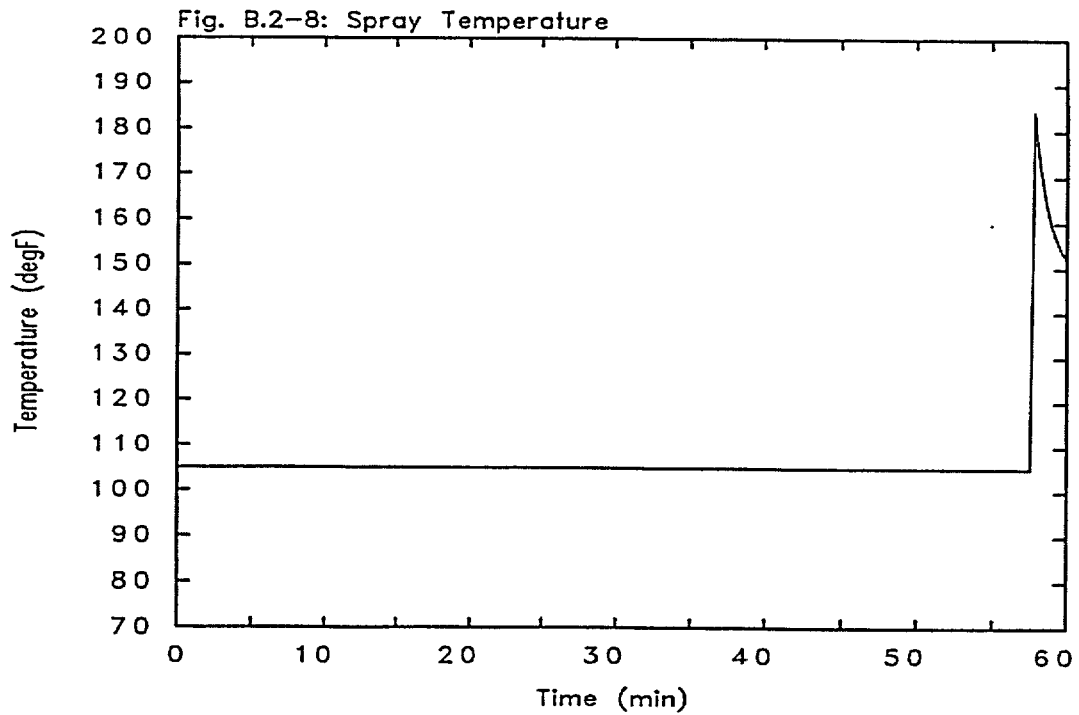
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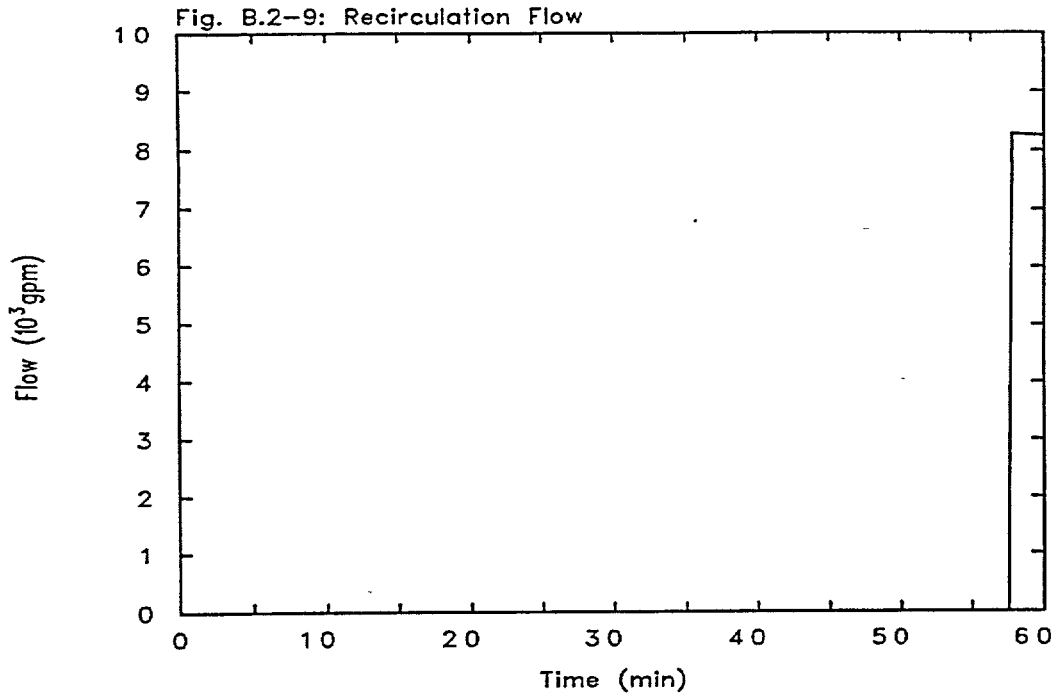
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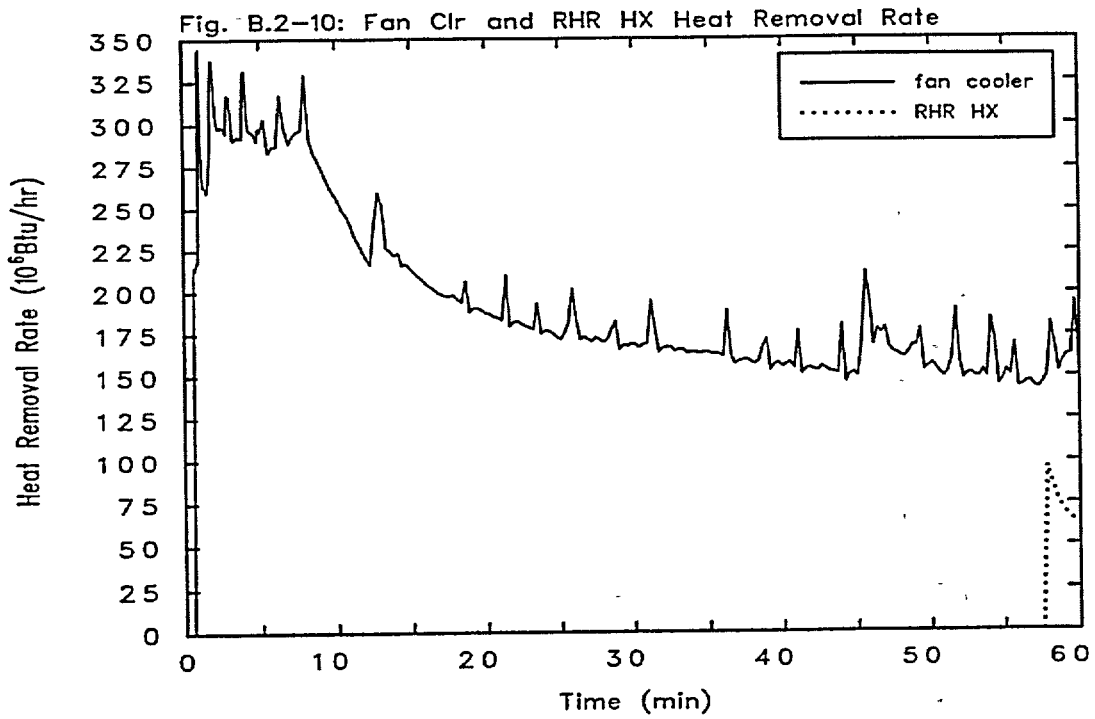
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 SPR-FL.1



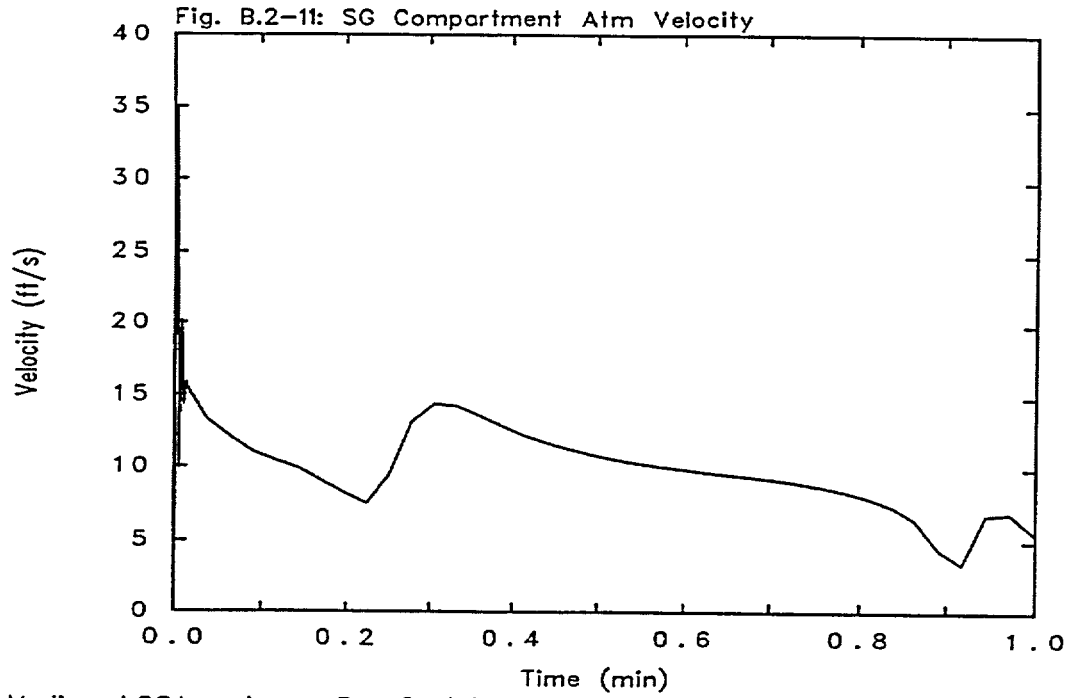
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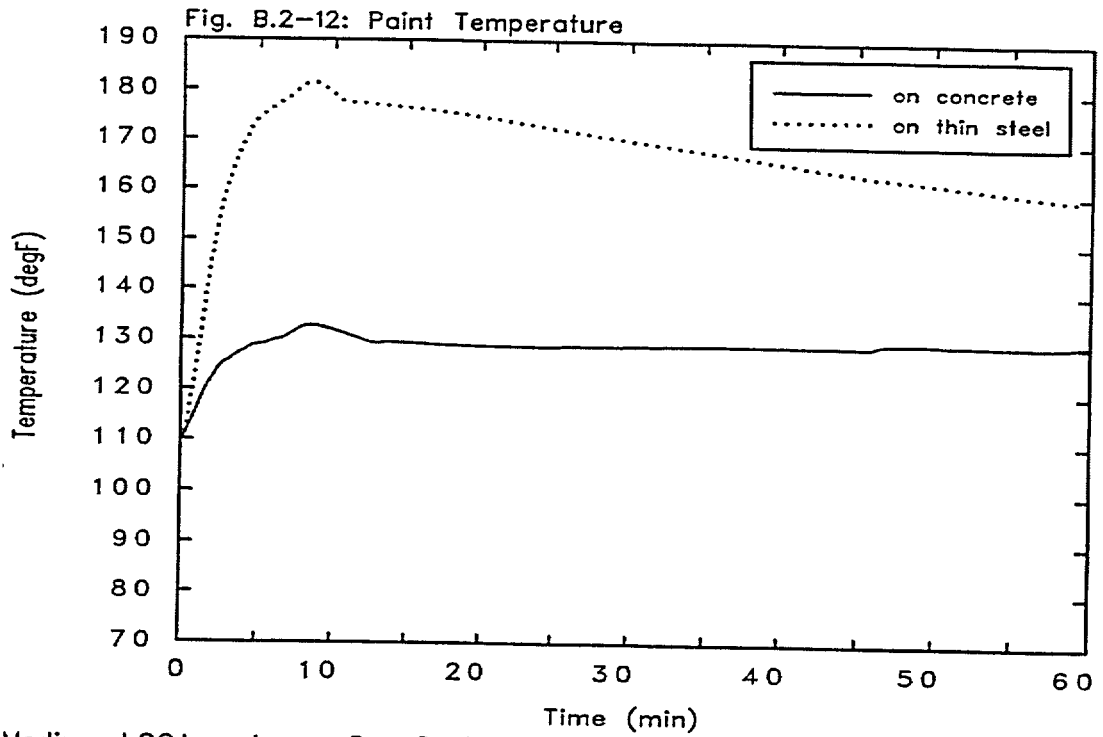
Medium LOCA - Large Dry Containment
 HMJDTJNM 08/13/99 08:42:11 MELCOR
 CFVALU.542



Medium LOCA - Large Dry Containment
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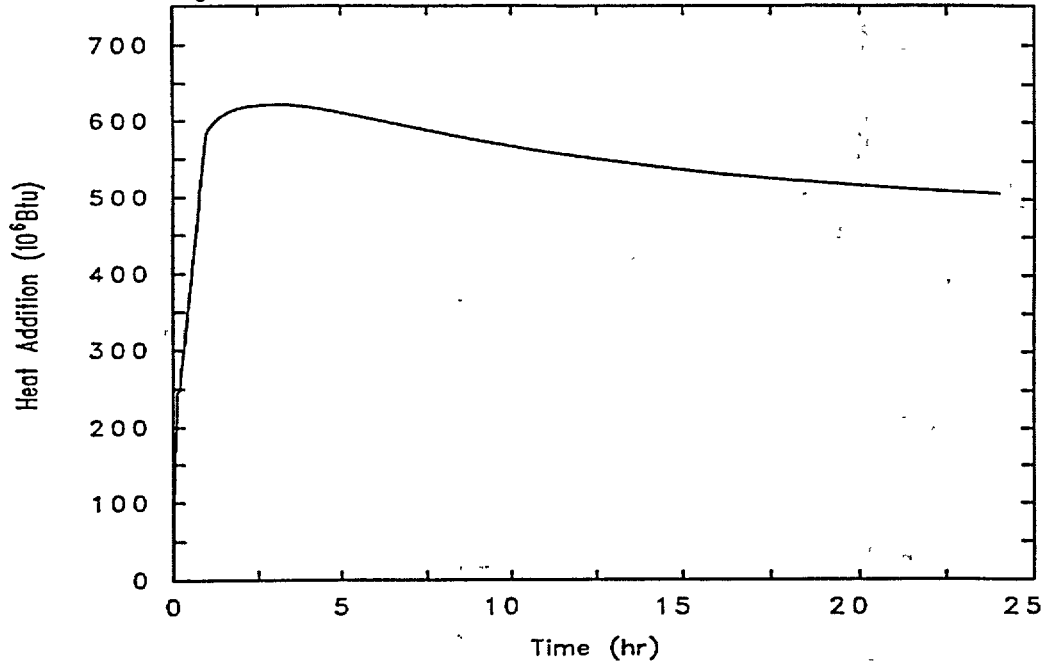


Medium LOCA - Large Dry Containment
 HMJDTJNM 08/13/99 08:42:11 MELCOR
 CVH-VELVAPCV.002



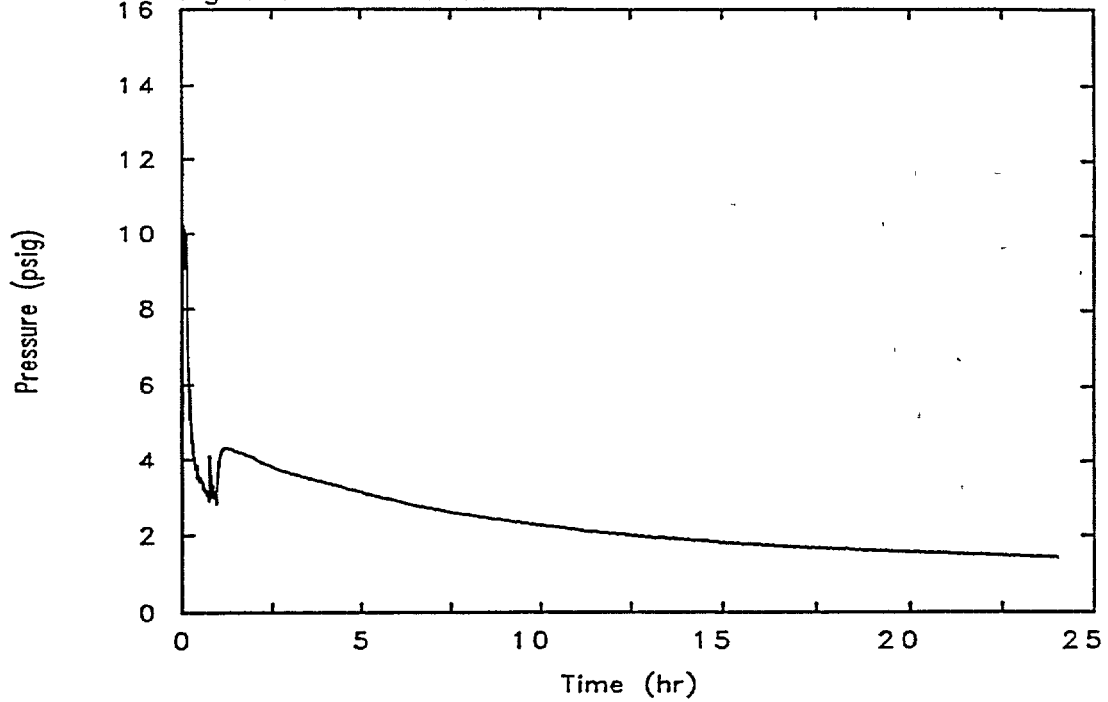
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 HMJDTJNM 08/13/99 08:42:11 MELCOR

Fig. B.2-13: Cum Heat Addition to Containment

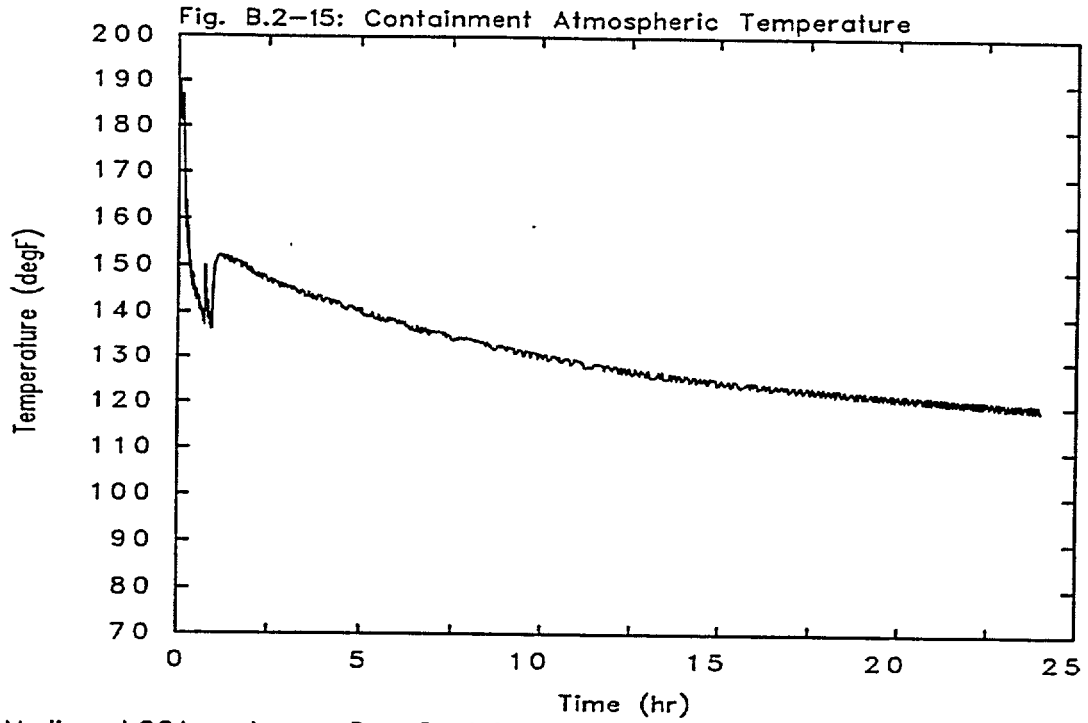


Medium LOCA - Large Dry Containment
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CFVALU.546

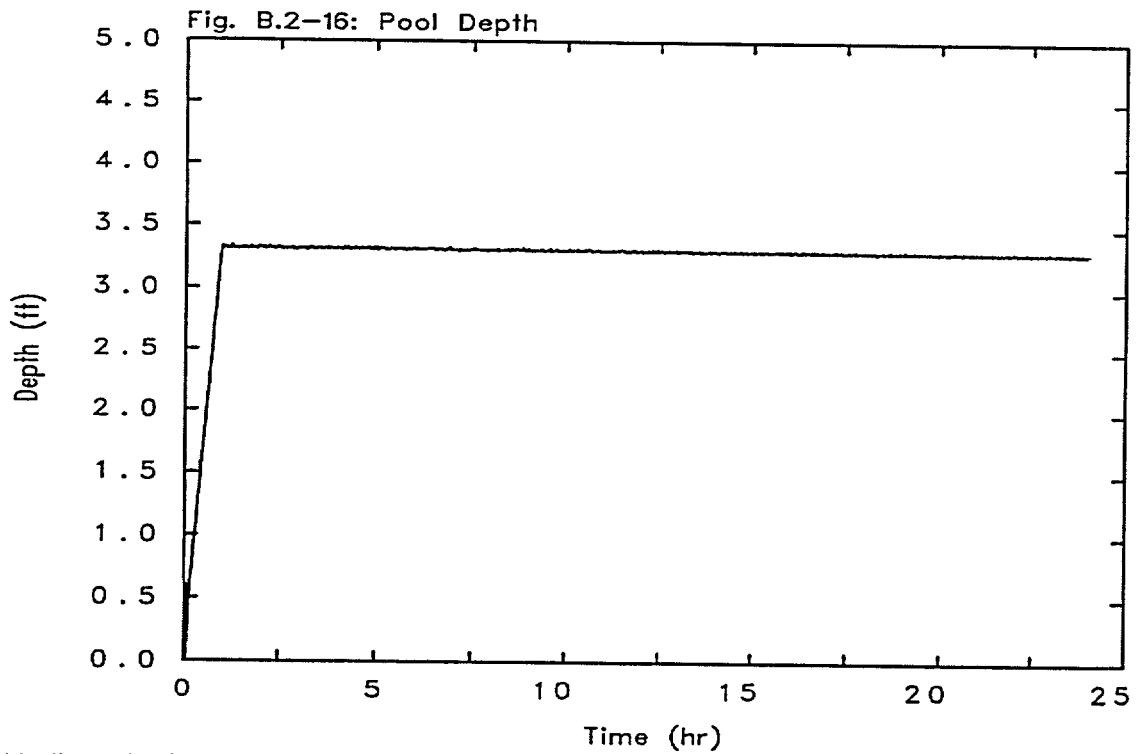
Fig. B.2-14: Containment Pressure



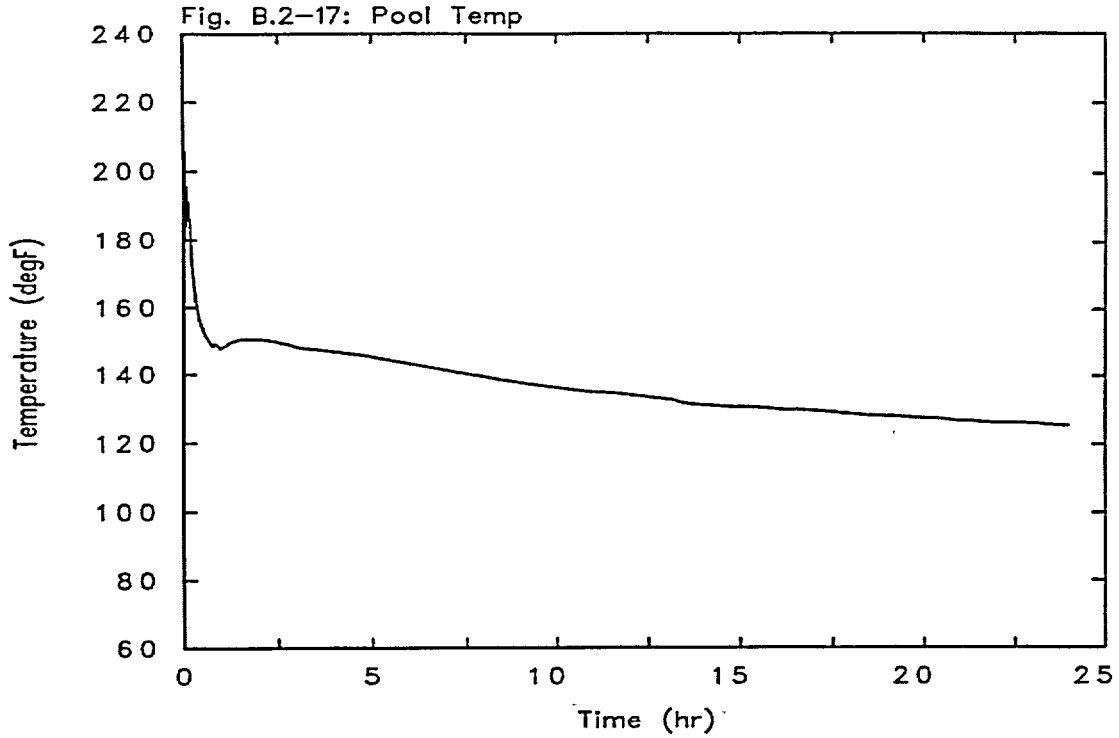
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HMJIDTJNM 08/13/99 08:42:11 MELCOR
CVH-P.012



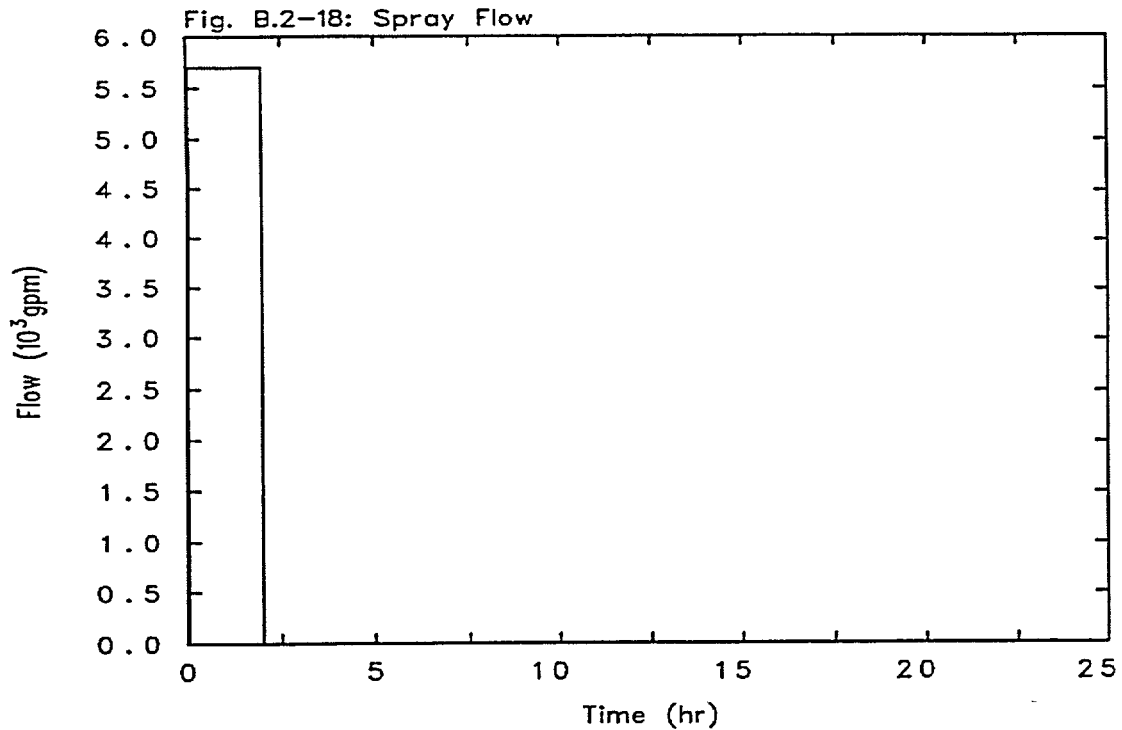
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 CVH-TVAP.012



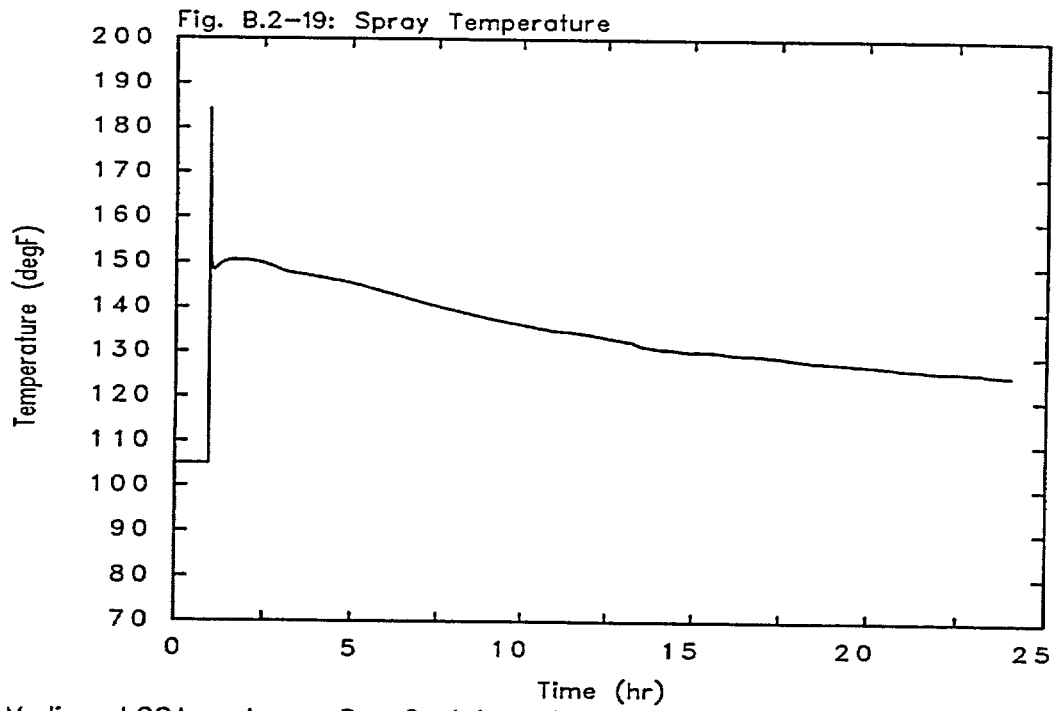
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 CVH-LIQLEV.011



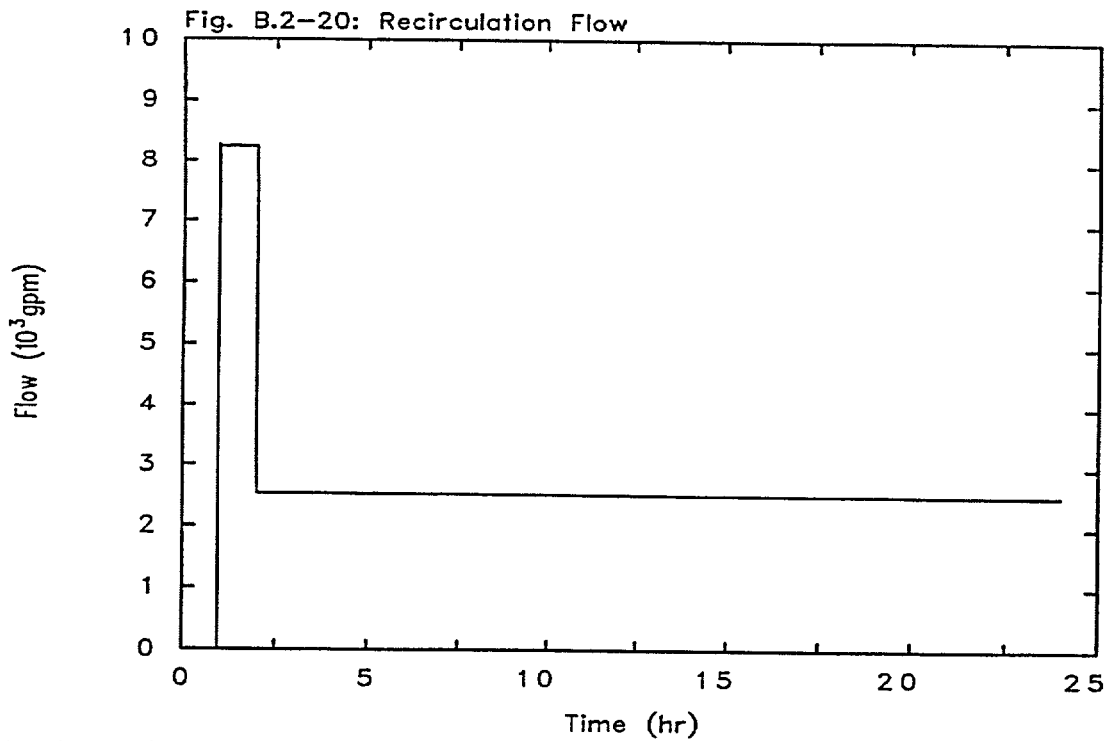
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 HMJIDTJNM 08/13/99 08:42:11 MELCOR
 CVH-TLIQ.011



Medium LOCA - Large Dry Containment
 HMJIDTJNM 08/13/99 08:42:11 MELCOR
 SPR-FL.1

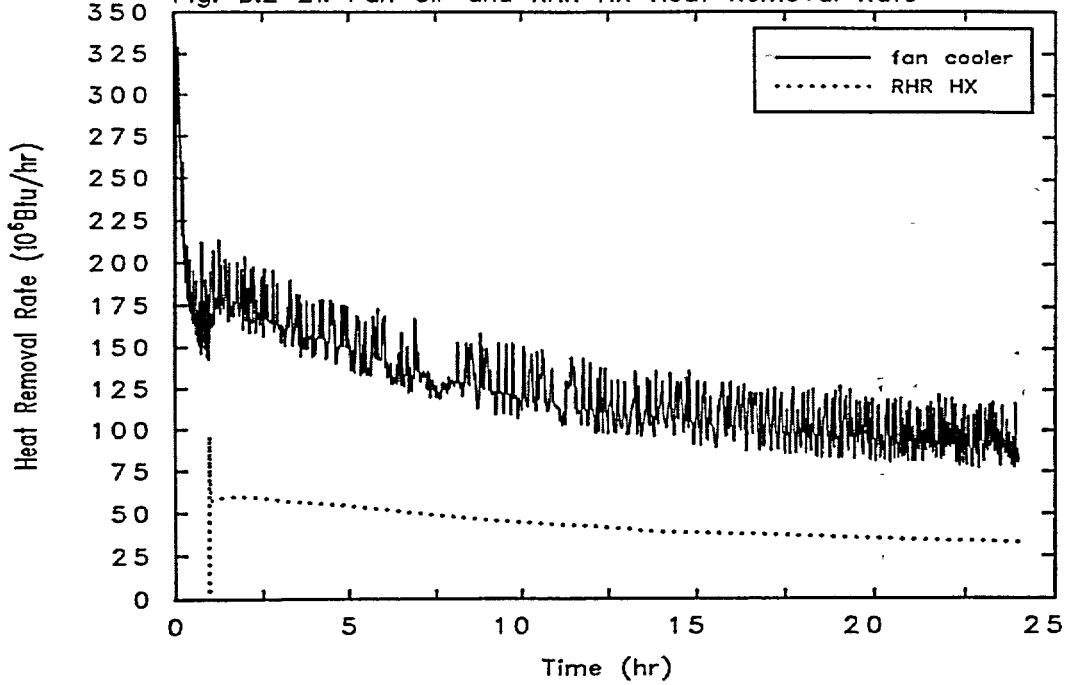


Medium LOCA - Large Dry Containment
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 CFVALU.404



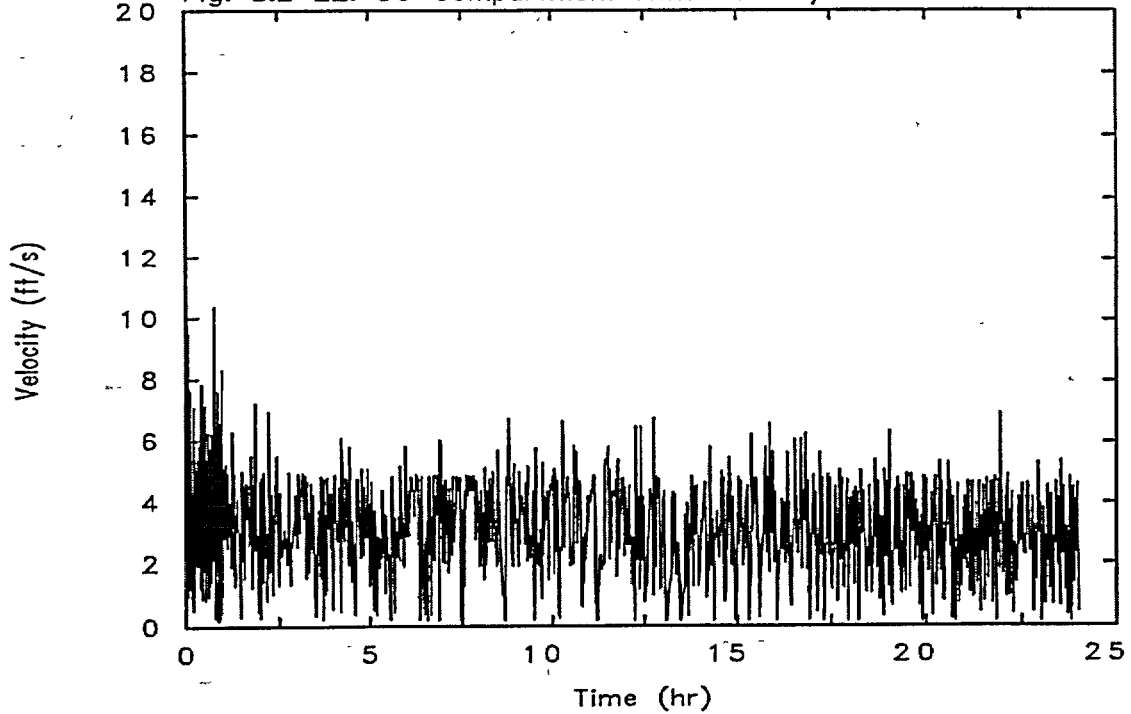
Medium LOCA - Large Dry Containment
 HMJDTJNM 08/13/99 08:42:11 MELCOR
 CFVALU.542

Fig. B.2-21: Fan Clr and RHR HX Heat Removal Rate

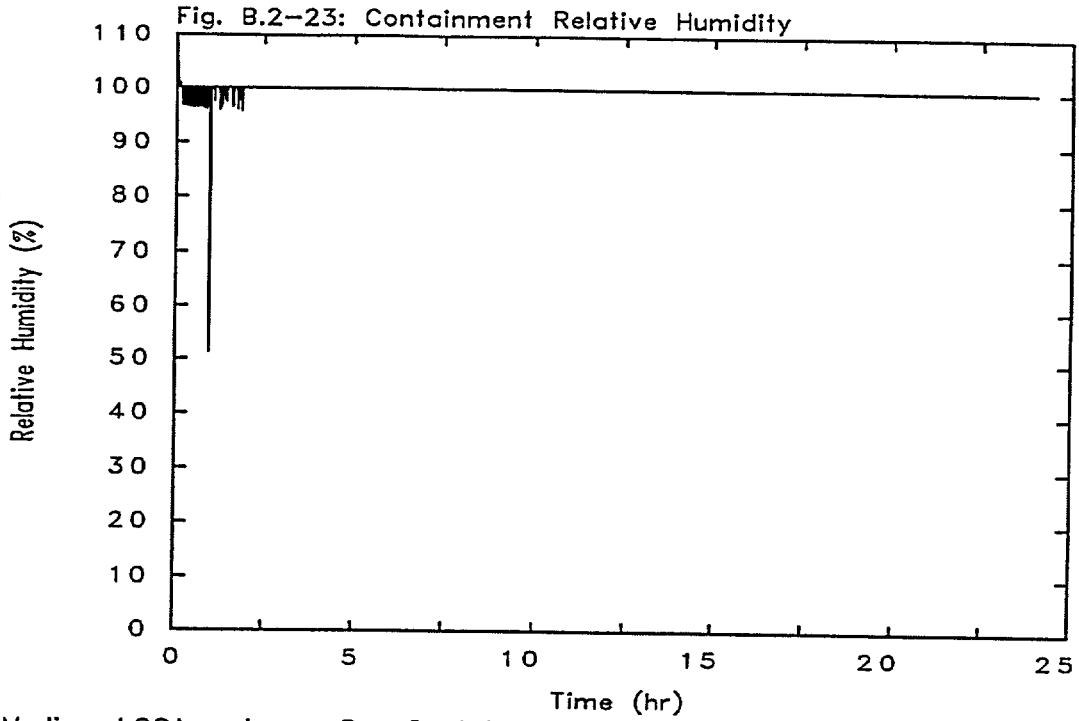


Medium LOCA - Large Dry Containment
HMJIDTJNM 08/13/99 08:42:11 MELCOR

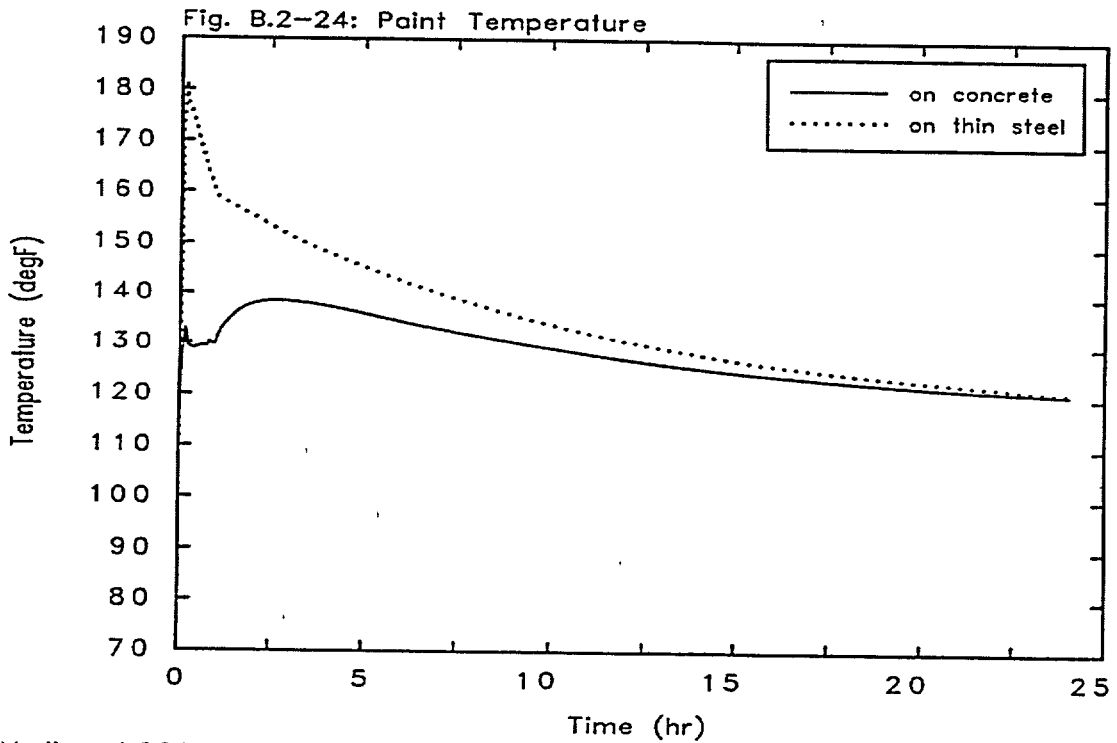
Fig. B.2-22: SG Compartment Atm Velocity



Medium LOCA - Large Dry Containment
HMJIDTJNM 08/13/99 08:42:11 MELCOR
CVH-VELVAPCV.002

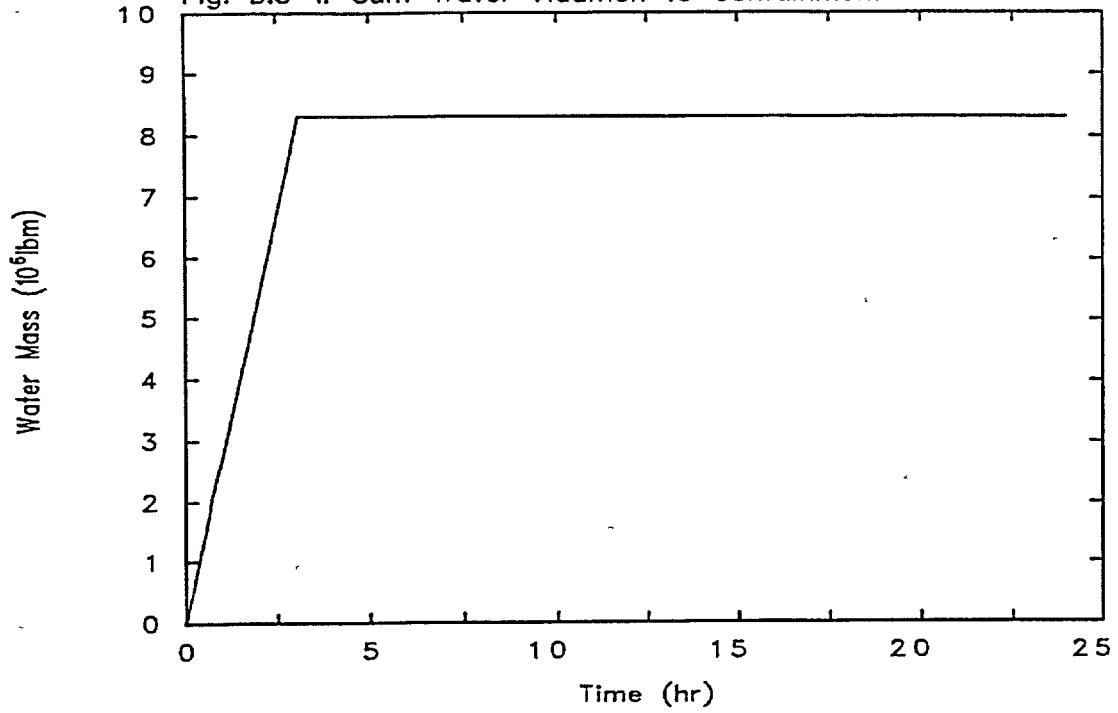


Medium LOCA - Large Dry Containment
 HMJDTJNM 08/13/99 08:42:11 MELCOR
 CFVALU.536



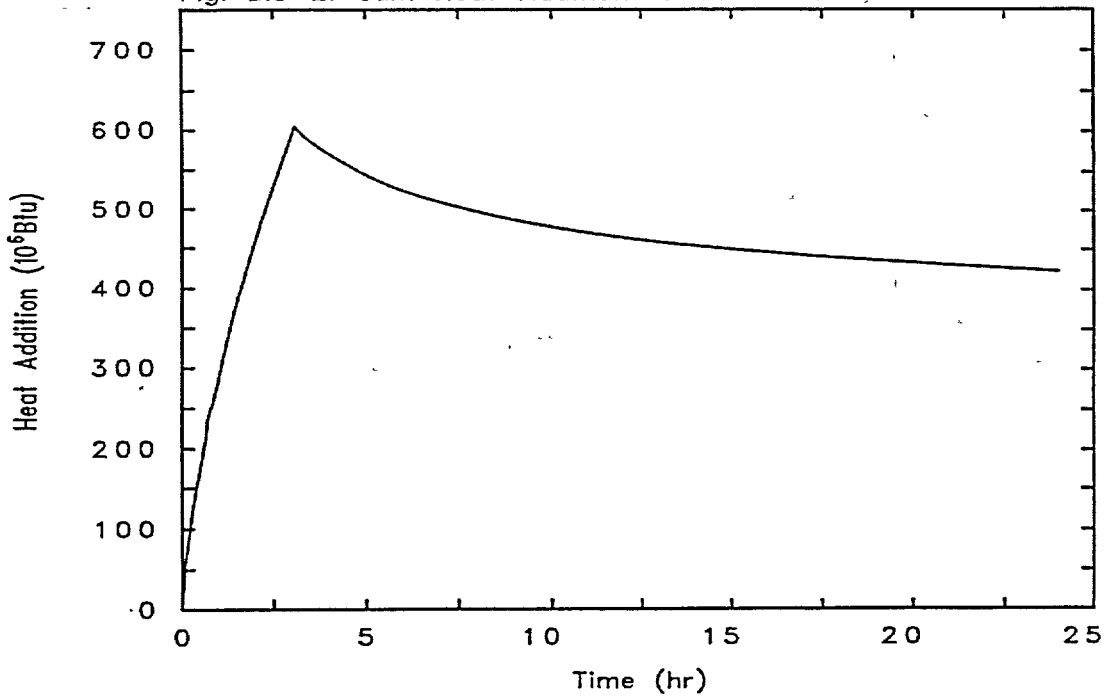
Medium LOCA - Large Dry Containment
 HMJDTJNM 08/13/99 08:42:11 MELCOR

Fig. B.3-1: Cum Water Addition to Containment

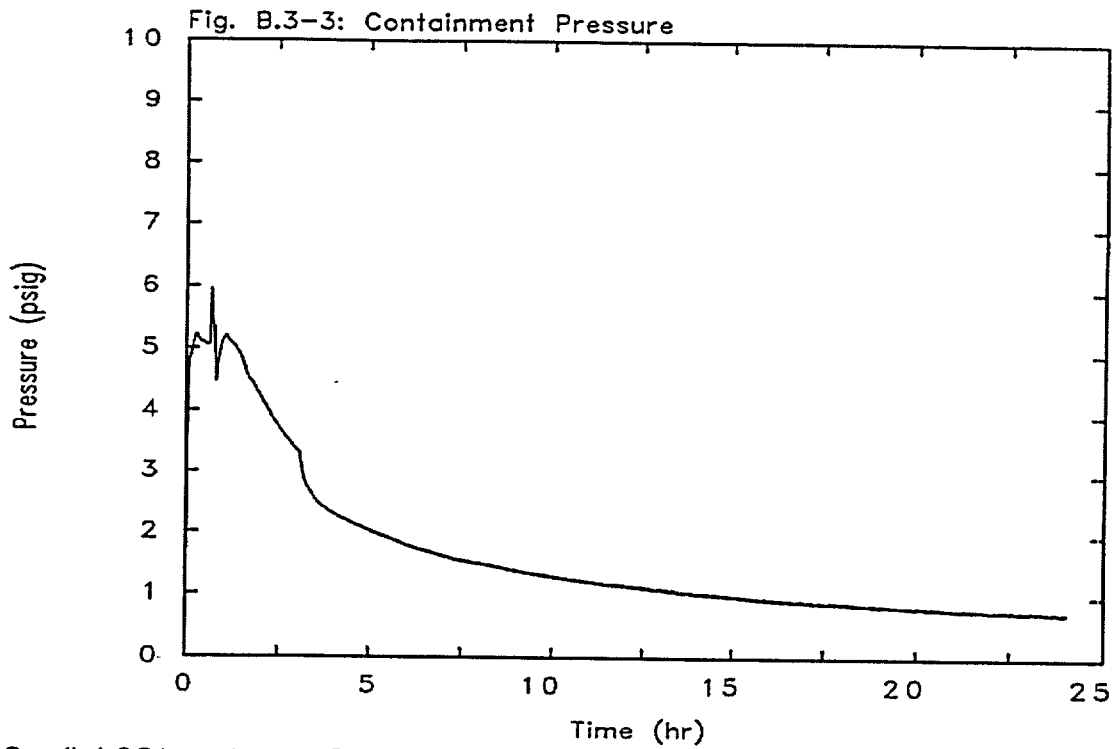


Small LOCA - Large Dry Containment
HLJLFFINM 08/12/99 11:58:38 MELCOR
CFVALU.538

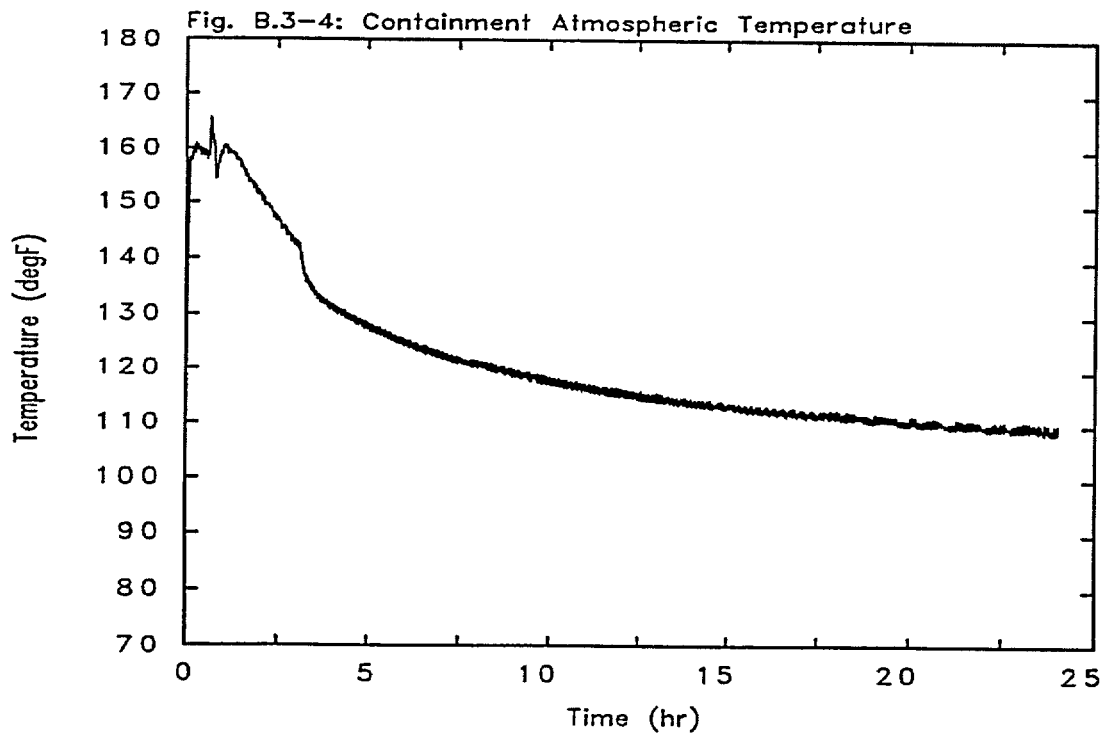
Fig. B.3-2: Cum Heat Addition to Containment



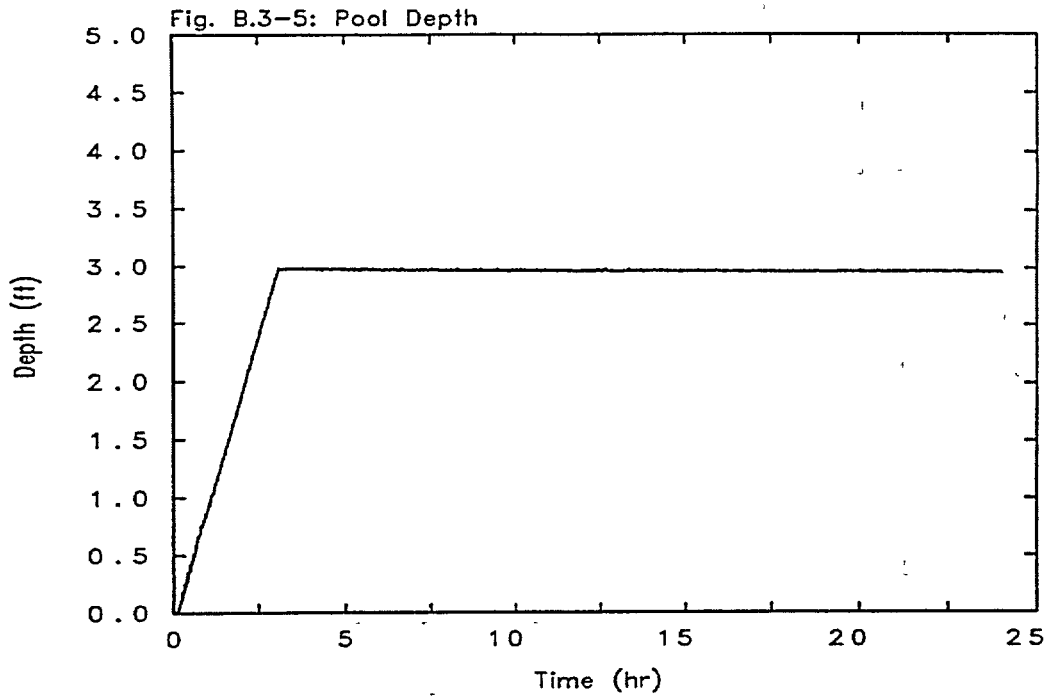
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CFVALU.546



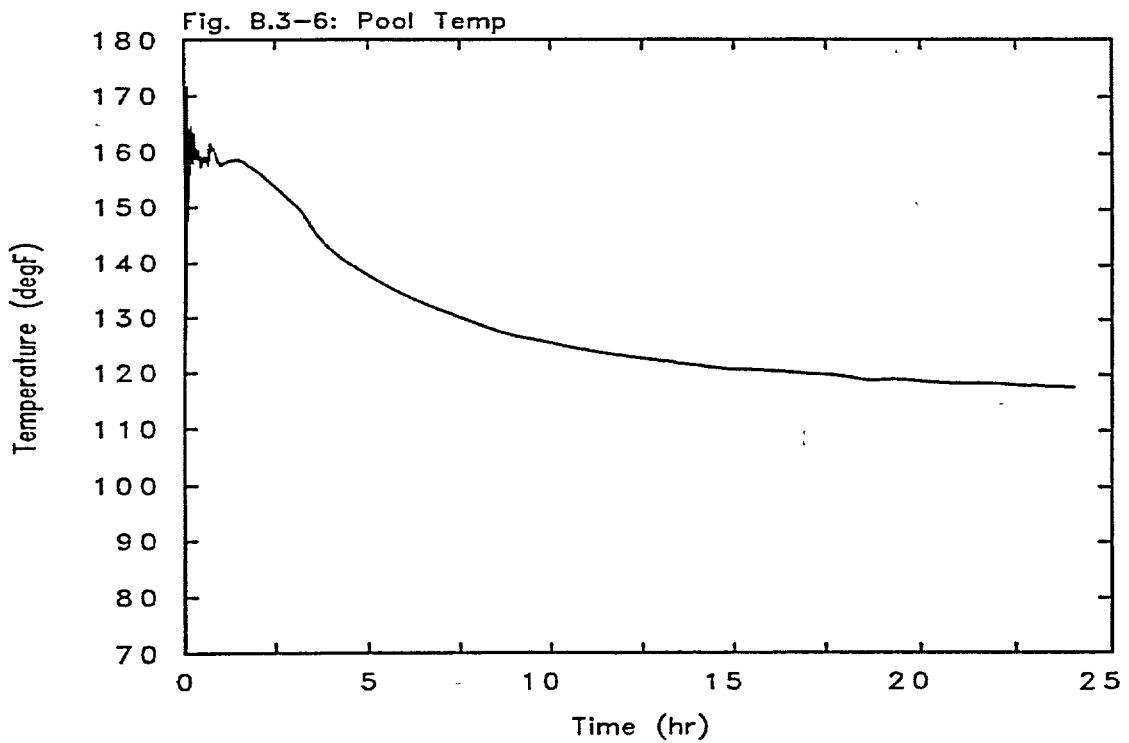
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 CVH-P.012



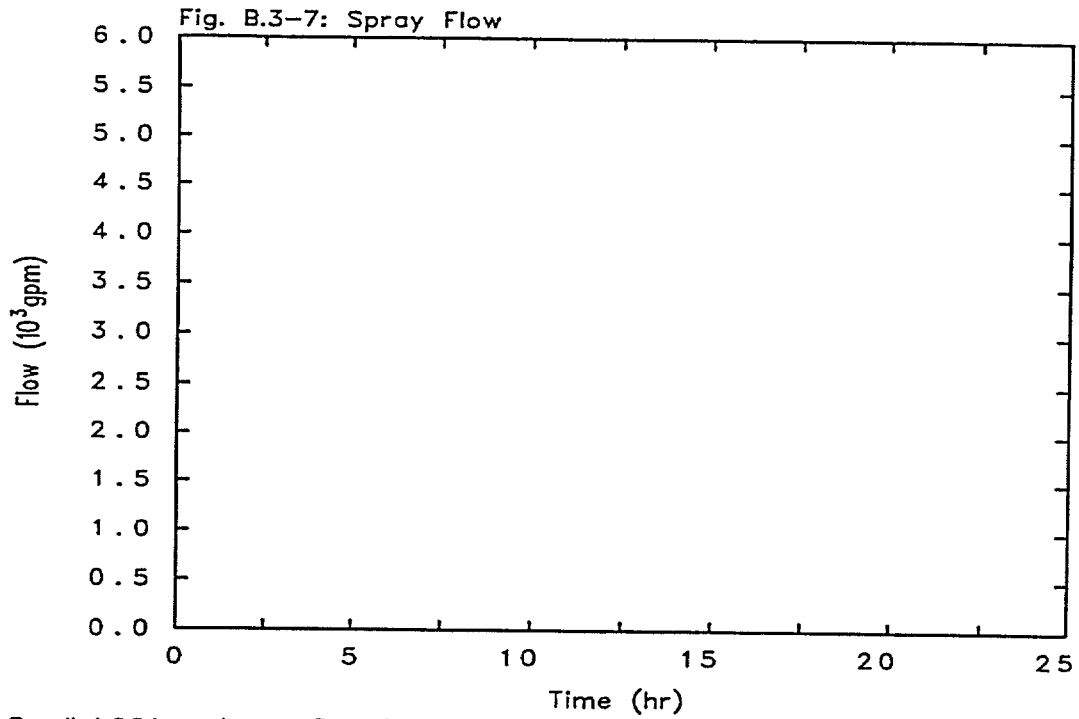
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 CVH-TVAP.012



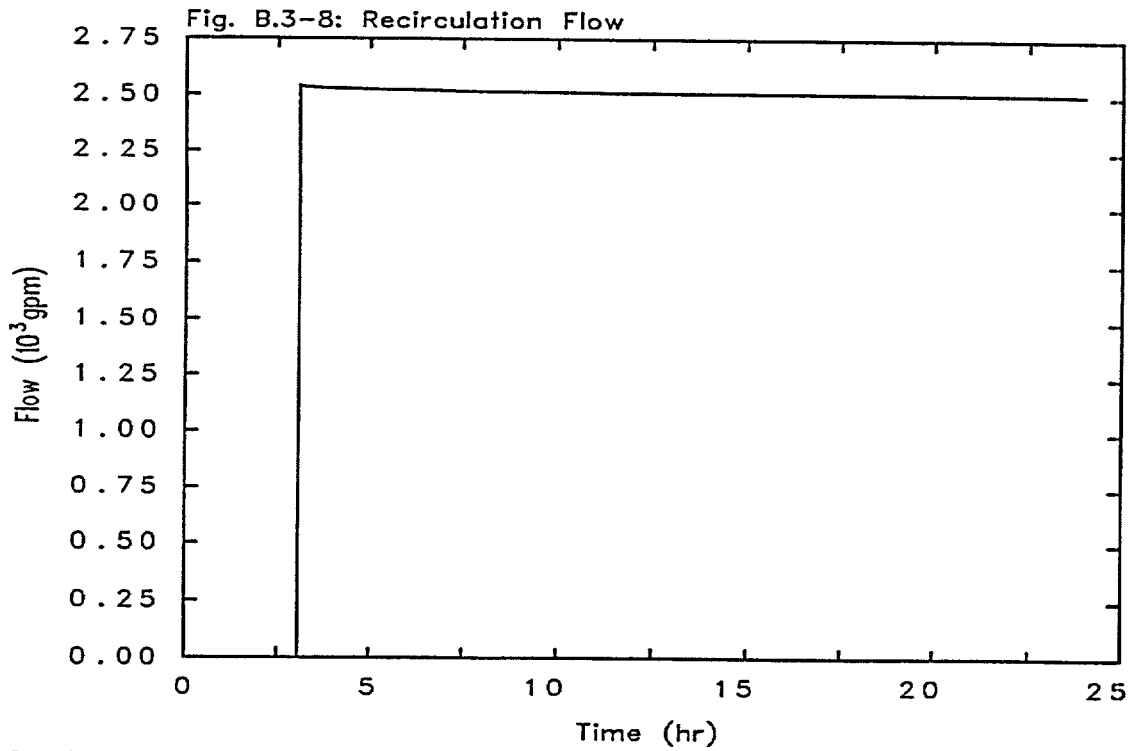
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 HLJLFFINM 08/12/99 11:58:38 MELCOR
 CVH-LIQLEV.011



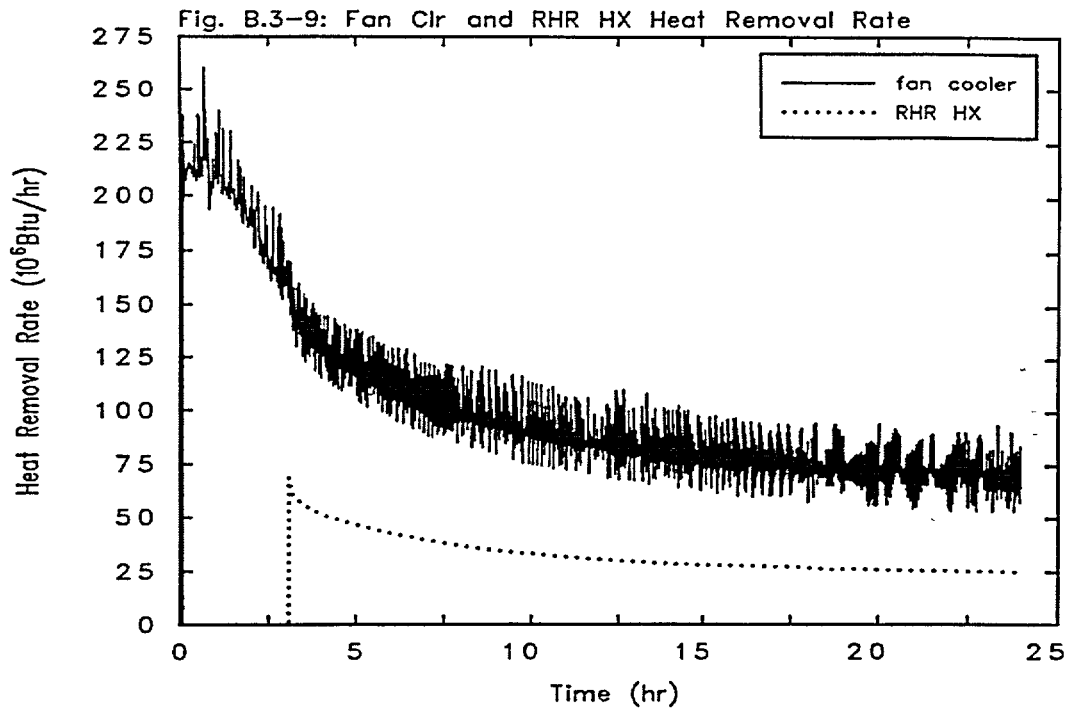
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 CVH-TLIQ.011



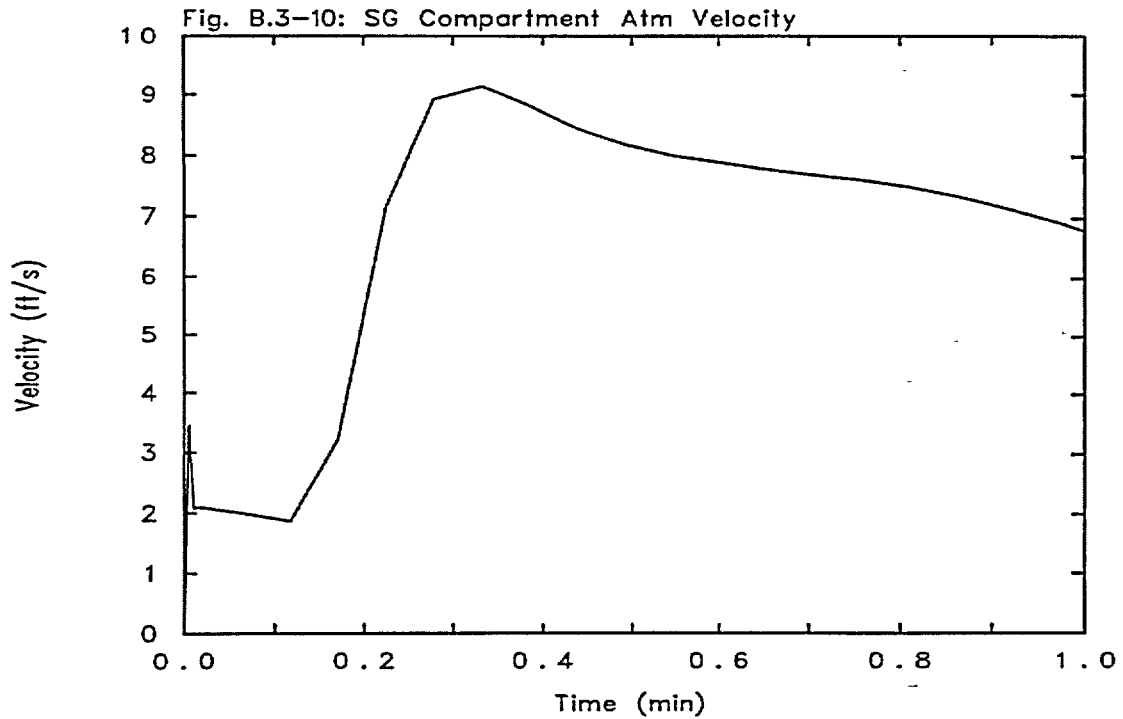
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 HLJLFFINM 08/12/99 11:58:38 MELCOR
 SPR-FL.1



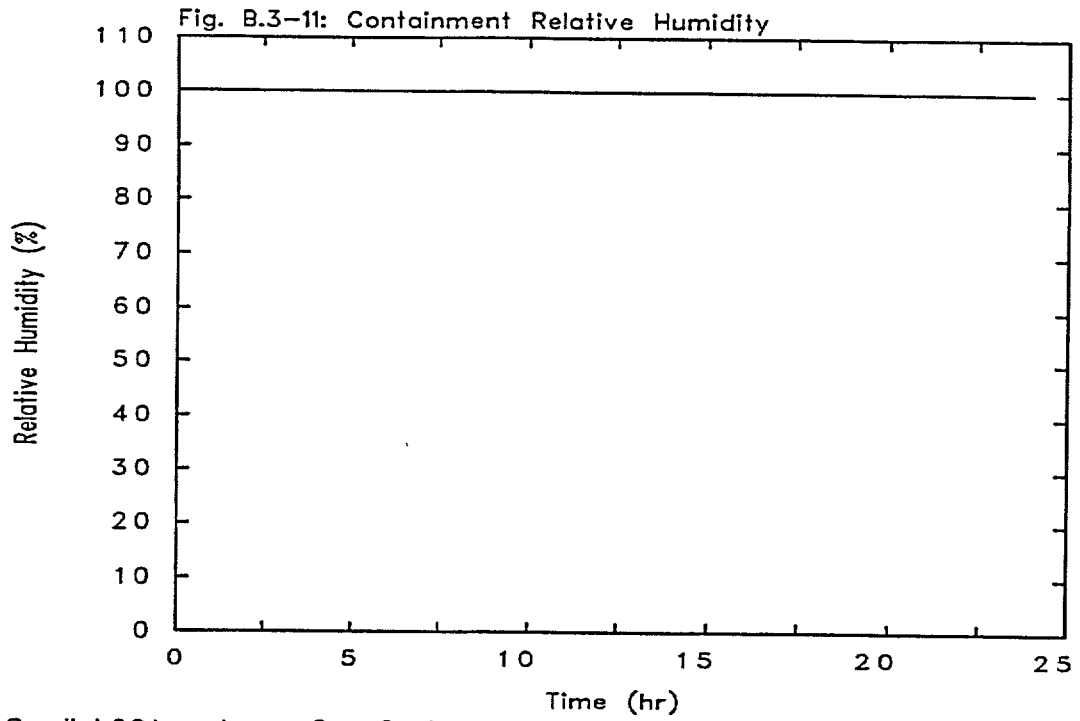
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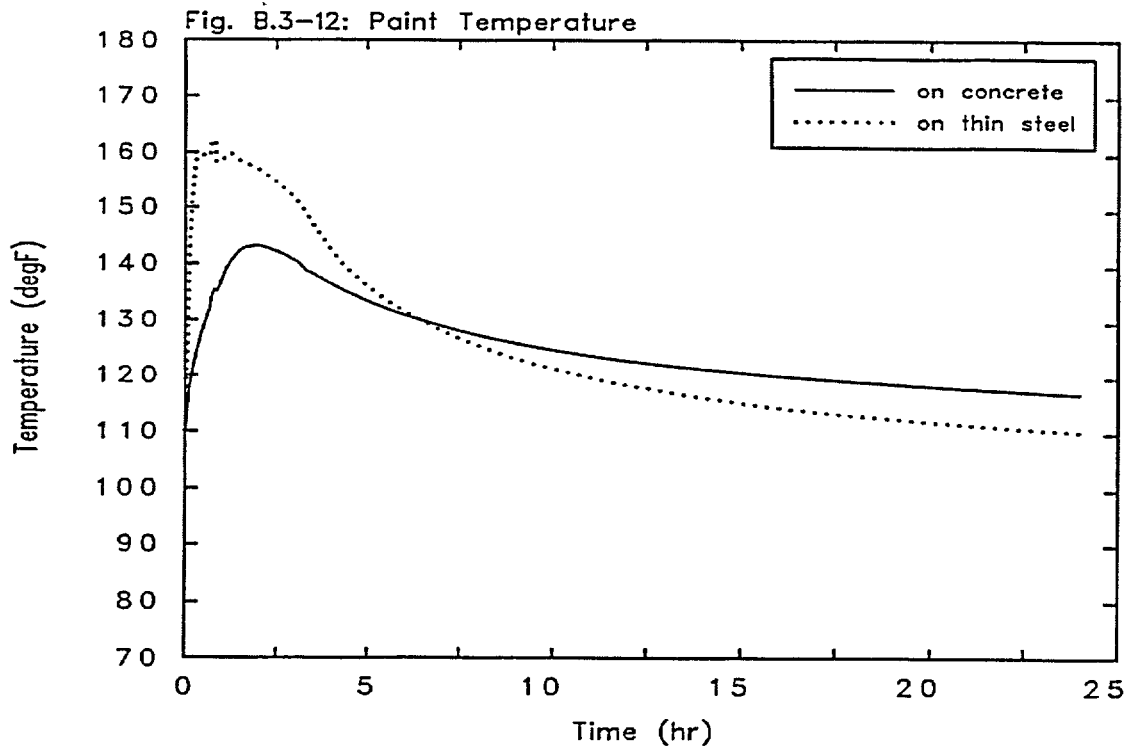
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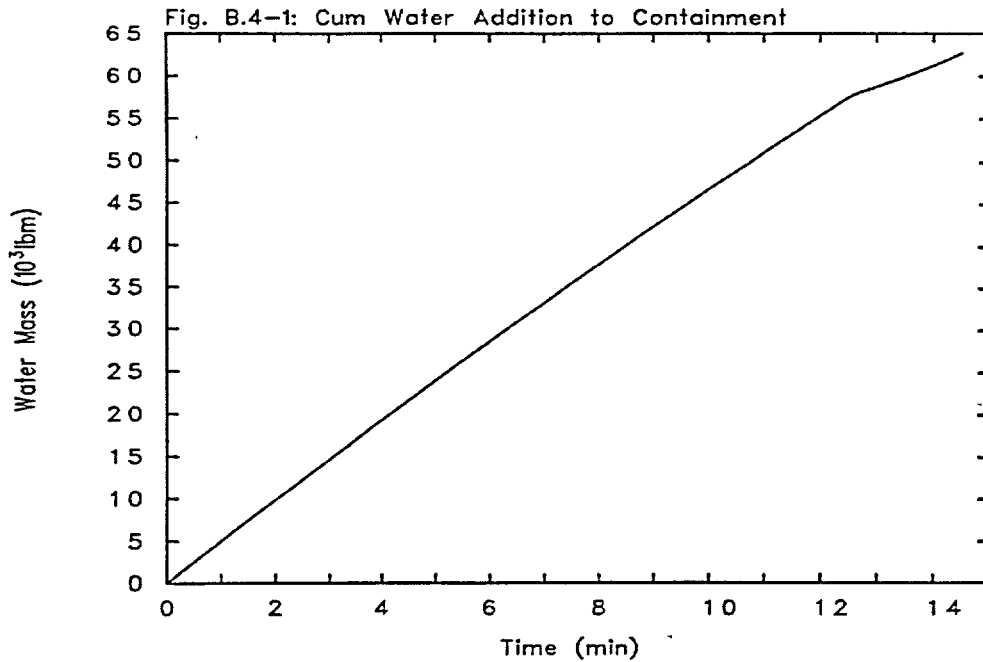
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 CVH-VELVAPCV.002



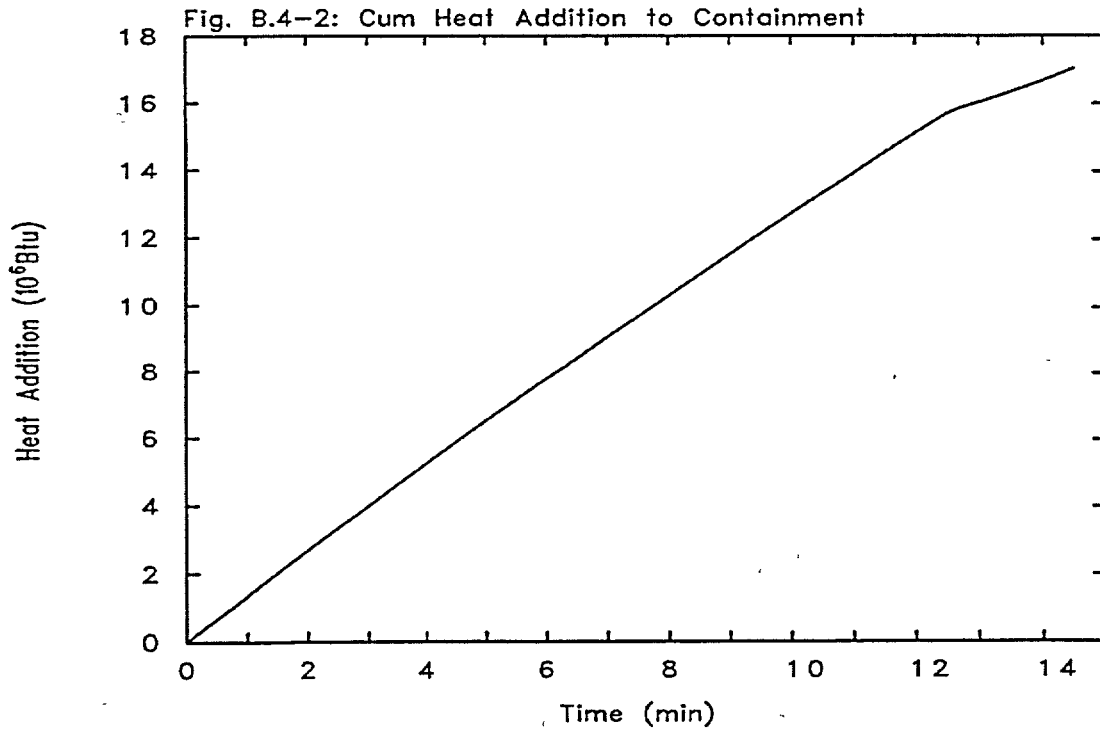
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 CFVALU.536



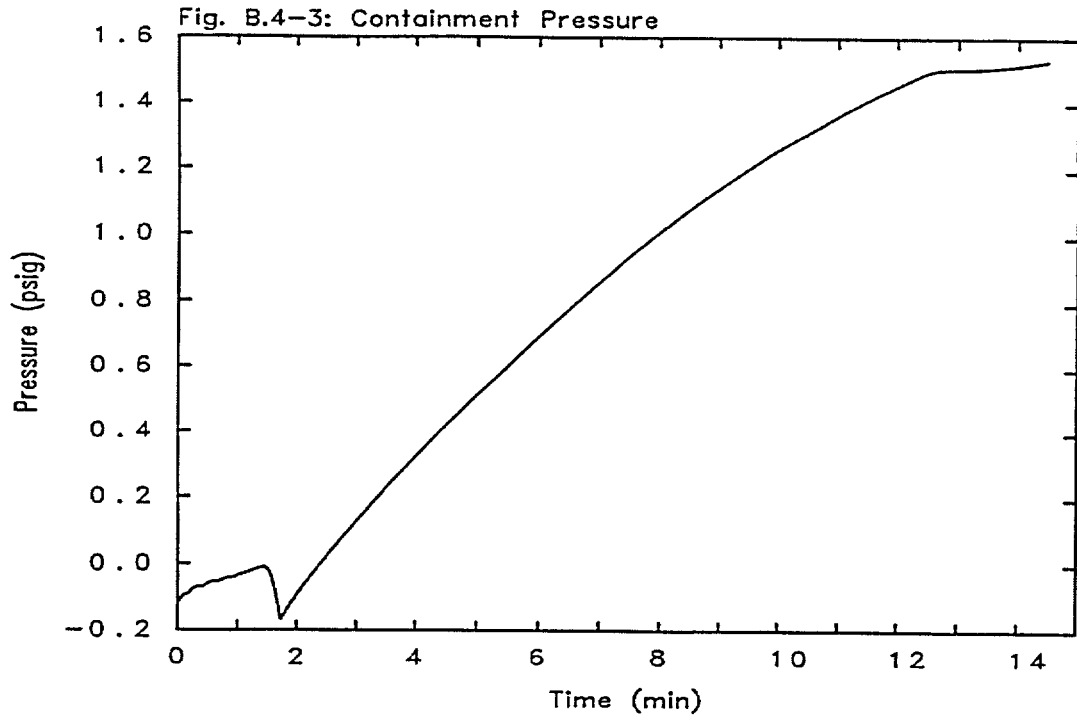
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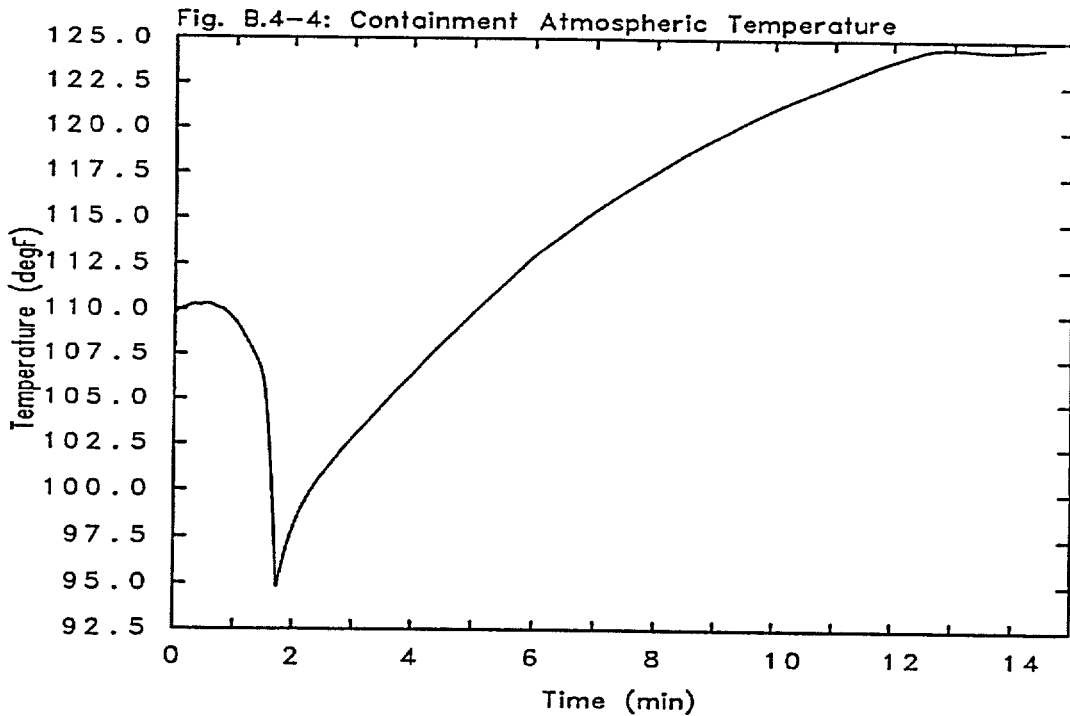
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 CFVALU.538



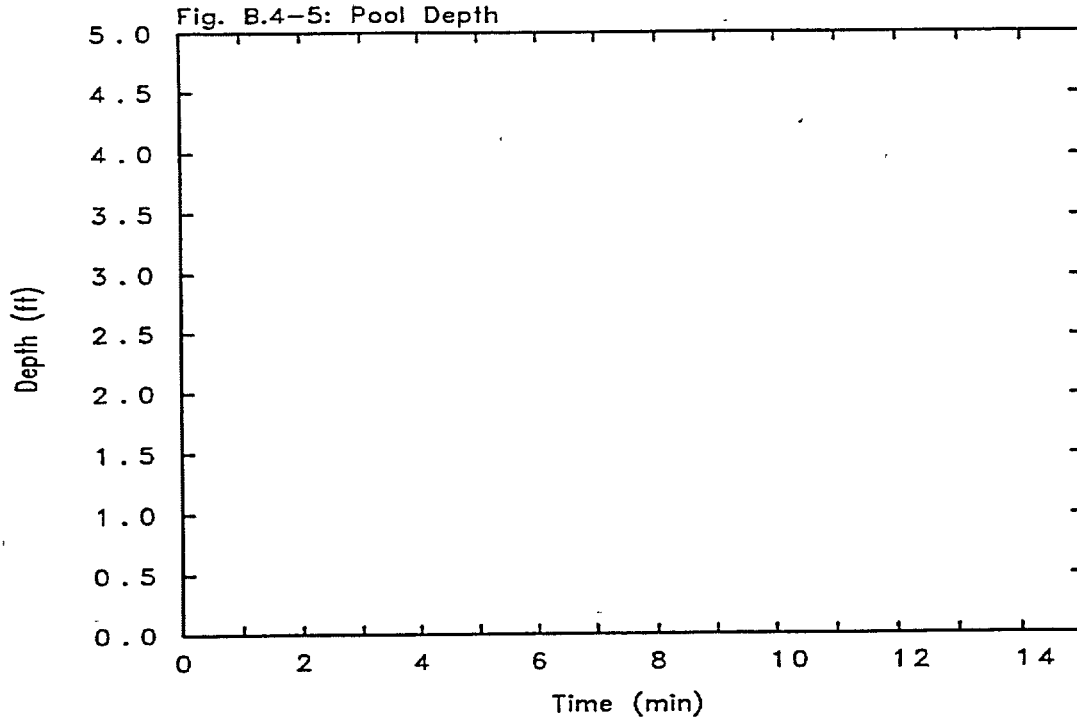
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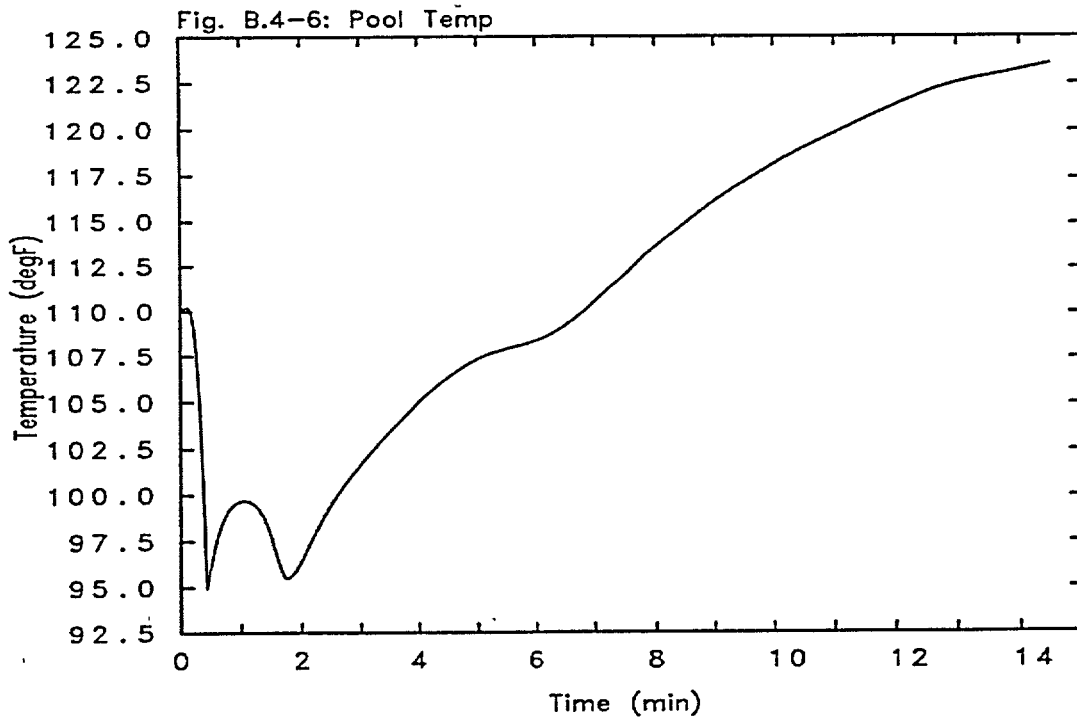
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 CVH-P.012



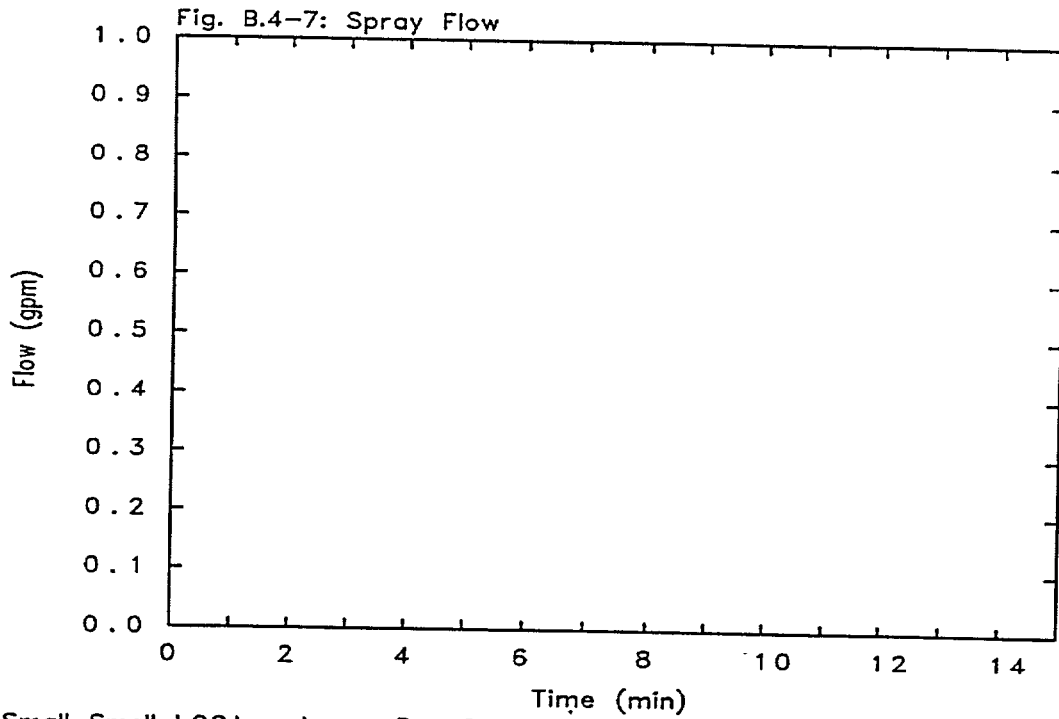
Small-Small LOCA - Large Dry Containment
 HQJPEJZNM 08/17/99 15:49:23 MELCOR
 CVH-TVAP.012



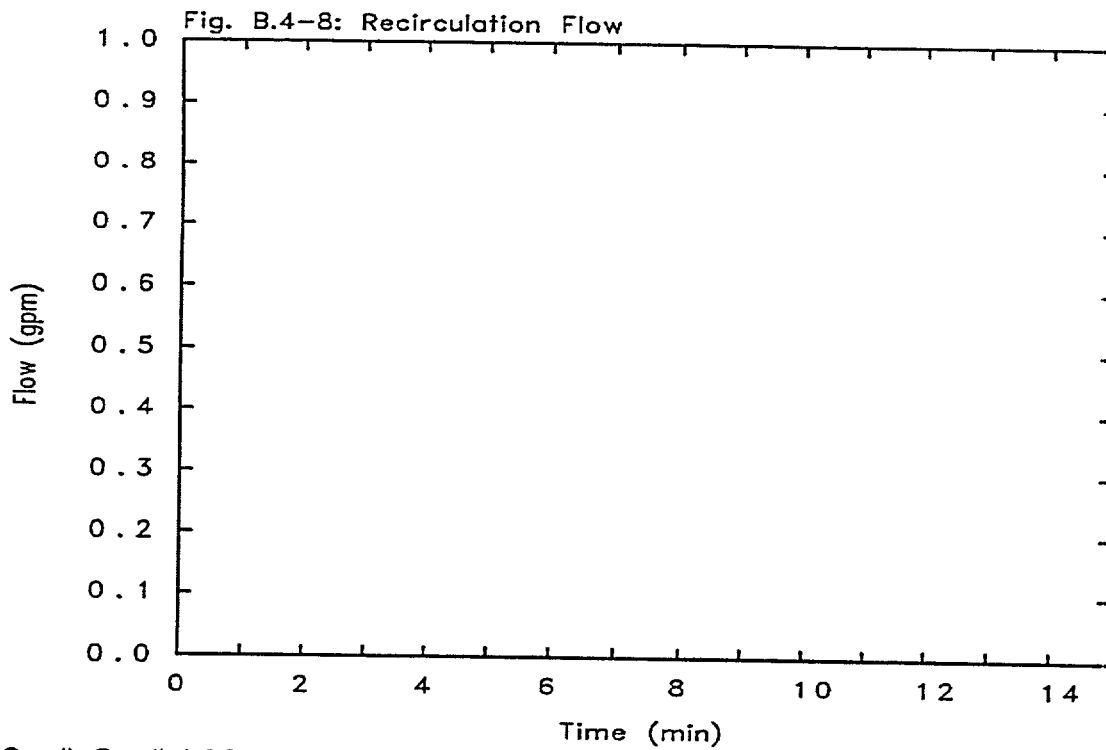
Small-Small LOCA - Large Dry Containment
 HQJPEJZNM 08/17/99 15:49:23 MELCOR
 CVH-LIQLEV.011



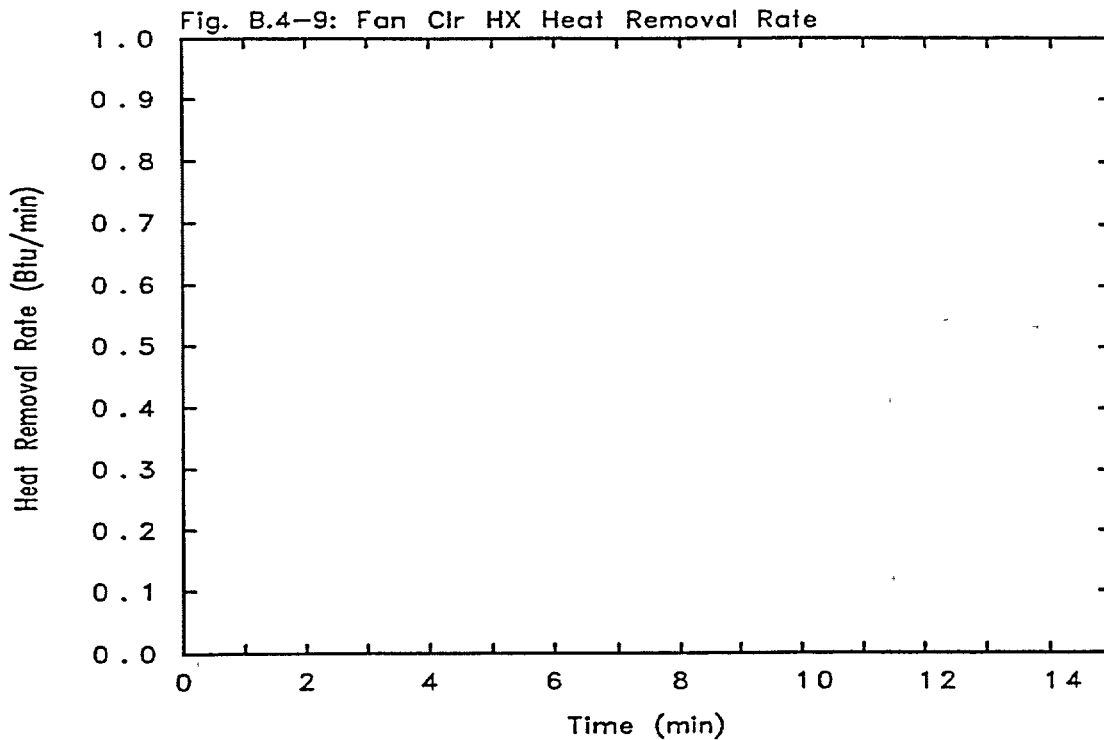
Small-Small LOCA - Large Dry Containment
 HQJPEJZNM 08/17/99 15:49:23 MELCOR
 CVH-TLIQ.011



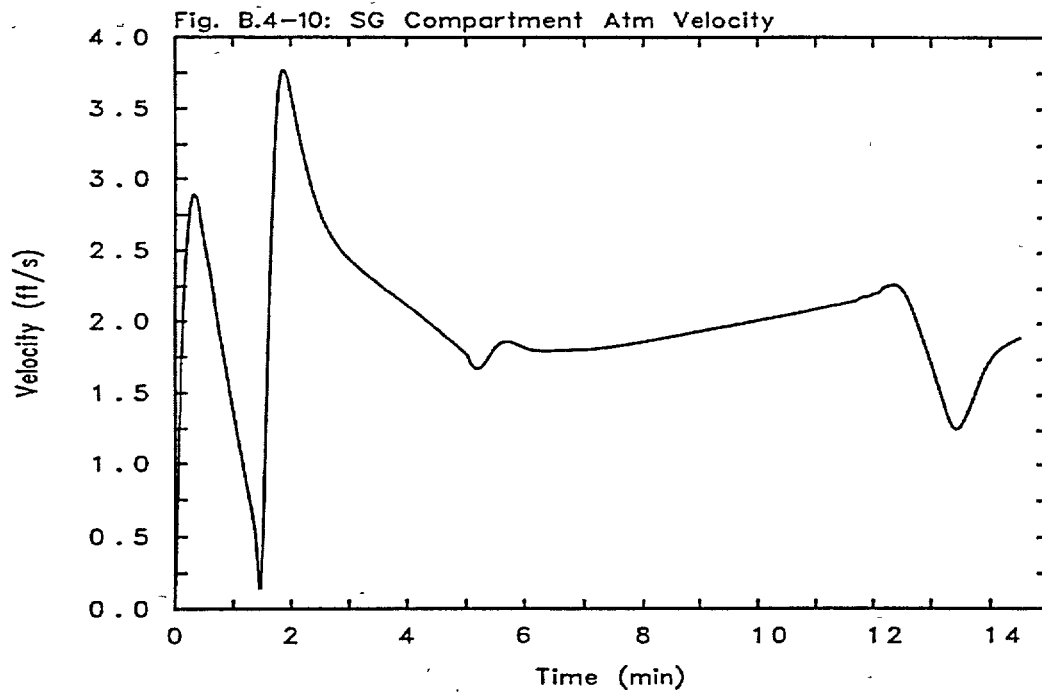
Small-Small LOCA - Large Dry Containment
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 SPR-FL.1



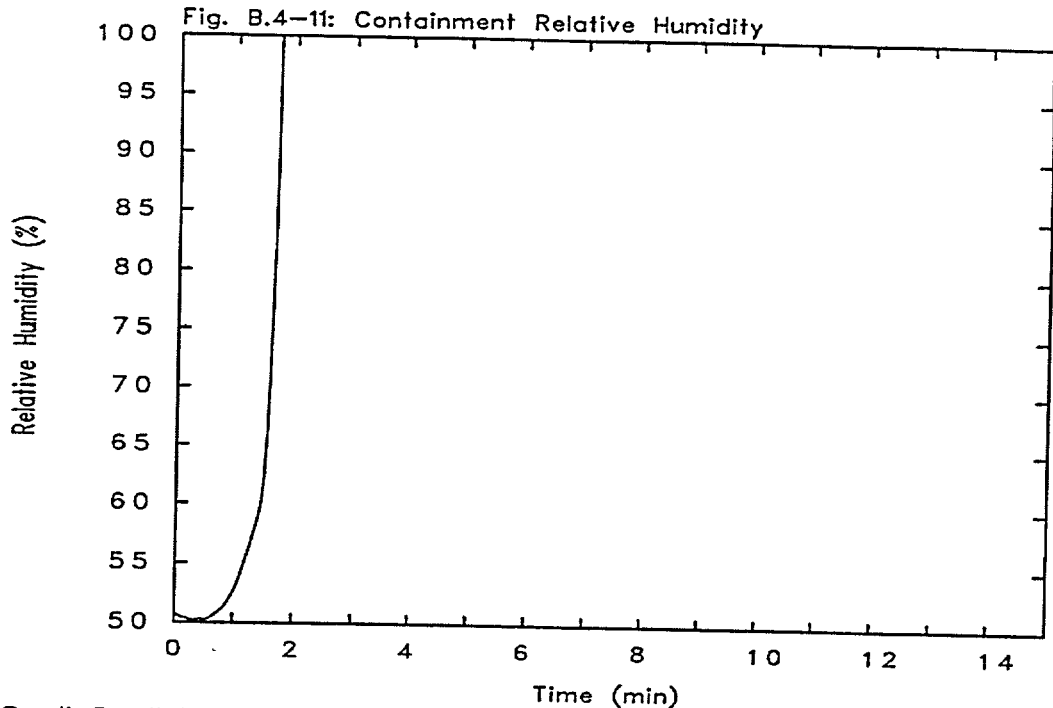
Small-Small LOCA - Large Dry Containment
 HQJPEJZNM 08/17/99 15:49:23 MELCOR
 CFVALU.542



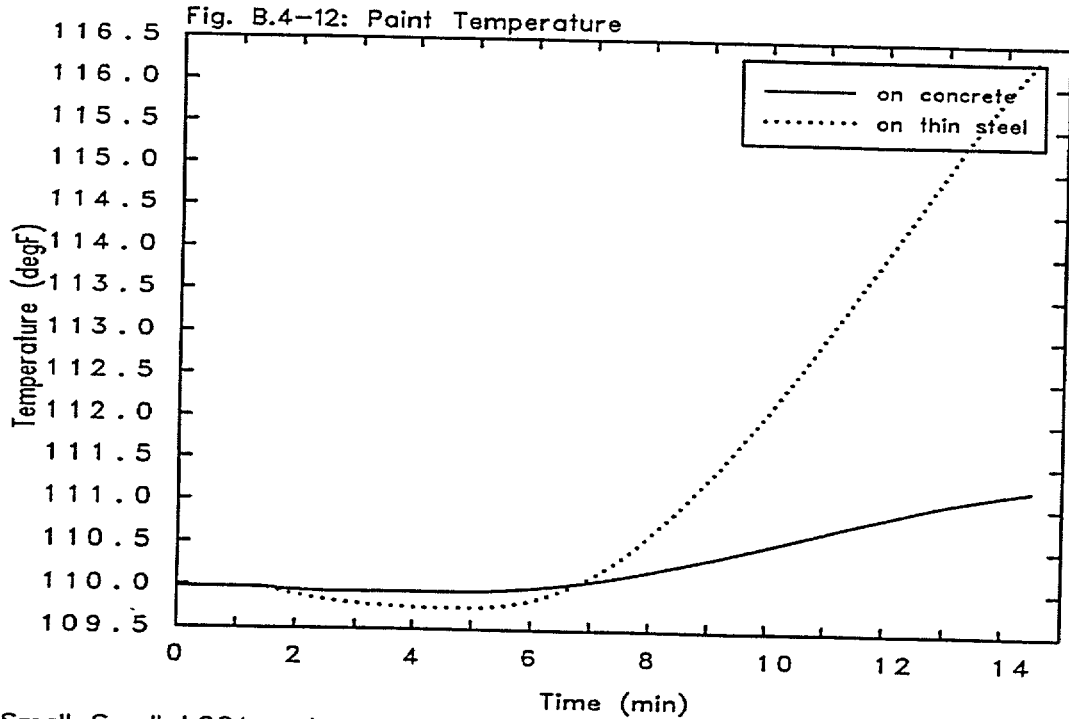
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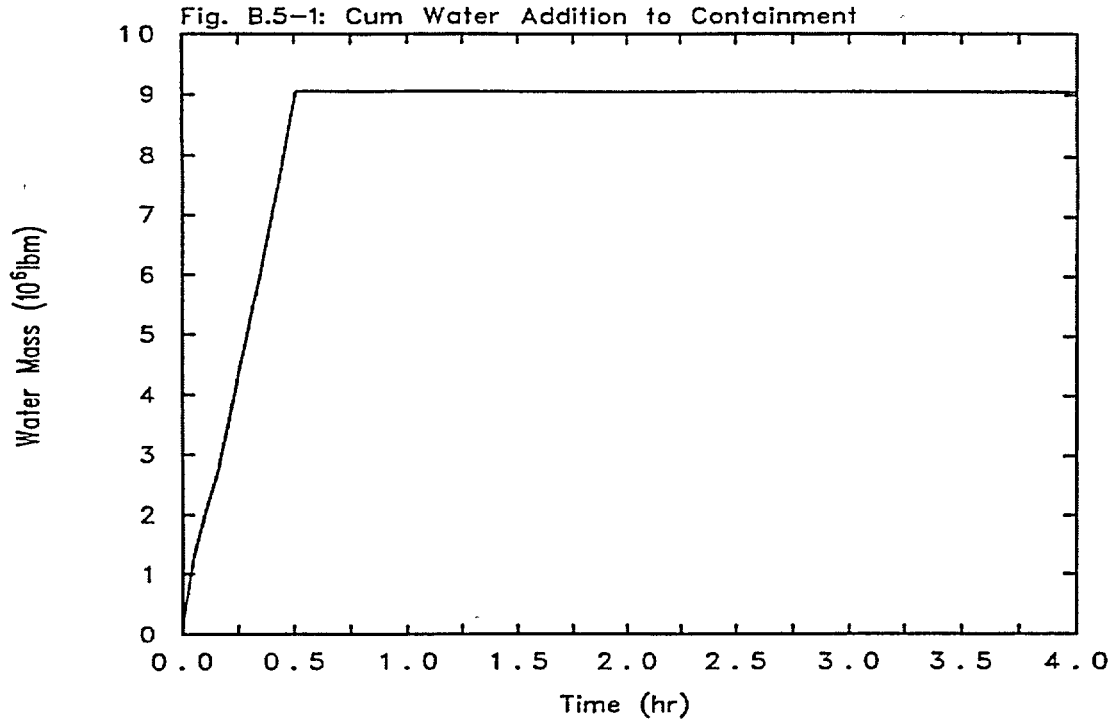
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 HQJPEJZNM 08/17/99 15:49:23 MELCOR
 CVH-VELVAPCV.002



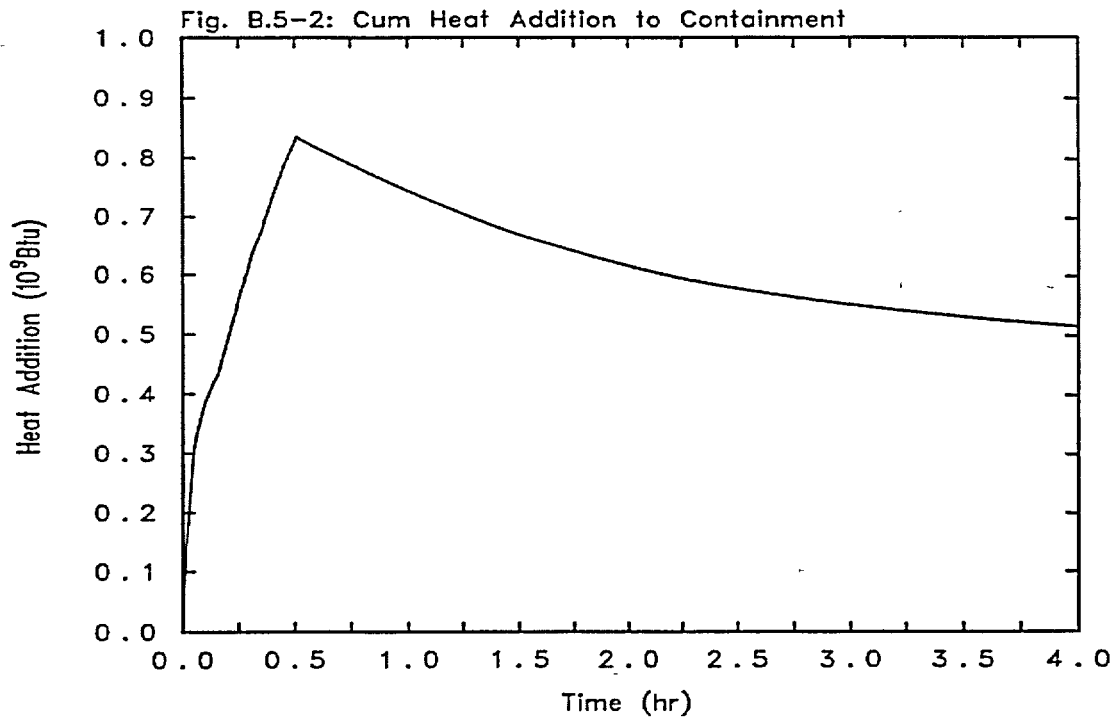
Small-Small LOCA - Large Dry Containment
 HQJPEJZNM 08/17/99 15:49:23 MELCOR
 CFVALU.536



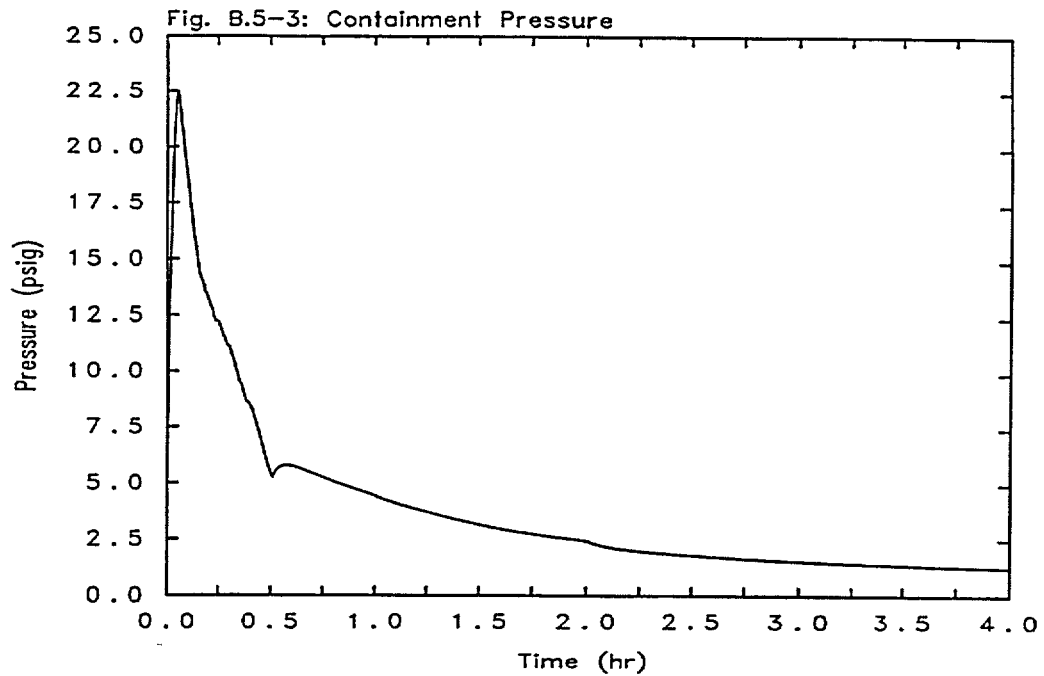
Small-Small LOCA - Large Dry Containment
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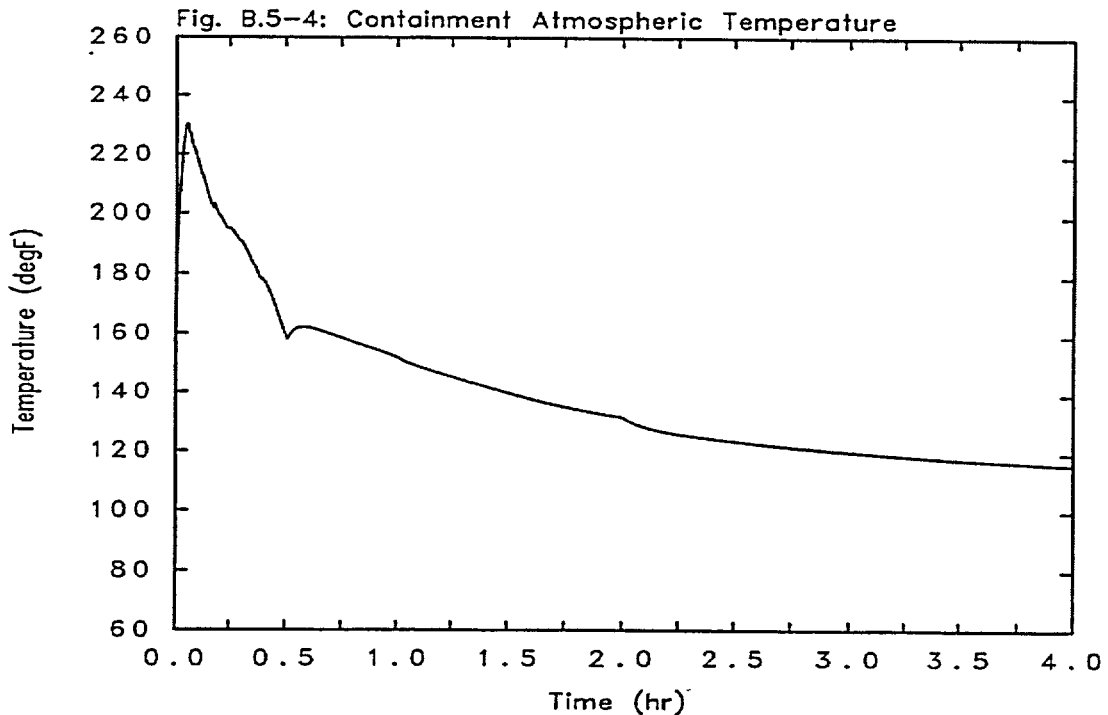
PRZR Surge Line Break - Large Dry Containment
 HLJODZQNM 08/12/99 14:44:55 MELCOR
 CFVALU.538



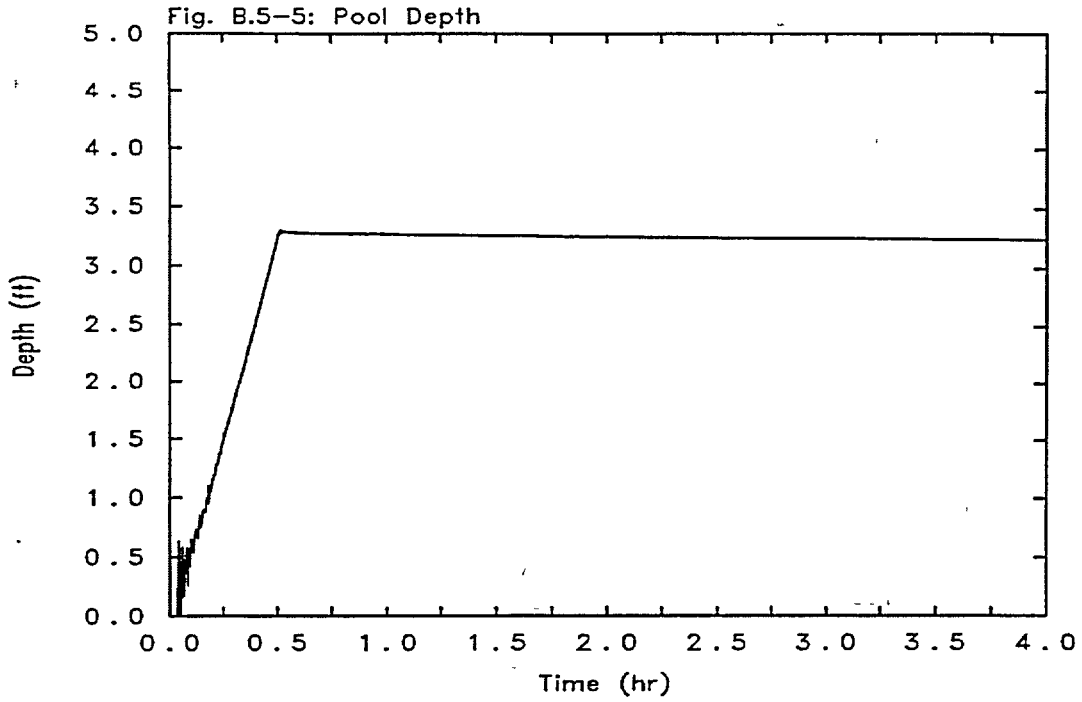
PRZR Surge Line Break - Large Dry Containment
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 CFVALU.546



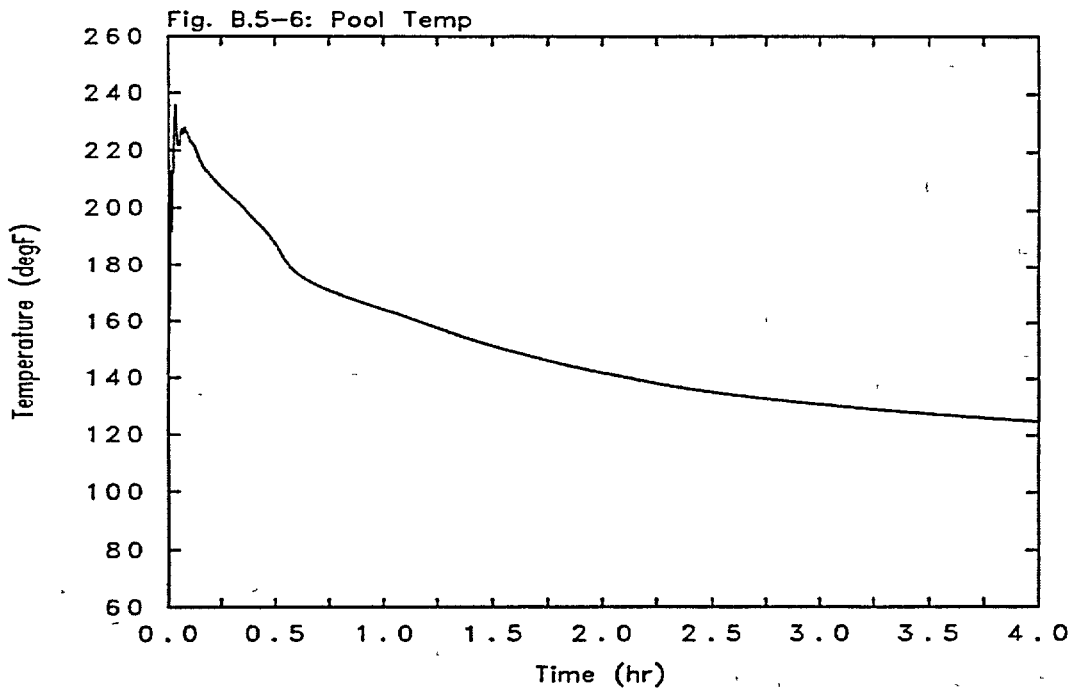
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 HLJODZQNM 08/12/99 14:44:55 MELCOR
 CVH-P.012



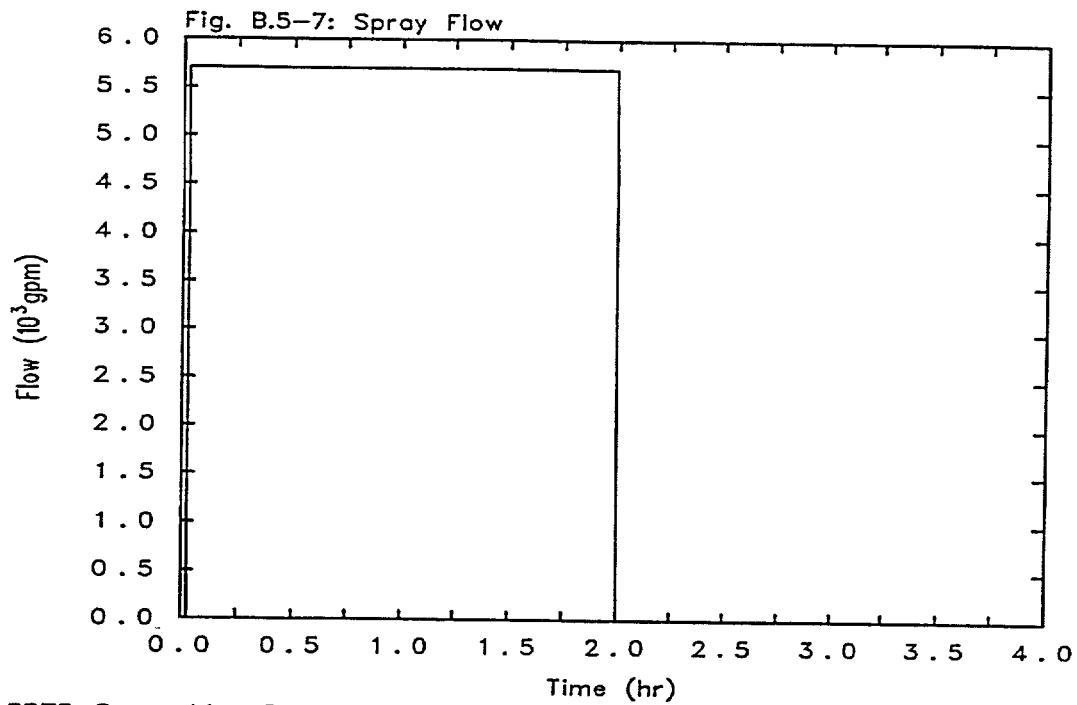
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 HLJODZQNM 08/12/99 14:44:55 MELCOR
 CVH-TVAP.012



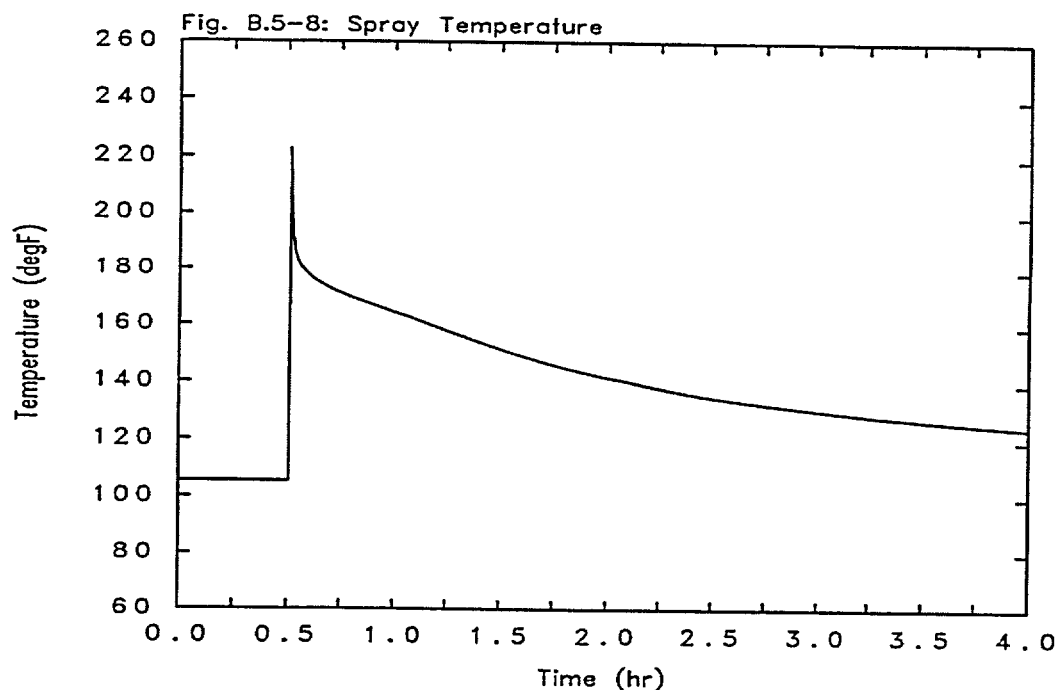
PRZR Surge Line Break - Large Dry Containment
 HLJODZQNM 08/12/99 14:44:55 MELCOR
 CVH-LIQLEV.011



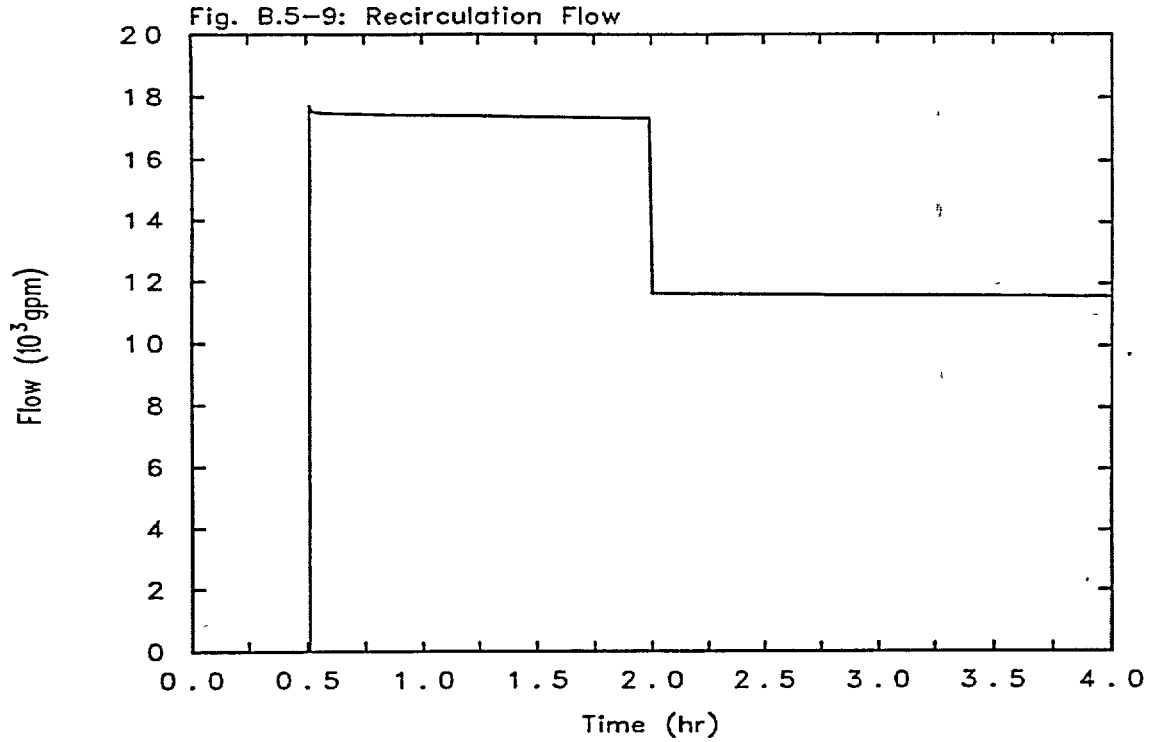
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 HLJODZQNM 08/12/99 14:44:55 MELCOR
 CVH-TLIQ.011



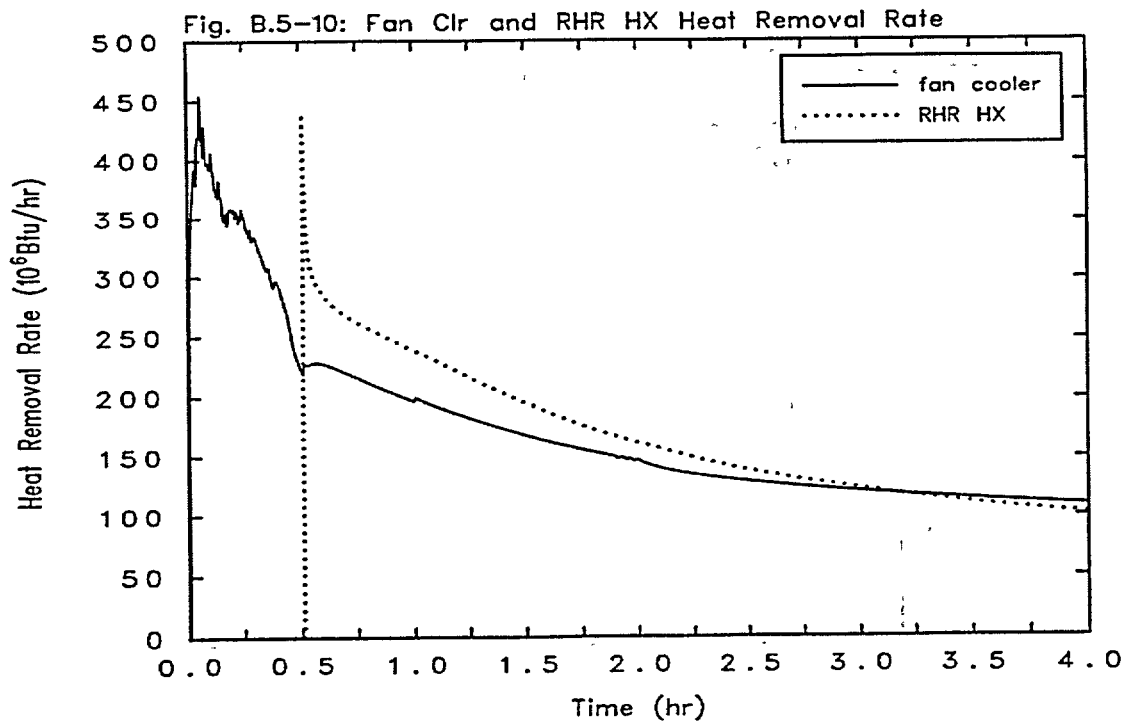
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 HLJODZQNM 08/12/99 14:44:55 MELCOR
 SPR-FL.1



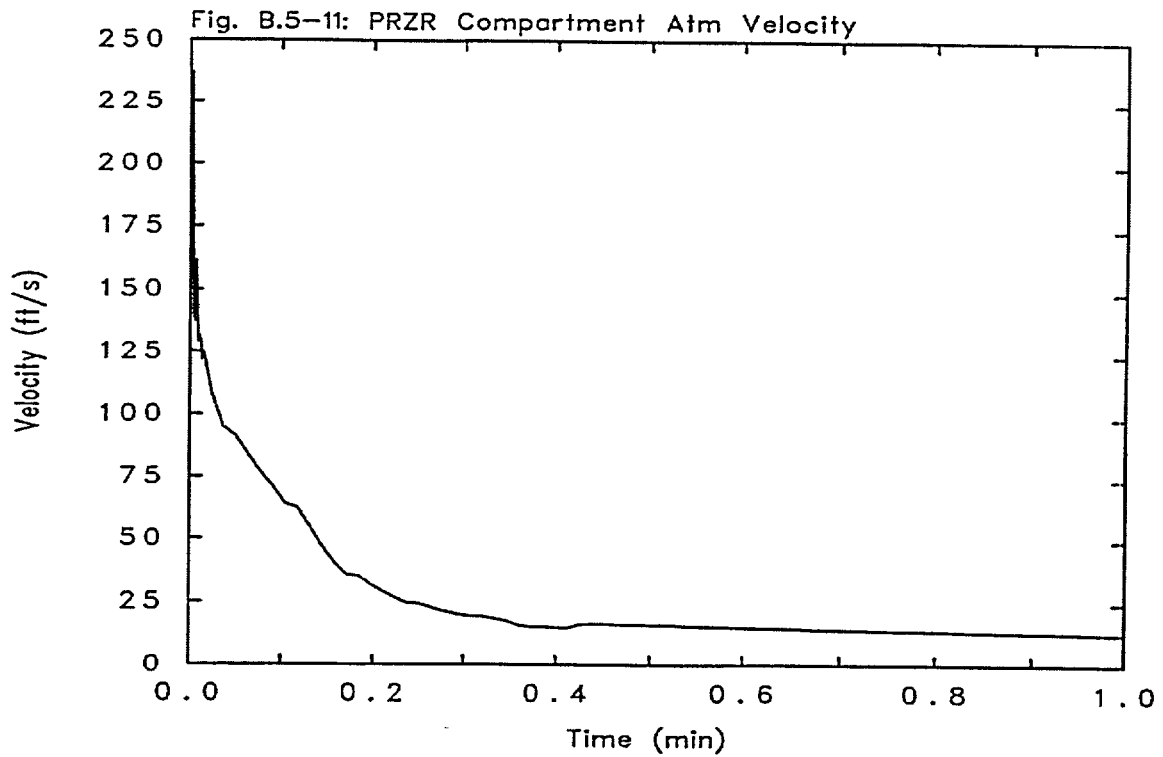
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 HLJODZQNM 08/12/99 14:44:55 MELCOR
 CFVALU.404



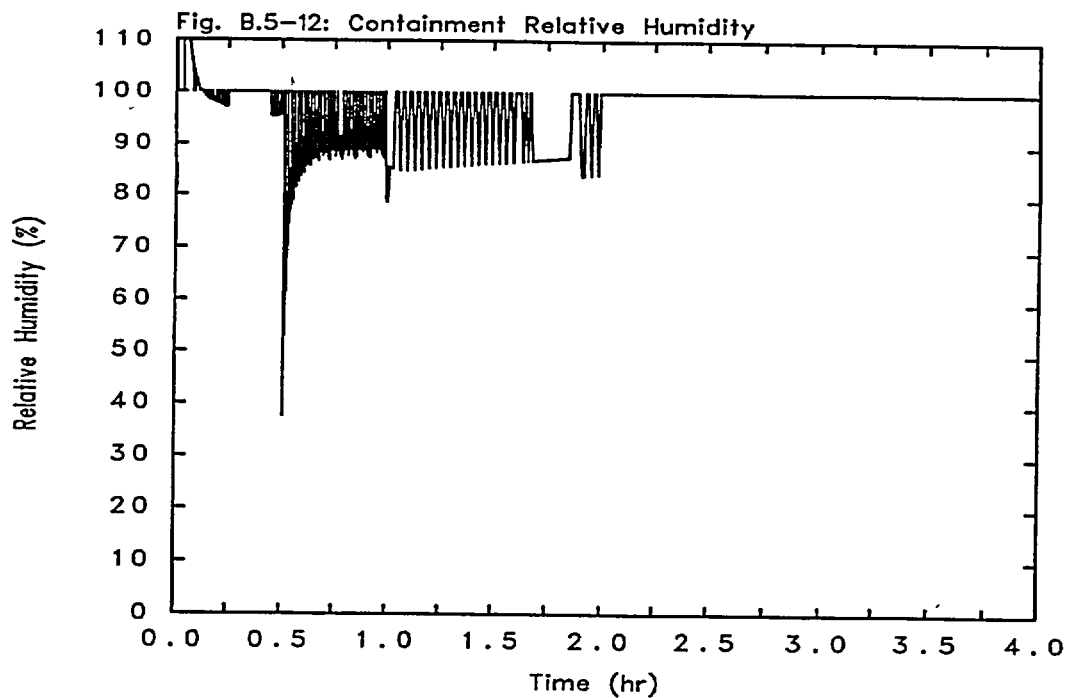
PRZR Surge Line Break - Large Dry Containment
 HLJODZQNM 08/12/99 14:44:55 MELCOR
 CFVALU.542



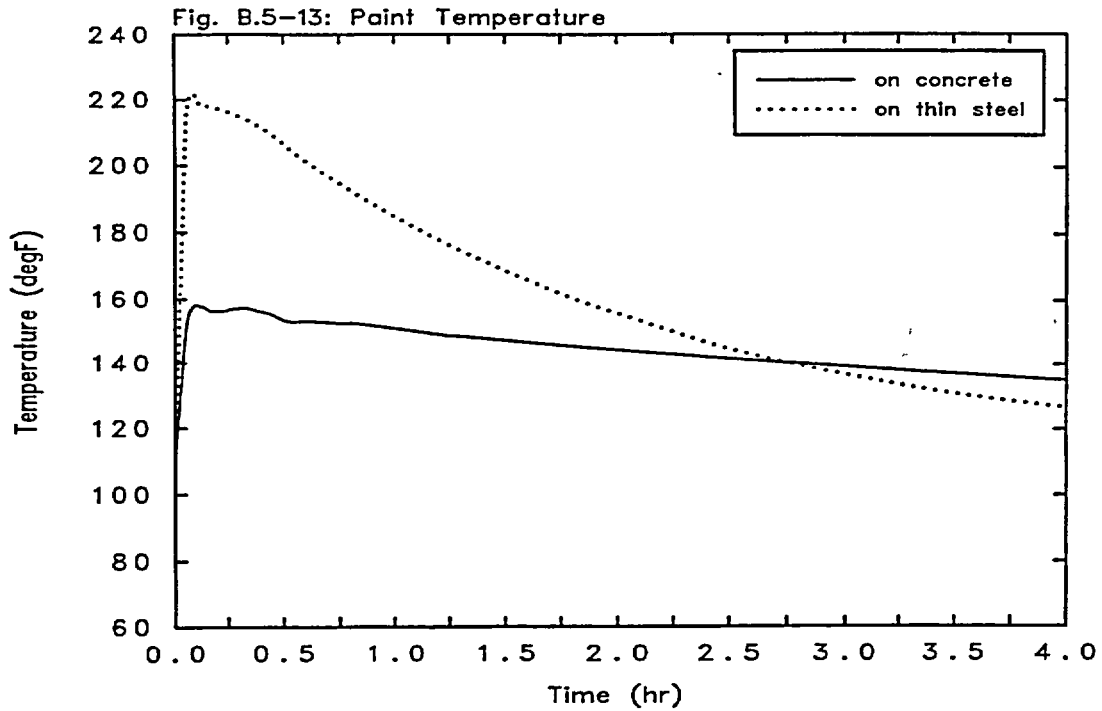
PRZR Surge Line Break - Large Dry Containment
 HLJODZQNM 08/12/99 14:44:55 MELCOR



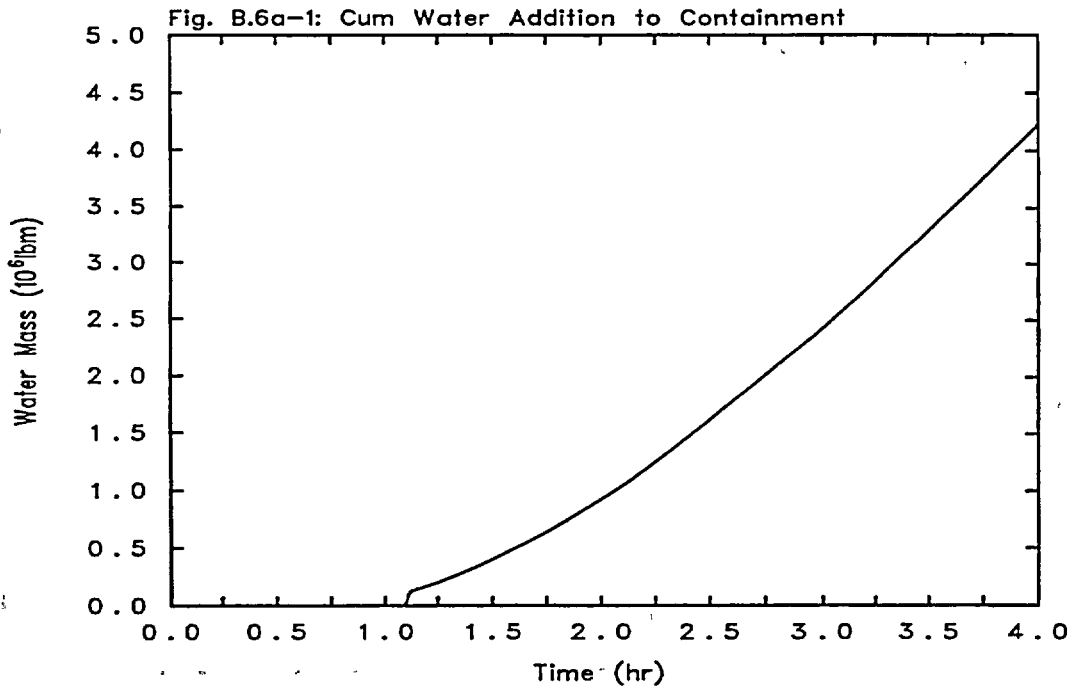
PRZR Surge Line Break - Large Dry Containment
 HLJODZQNM 08/12/99 14:44:55 MELCOR
 CVH-VELVAPCV.002



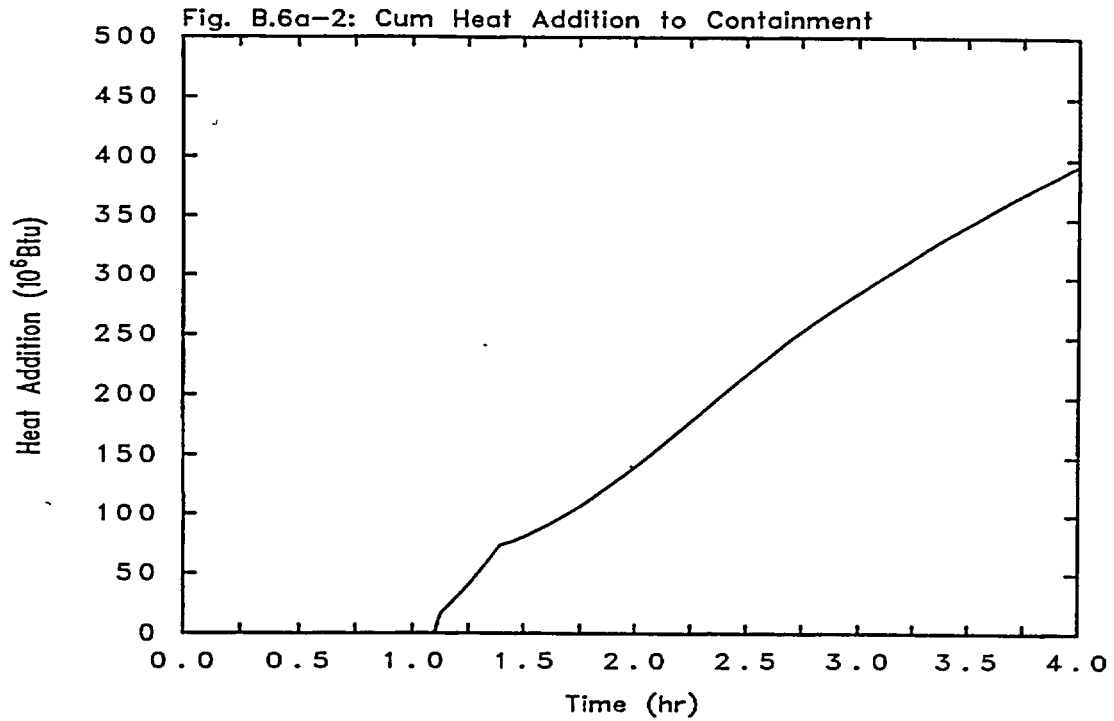
PRZR Surge Line Break - Large Dry Containment
 HLJODZQNM 08/12/99 14:44:55 MELCOR
 CFVALU.536



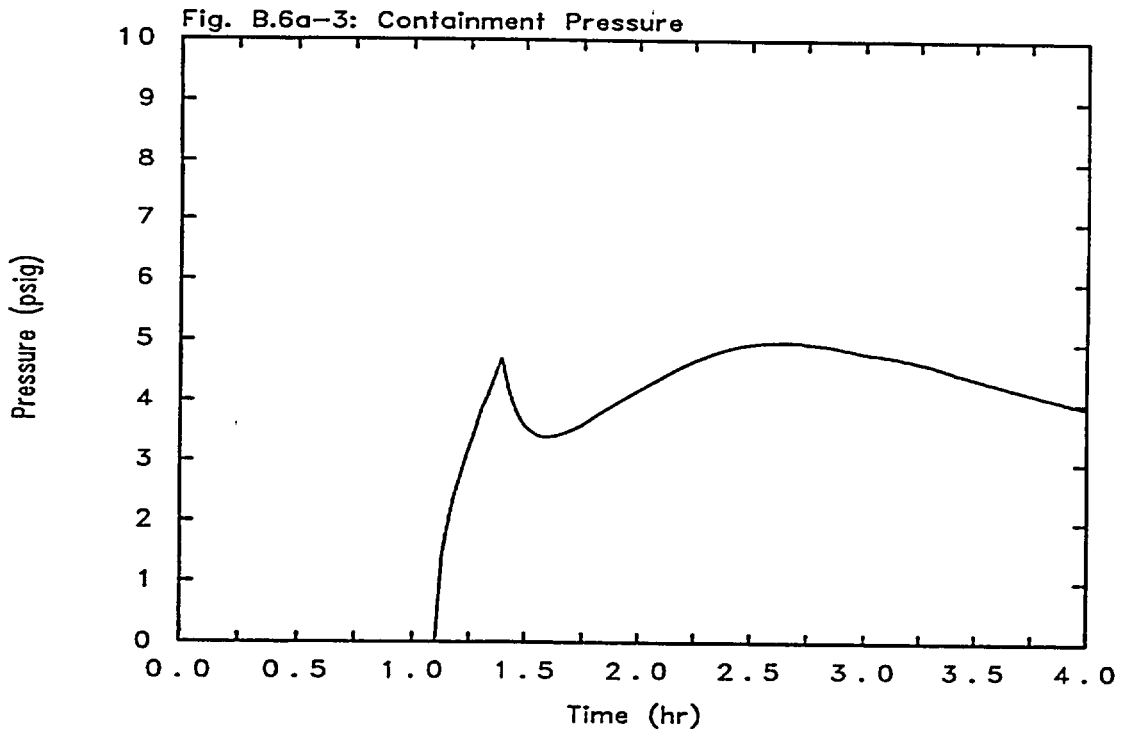
PRZR Surge Line Break - Large Dry Containment
 HLJODZQNM 08/12/99 14:44:55 MELCOR



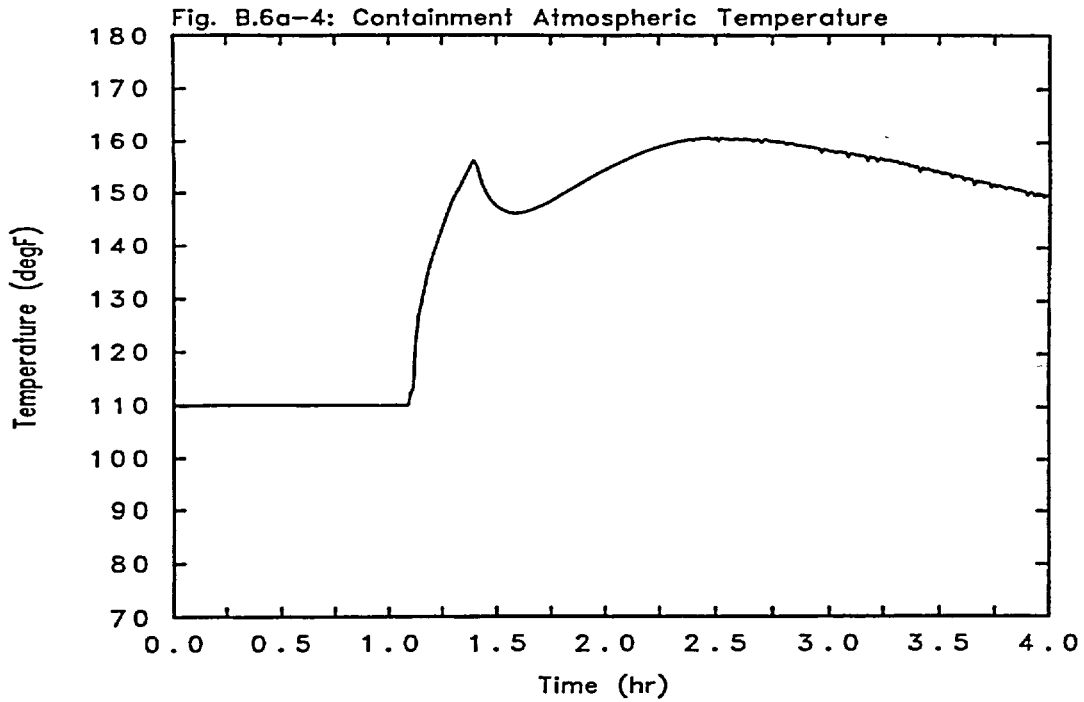
LOSP, LOFW, PORV Held Open - Large Dry Containment
 HLJQDCCNM 08/12/99 16:34:42 MELCOR PC
 CFVALU.538



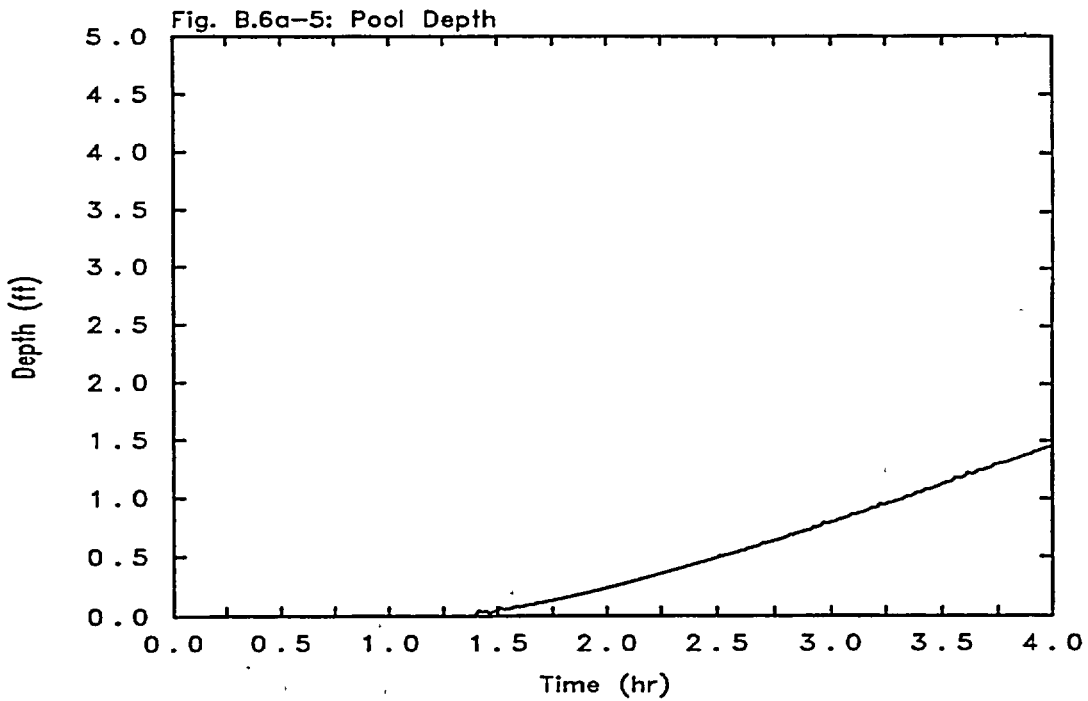
LOSP, LOFW, PORV Held Open - Large Dry Containment
 HLJQCCNM 08/12/99 16:34:42 MELCOR PC
 CFVALU.546



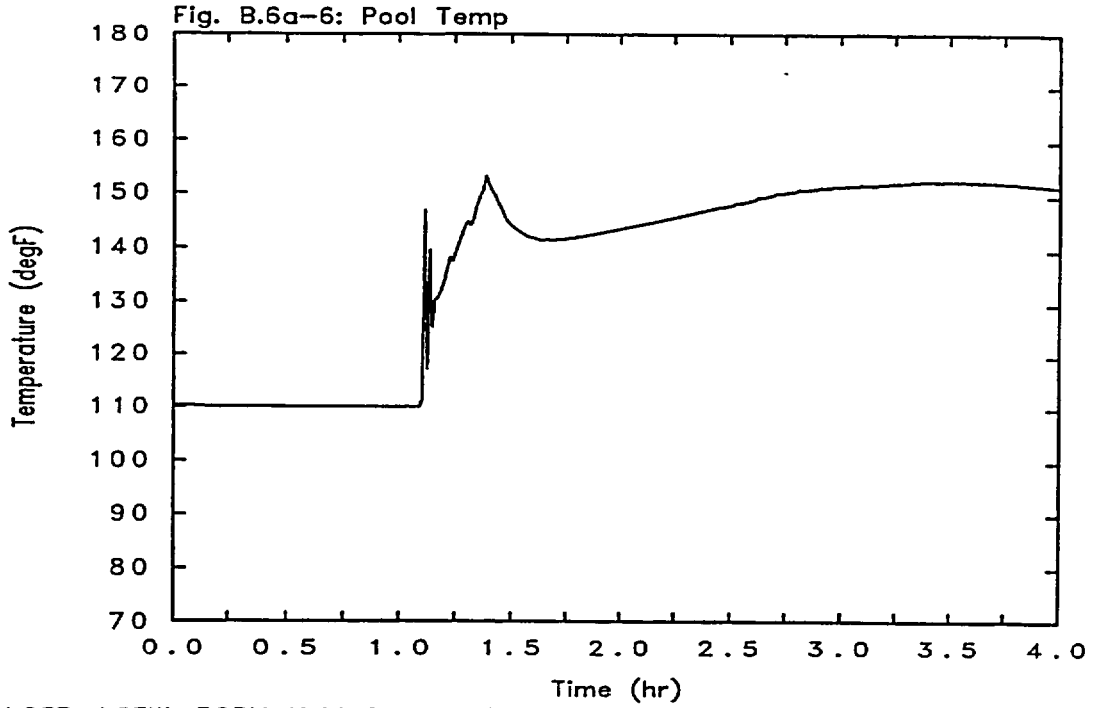
LOSP, LOFW, PORV Held Open - Large Dry Containment
 HLJQCCNM 08/12/99 16:34:42 MELCOR PC
 CVH-P.012



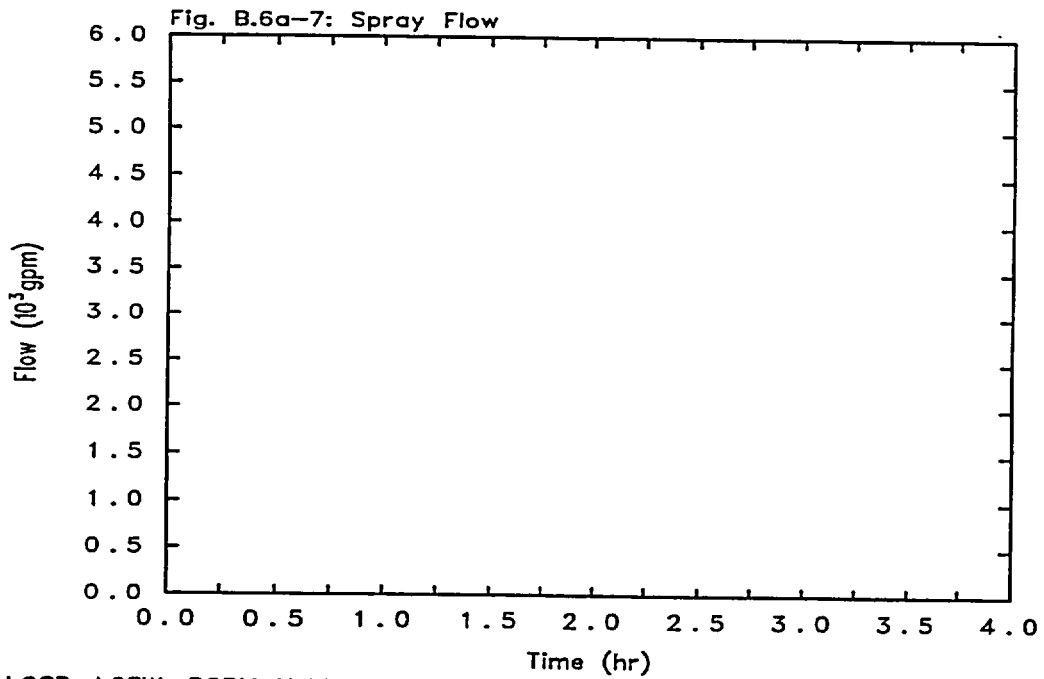
LOSP, LOFW, PORV Held Open - Large Dry Containment
 HLJQCCNM 08/12/99 16:34:42 MELCOR PC
 CVH-TVAP.012



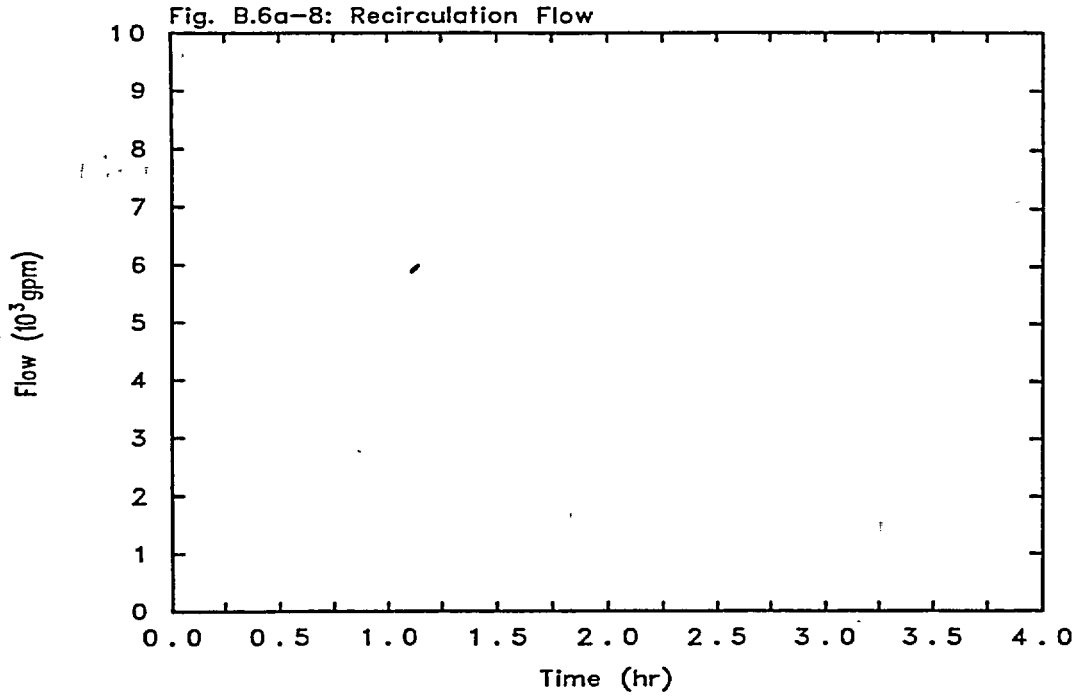
LOSP, LOFW, PORV Held Open - Large Dry Containment
 HLJQCCNM 08/12/99 16:34:42 MELCOR PC
 CVH-LIQLEV.011



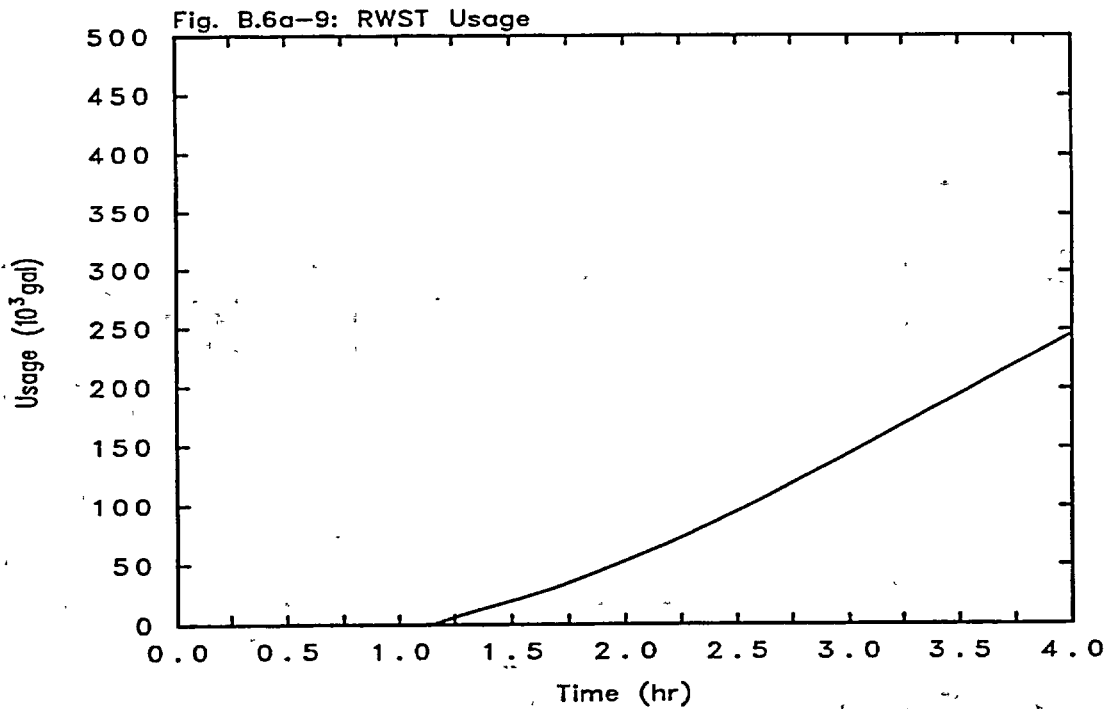
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 HLJQCCNM 08/12/99 16:34:42 MELCOR PC
 CVH-TLIQ.011



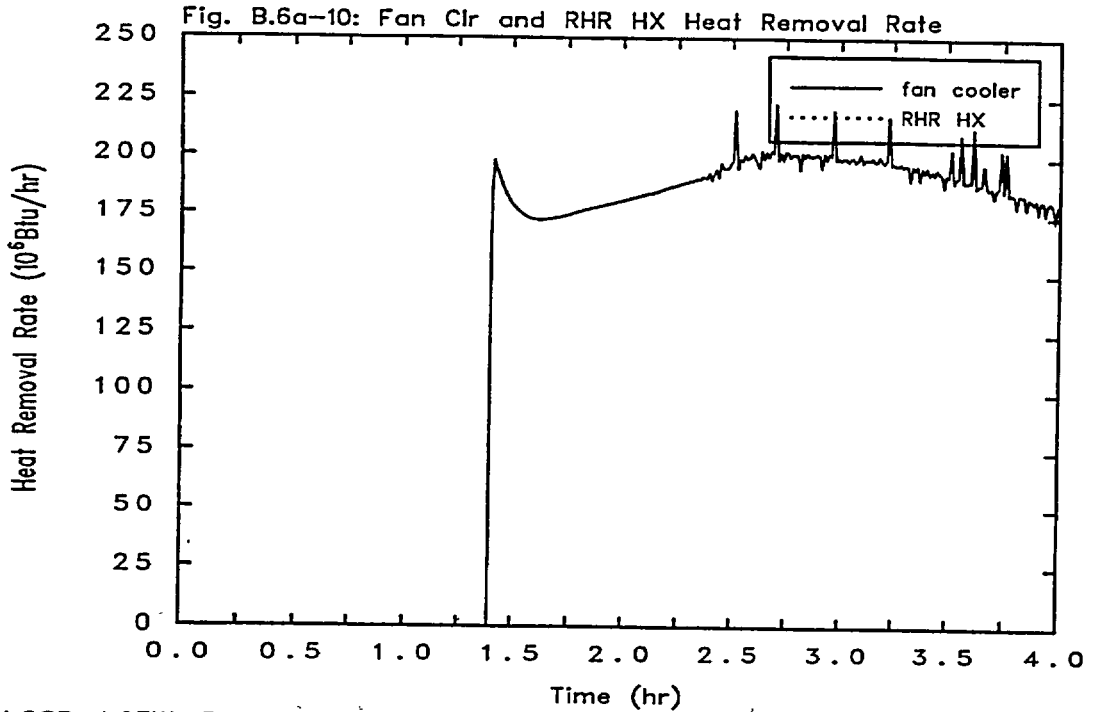
LOSP, LOFW, PORV Held Open - Large Dry Containment
 HLJQCCNM 08/12/99 16:34:42 MELCOR PC
 SPR-FL.1



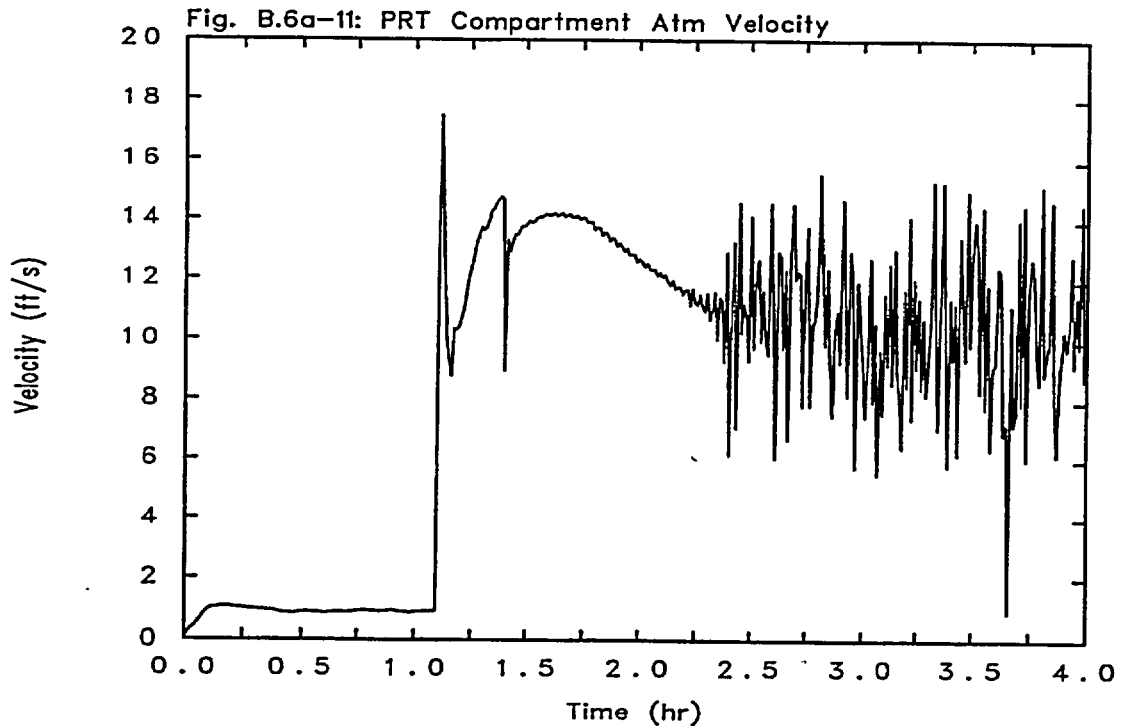
LOSP, LOFW, PORV Held Open - Large Dry Containment
 HLJQCCNM 08/12/99 16:34:42 MELCOR PC
 CFVALU.542



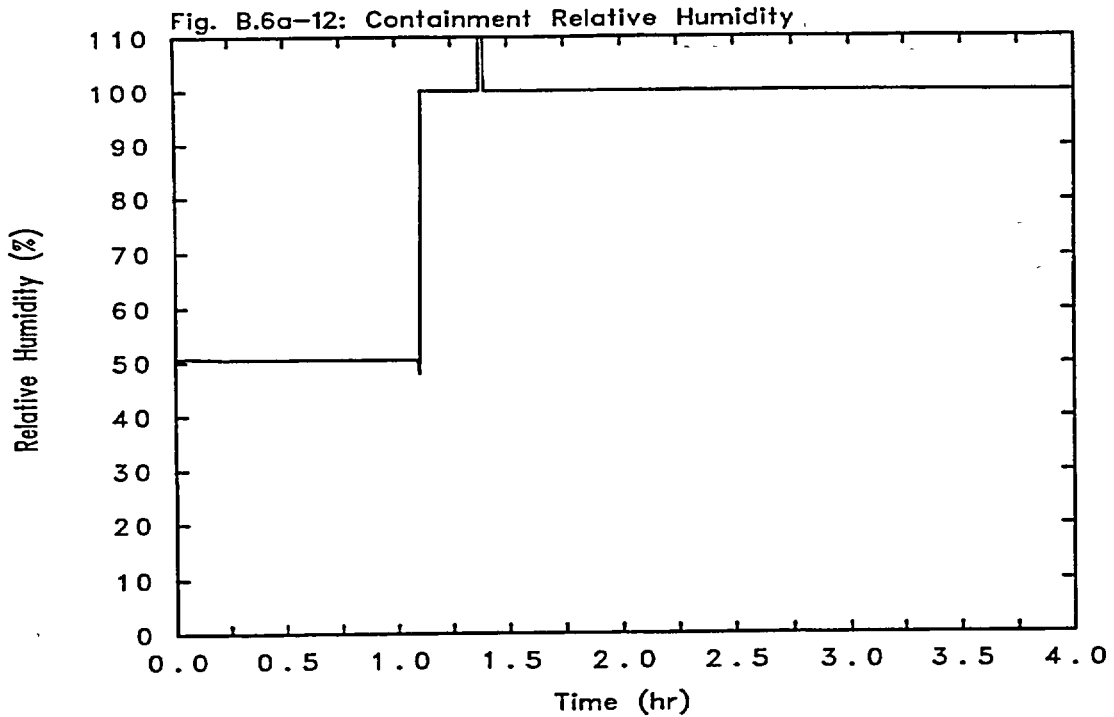
LOSP, LOFW, PORV Held Open - Large Dry Containment
 HLJQCCNM 08/12/99 16:34:42 MELCOR PC
 CFVALU.216



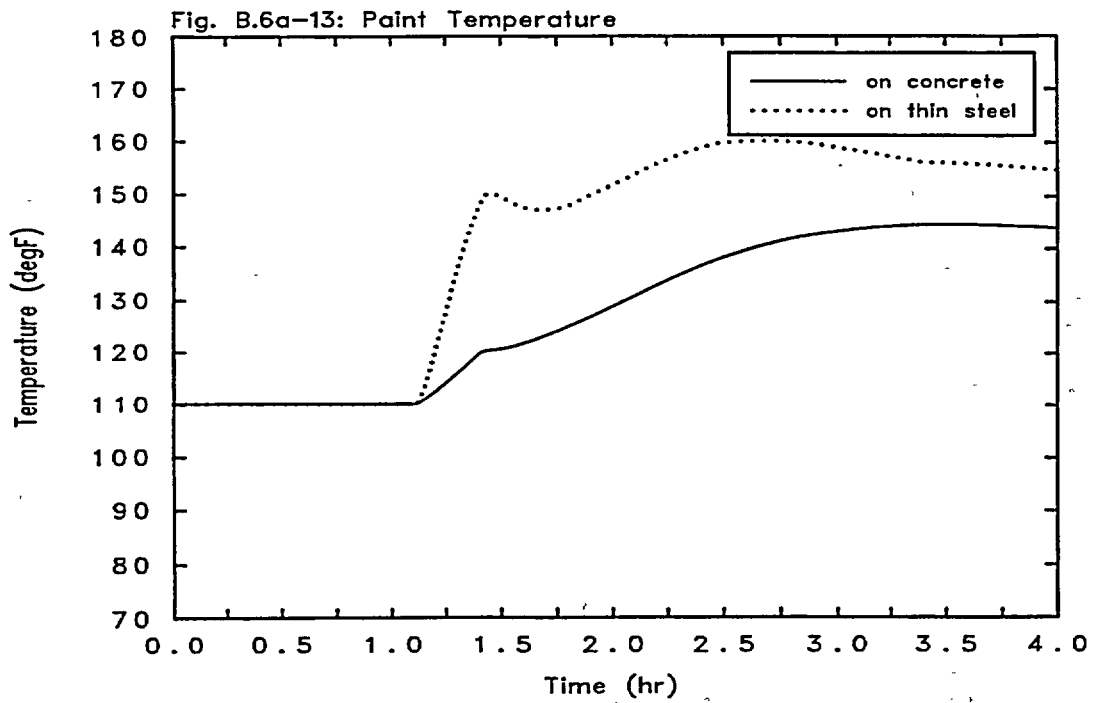
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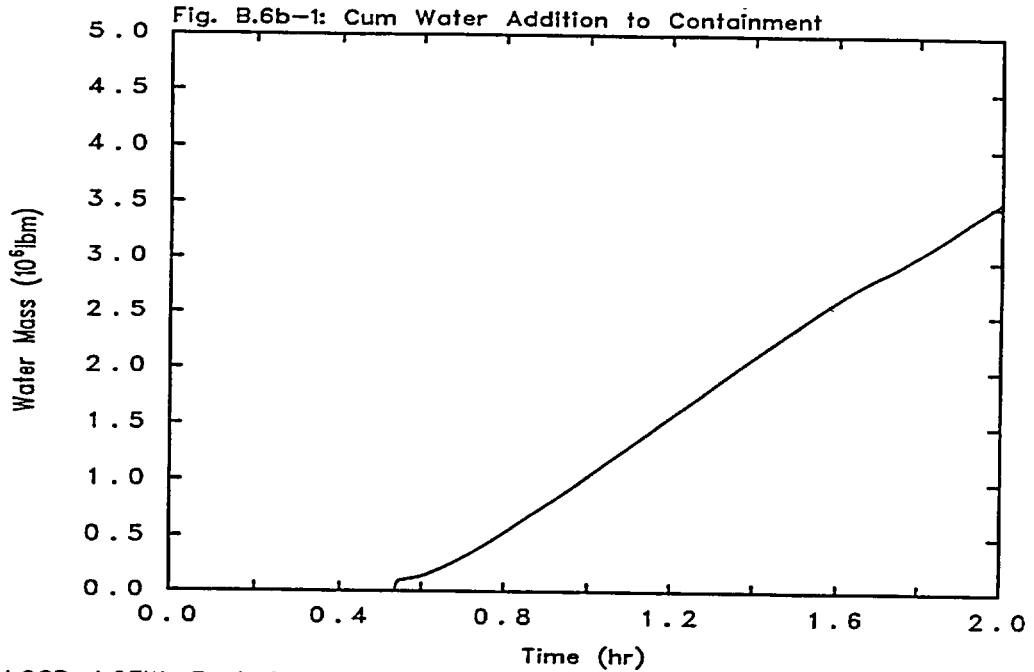
LOSP, LOFW, PORV Held Open - Large Dry Containment
 HLJQDCCNM 08/12/99 16:34:42 MELCOR PC
 CVH-VELVAPCV.002



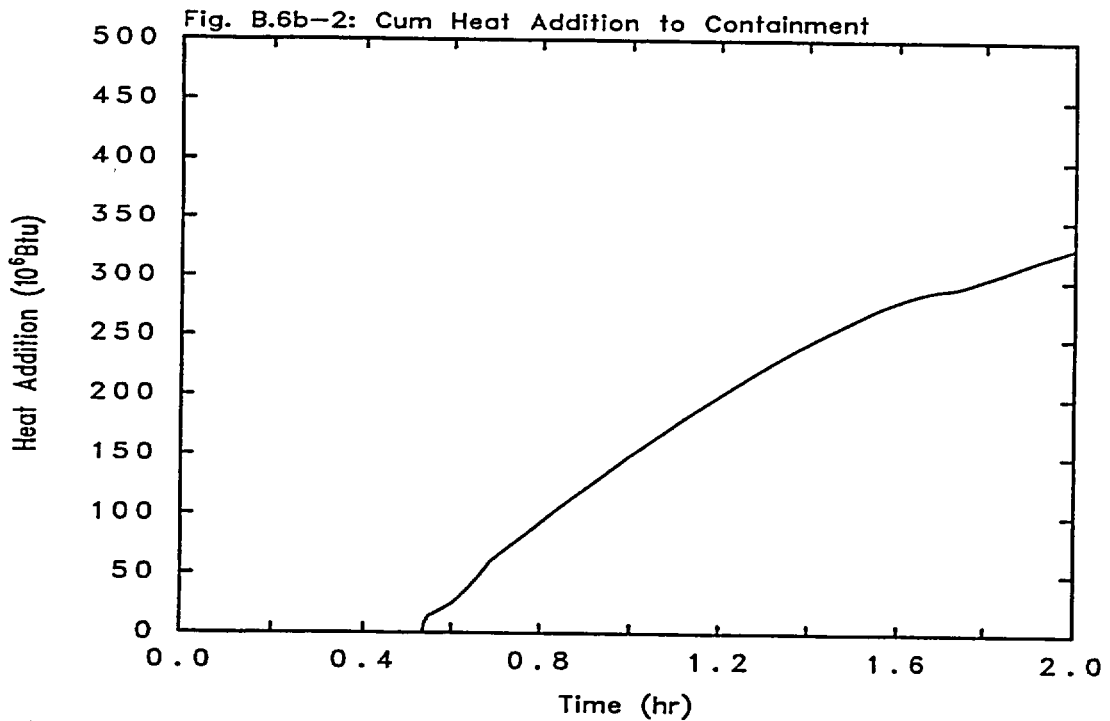
LOSP, LOFW, PORV Held Open - Large Dry Containment
 HLJQCCNM 08/12/99 16:34:42 MELCOR PC
 CFVALU.536



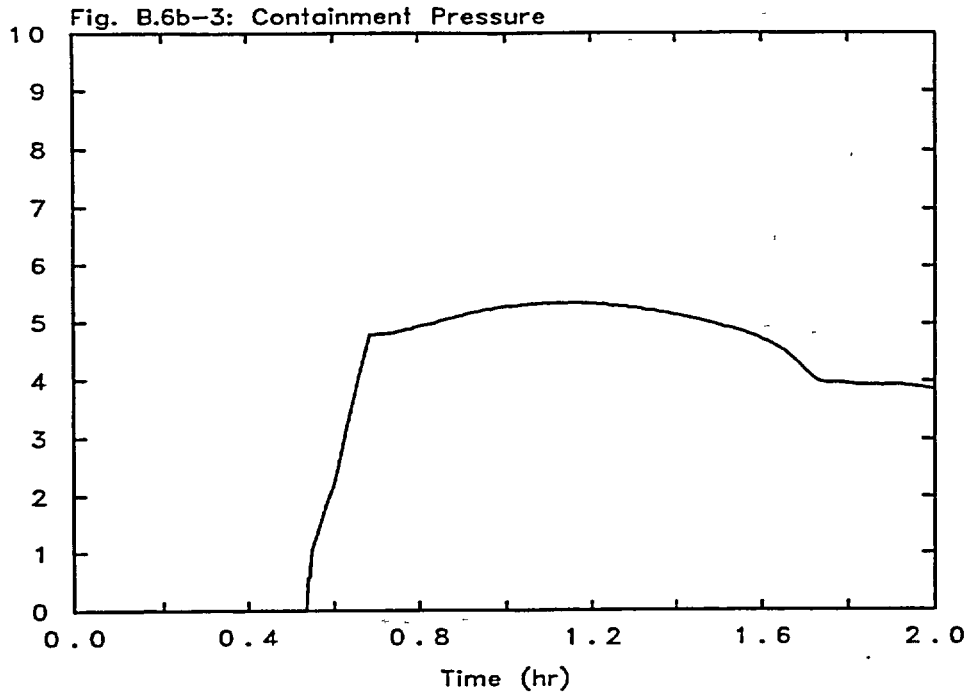
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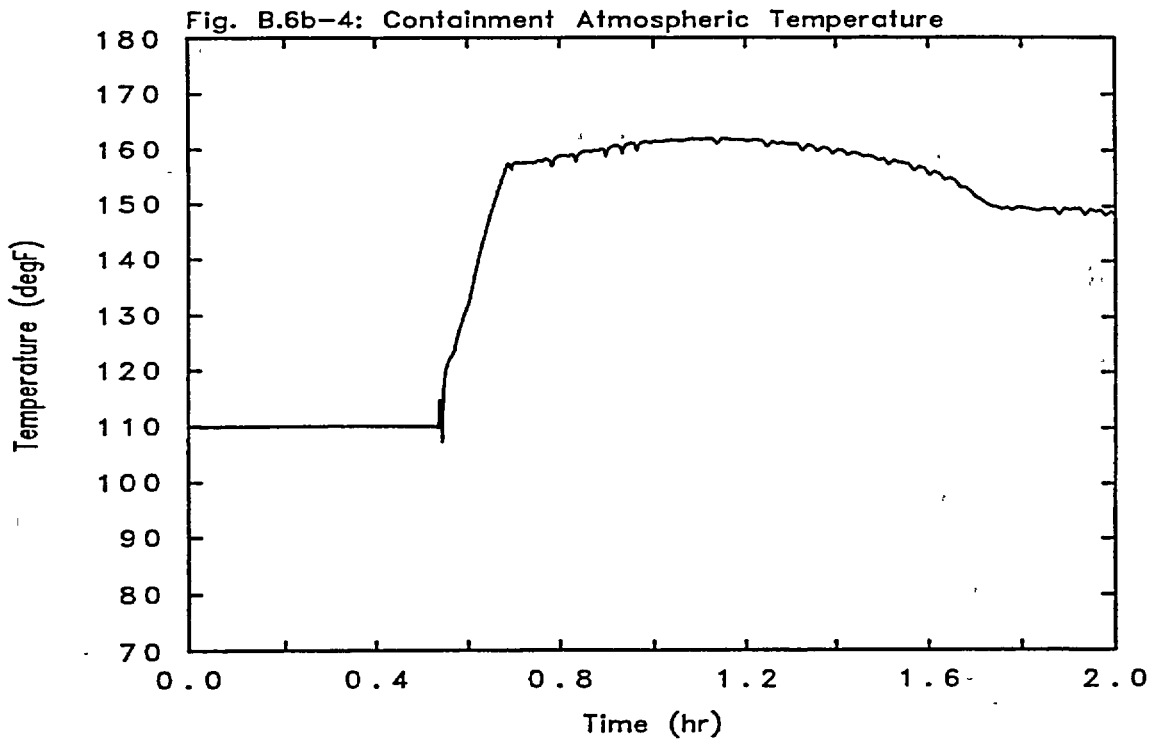
LOSP, LOFW, Fast Cooldown - Large Dry Containment
 HMJKDPLNM 08/13/99 10:40:29 MELCOR PC
 CFVALU.538



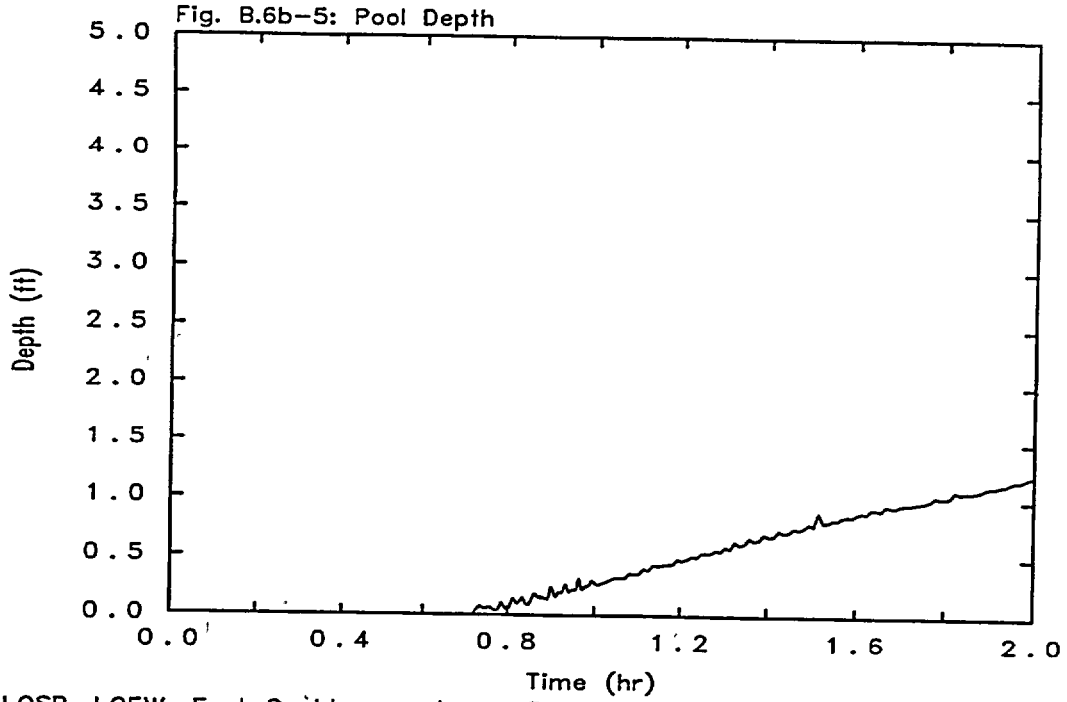
LOSP, LOFW, Fast Cooldown - Large Dry Containment
 HMJKDPLNM 08/13/99 10:40:29 MELCOR PC
 CFVALU.546



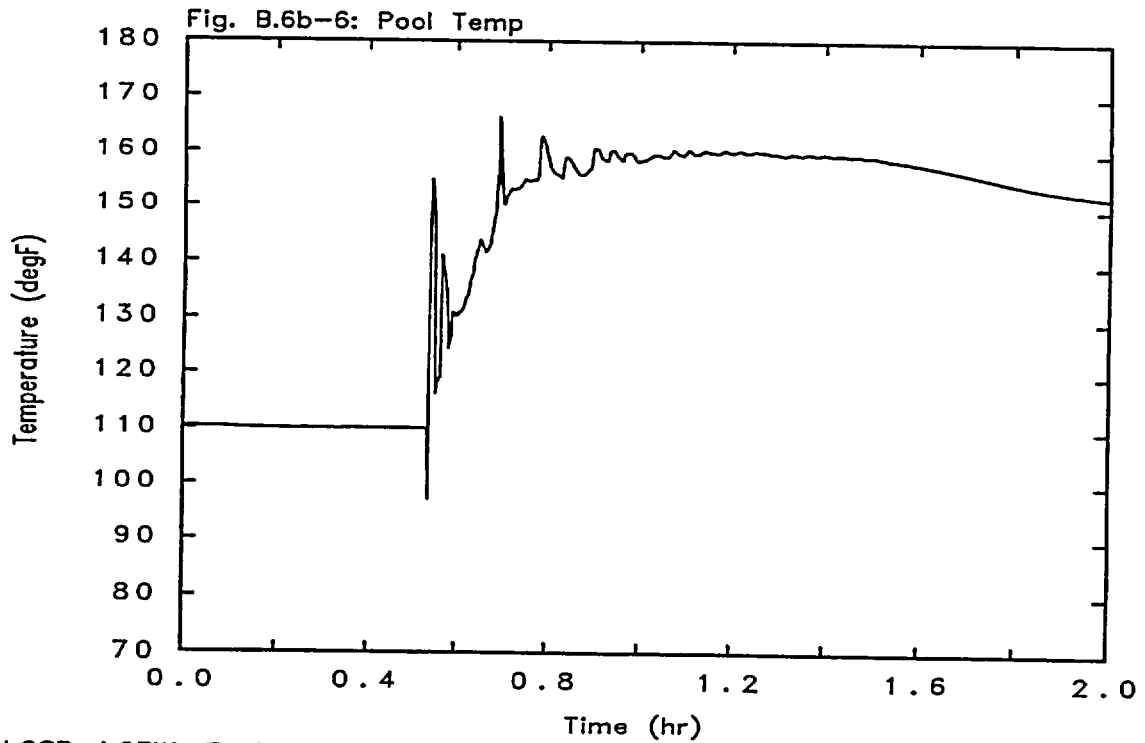
LOSP, LOFW, Fast Cooldown - Large Dry Containment
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 CVH-P.012



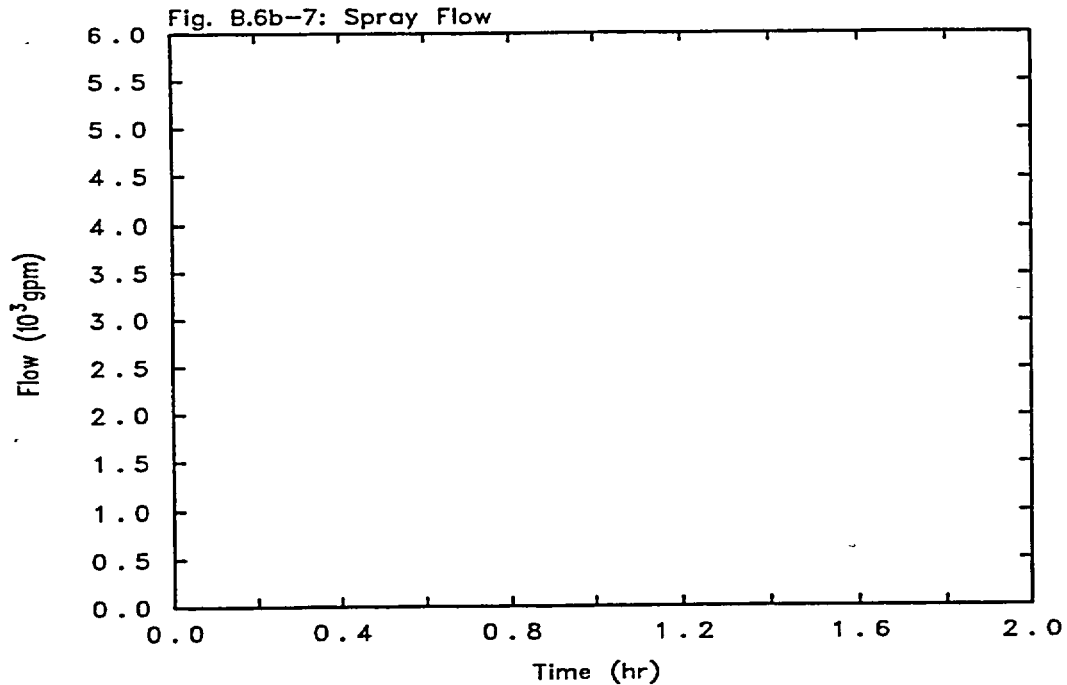
LOSP, LOFW, Fast Cooldown - Large Dry Containment
 HMJKDPLNM 08/13/99 10:40:29 MELCOR PC
 CVH-TVAP.012



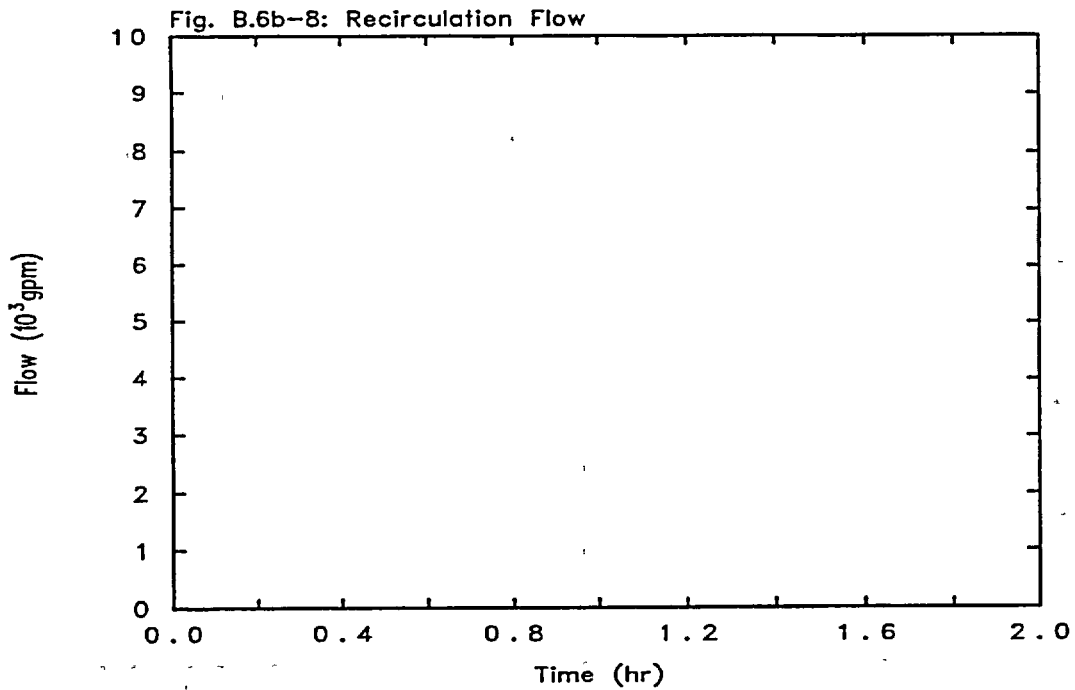
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 HMJKDPLNM 08/13/99 10:40:29 MELCOR PC
 CVH-LIQLEV.011



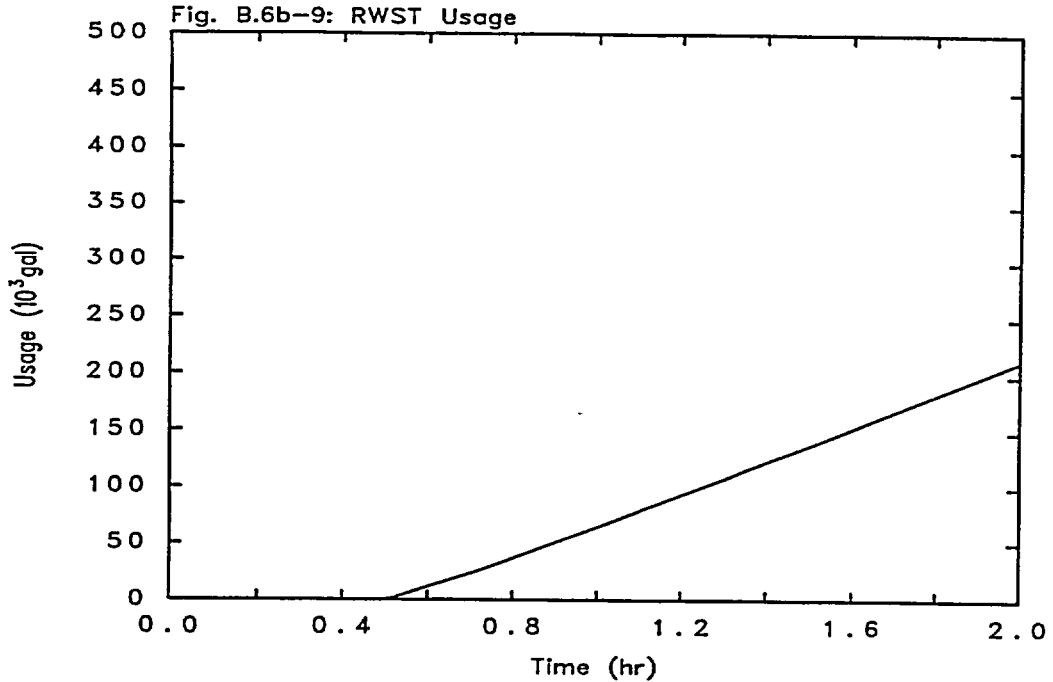
LOSP, LOFW, Fast Cooldown - Large Dry Containment
 HMJKDPLNM 08/13/99 10:40:29 MELCOR PC
 CVH-TLIQ.011



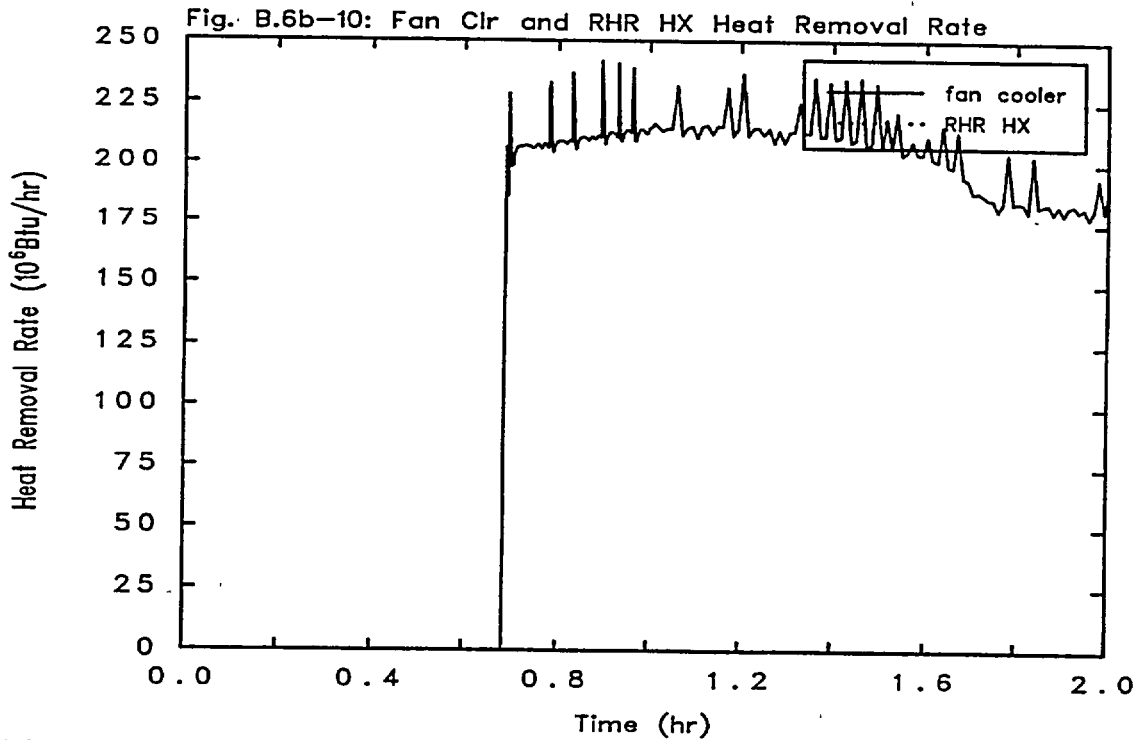
LOSP, LOFW, Fast Cooldown - Large Dry Containment
 HMJKDPLNM 08/13/99 10:40:29 MELCOR PC
 SPR-FL.1



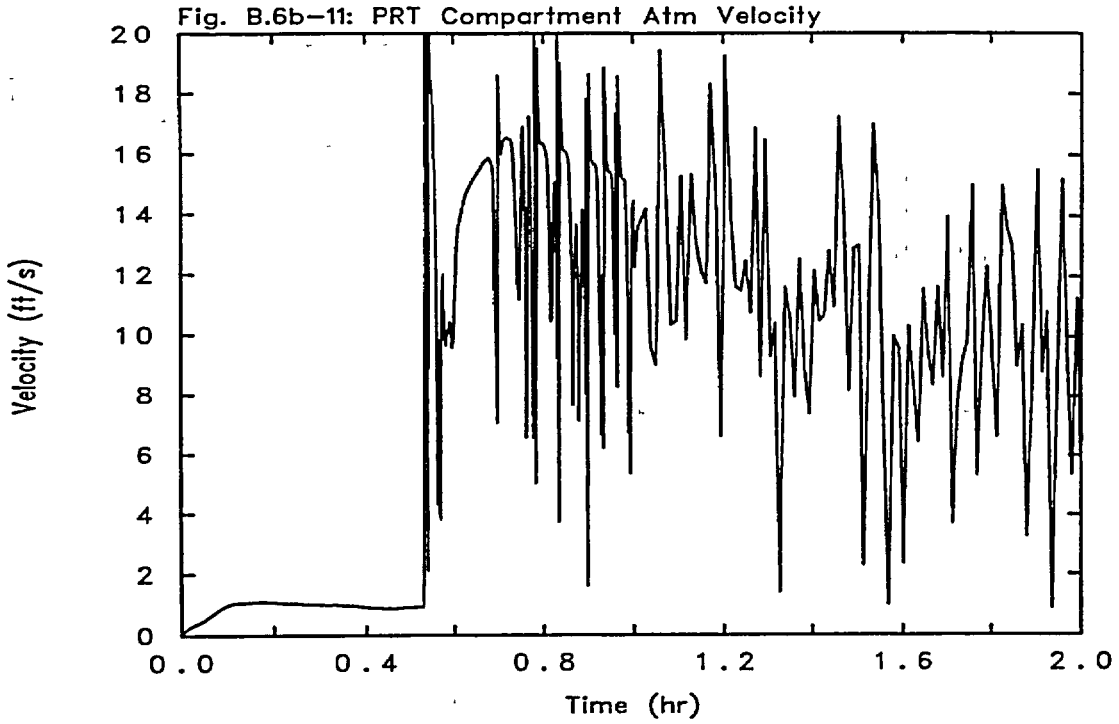
LOSP, LOFW, Fast Cooldown - Large Dry Containment
 HMJKDPLNM 08/13/99 10:40:29 MELCOR PC
 CFVALU.542



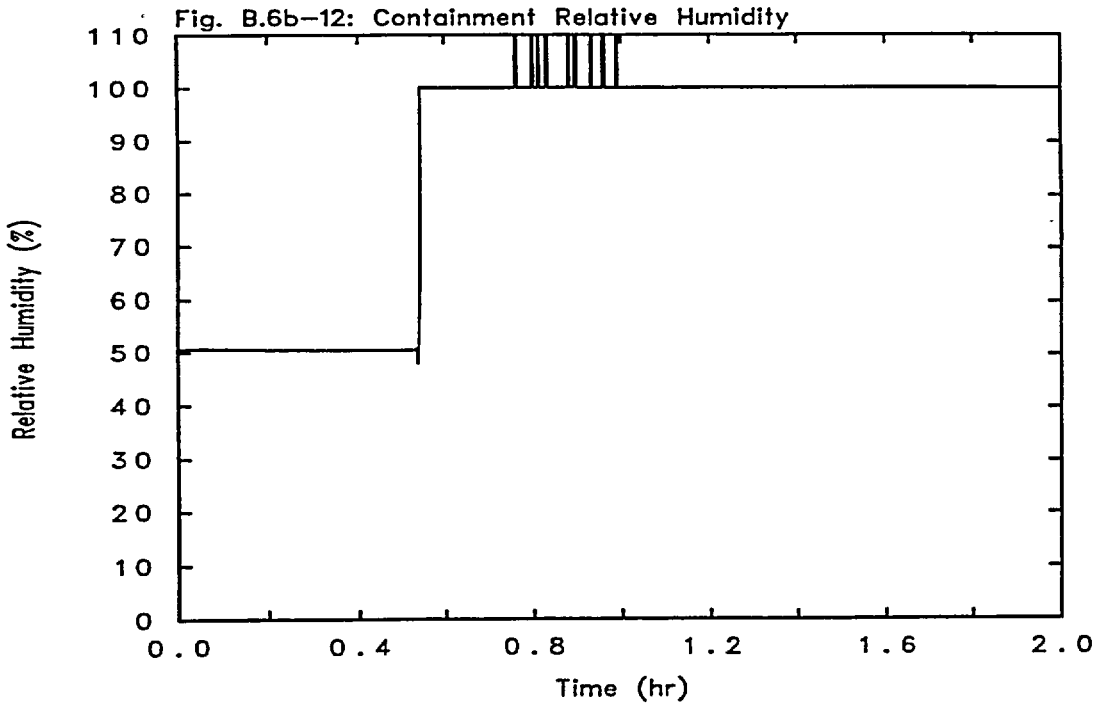
LOSP, LOFW, Fast Cooldown - Large Dry Containment
 HMJKDPLNM 08/13/99 10:40:29 MELCOR PC
 CFVALU.216



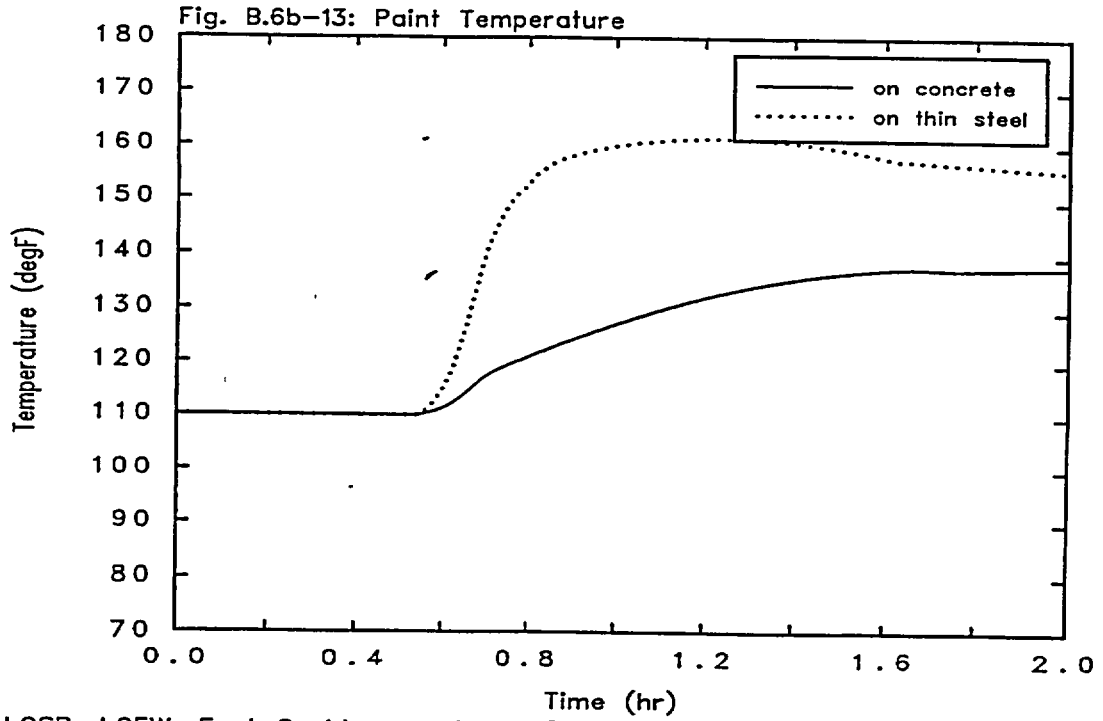
LOSP, LOFW, Fast Cooldown - Large Dry Containment
 HMJKDPLNM 08/13/99 10:40:29 MELCOR PC



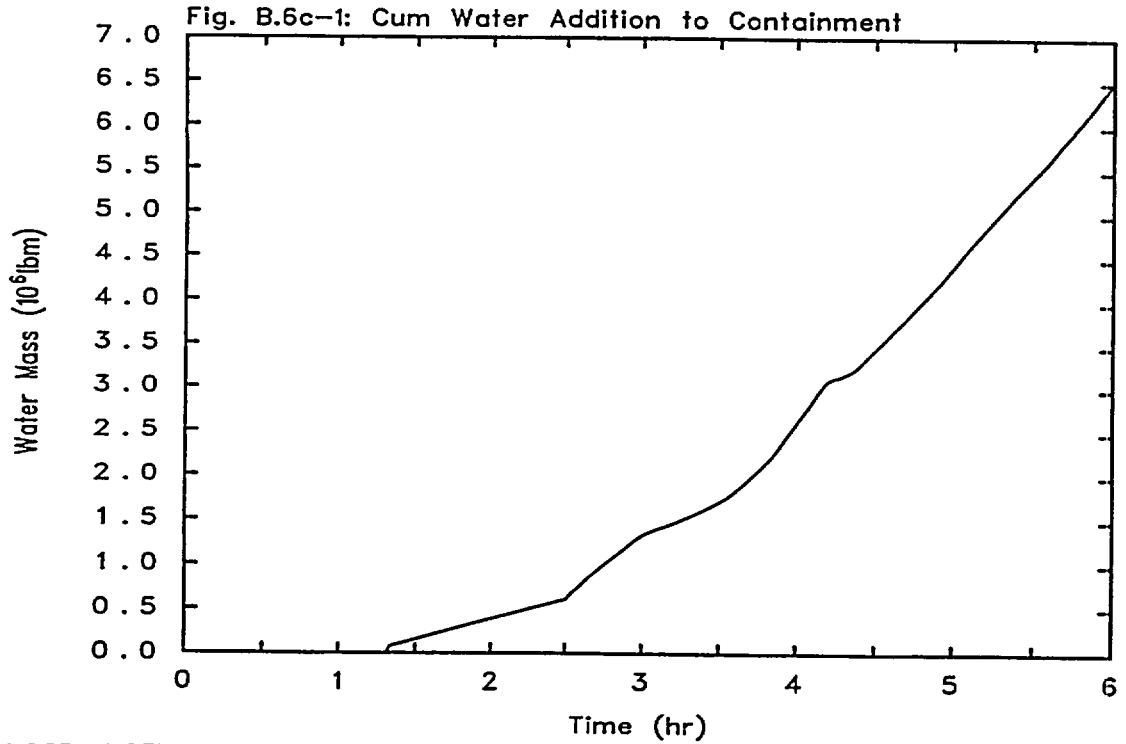
LOSP, LOFW, Fast Cooldown - Large Dry Containment
 HMJKDPLNM 08/13/99 10:40:29 MELCOR PC
 CVH-VELVAPCV.002



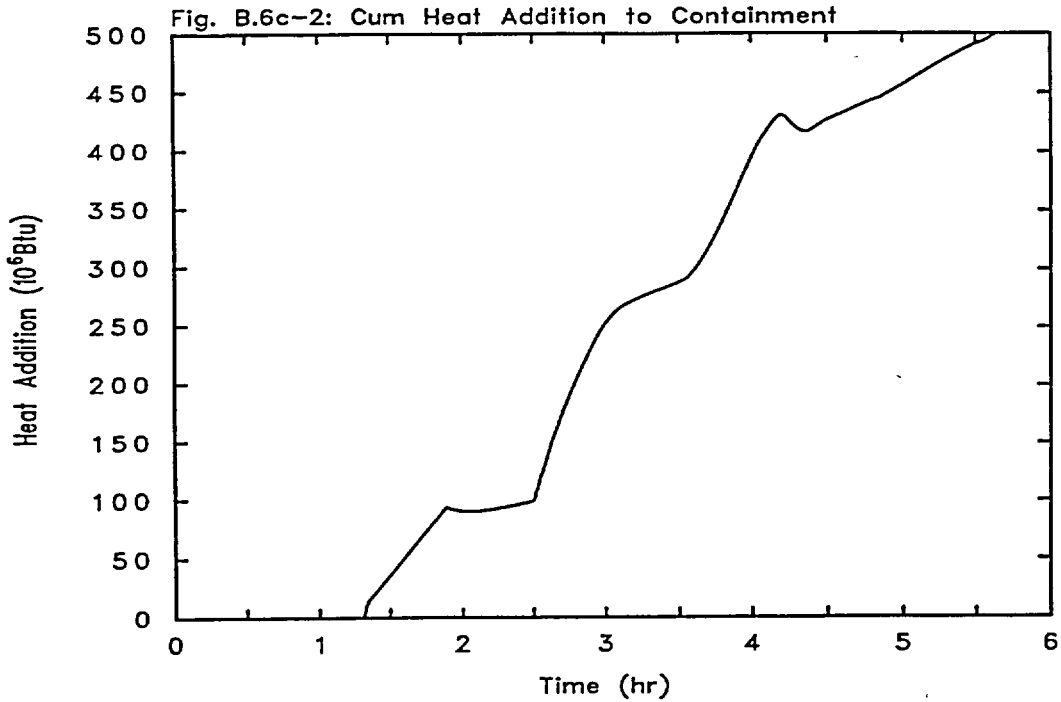
LOSP, LOFW, Fast Cooldown - Large Dry Containment
 HMJKDPLNM 08/13/99 10:40:29 MELCOR PC
 CFVALU.536



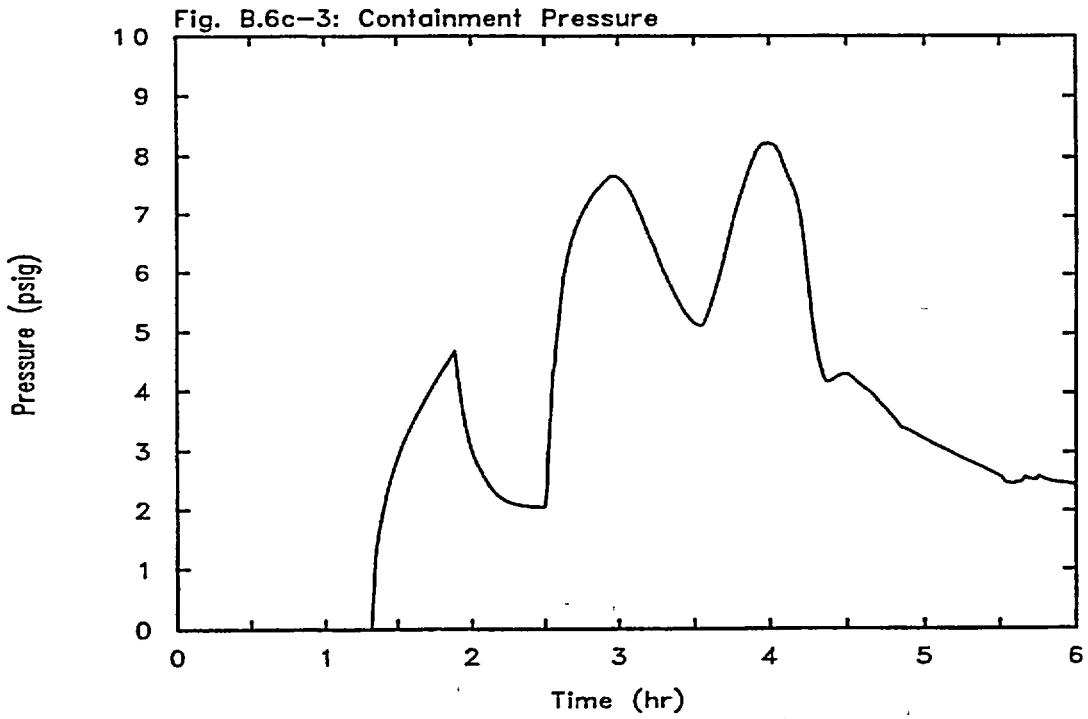
LOSP, LOFW, Fast Cooldown - Large Dry Containment
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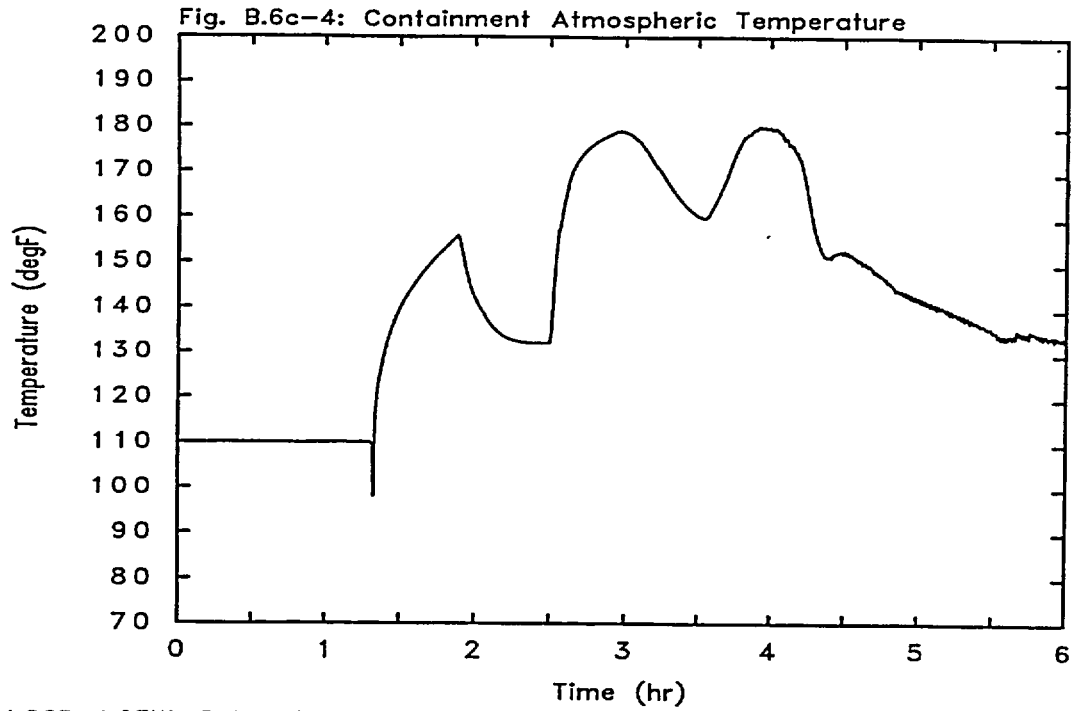
LOSP, LOFW, Delayed Action - Large Dry Containment
 HMJLAPPNM 08/13/99 11:06:45 MELCOR PC
 CFVALU.538



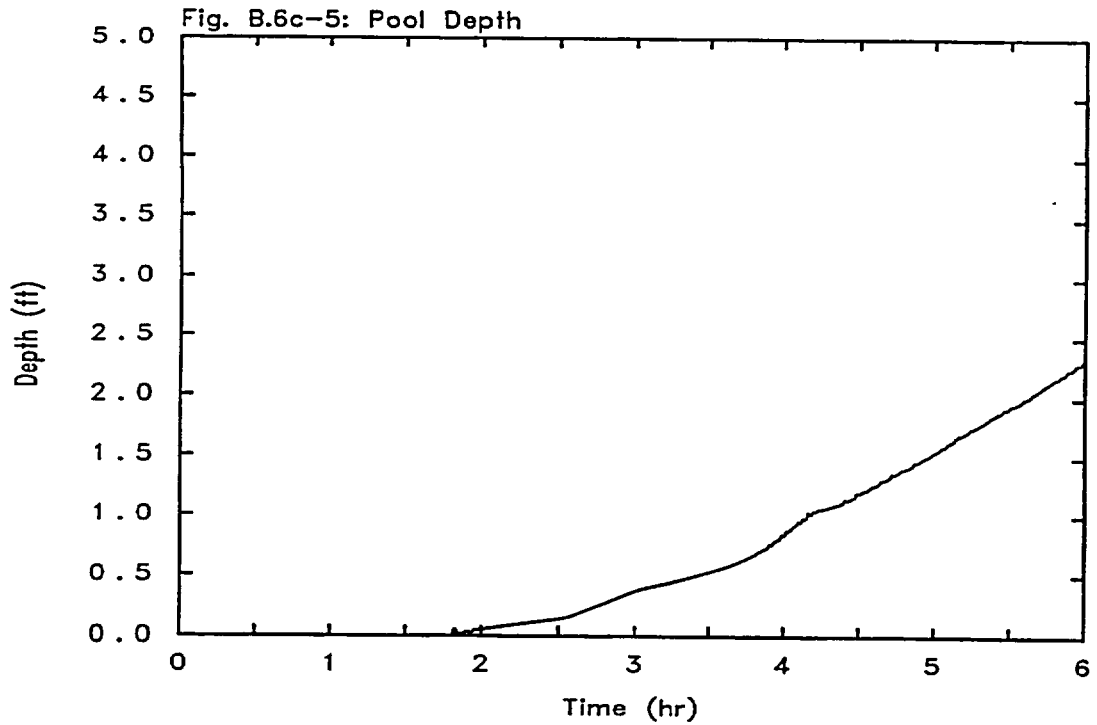
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 CFVALU.546



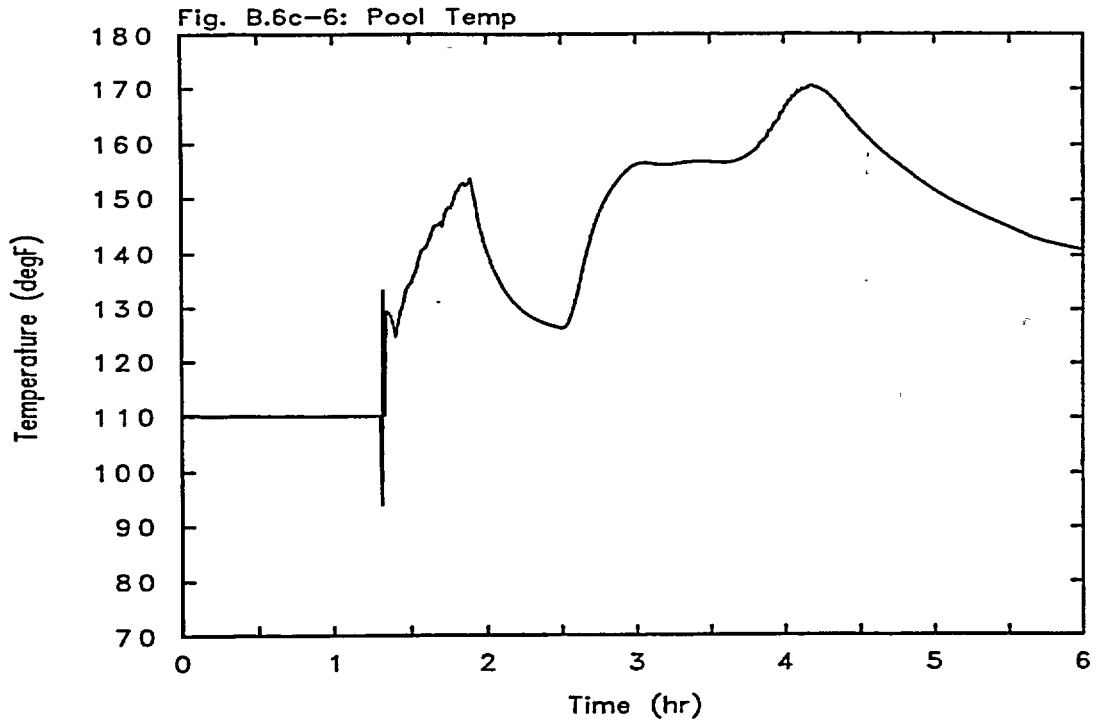
LOSP, LOFW, Delayed Action - Large Dry Containment
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 CVH-P.012



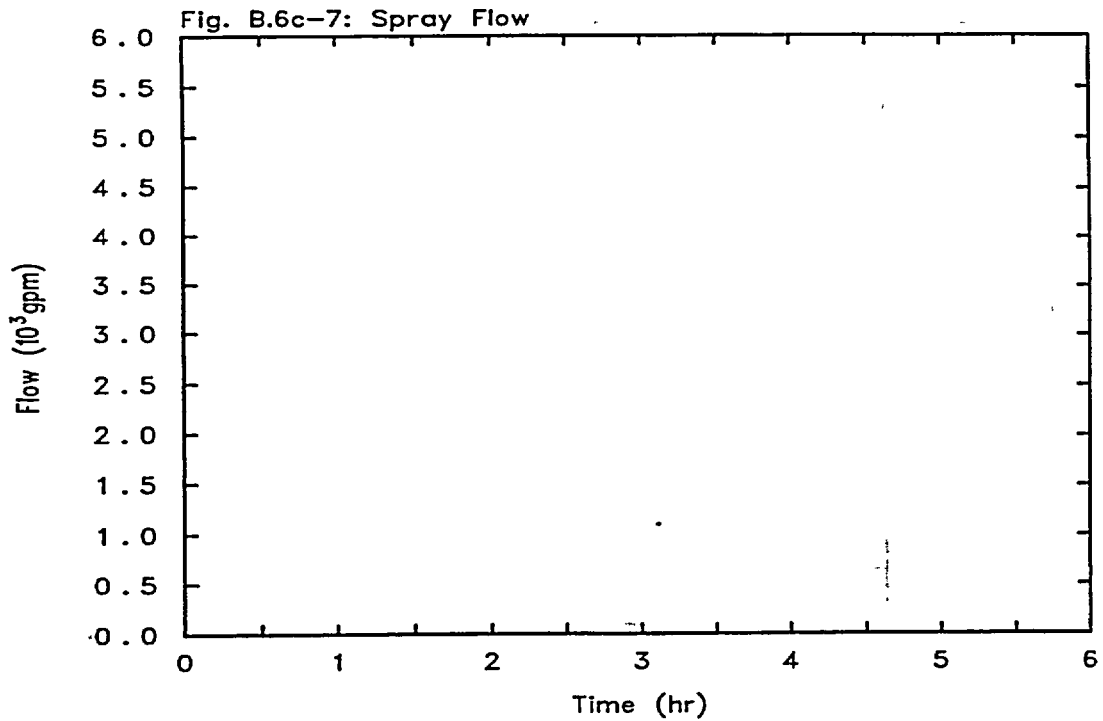
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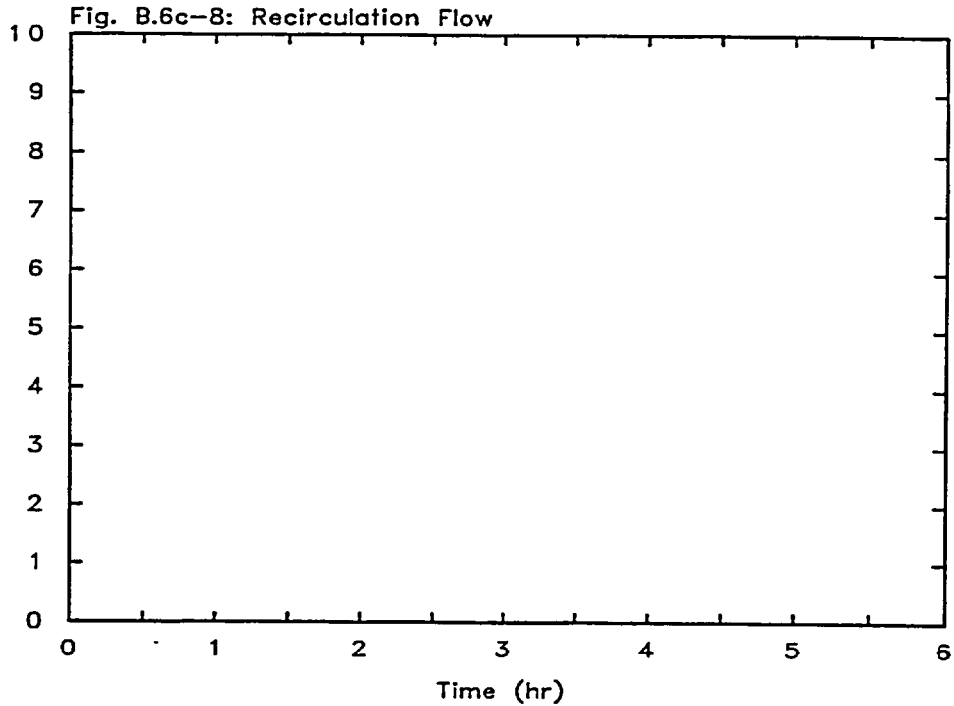
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 CVH-LIQLEV.011



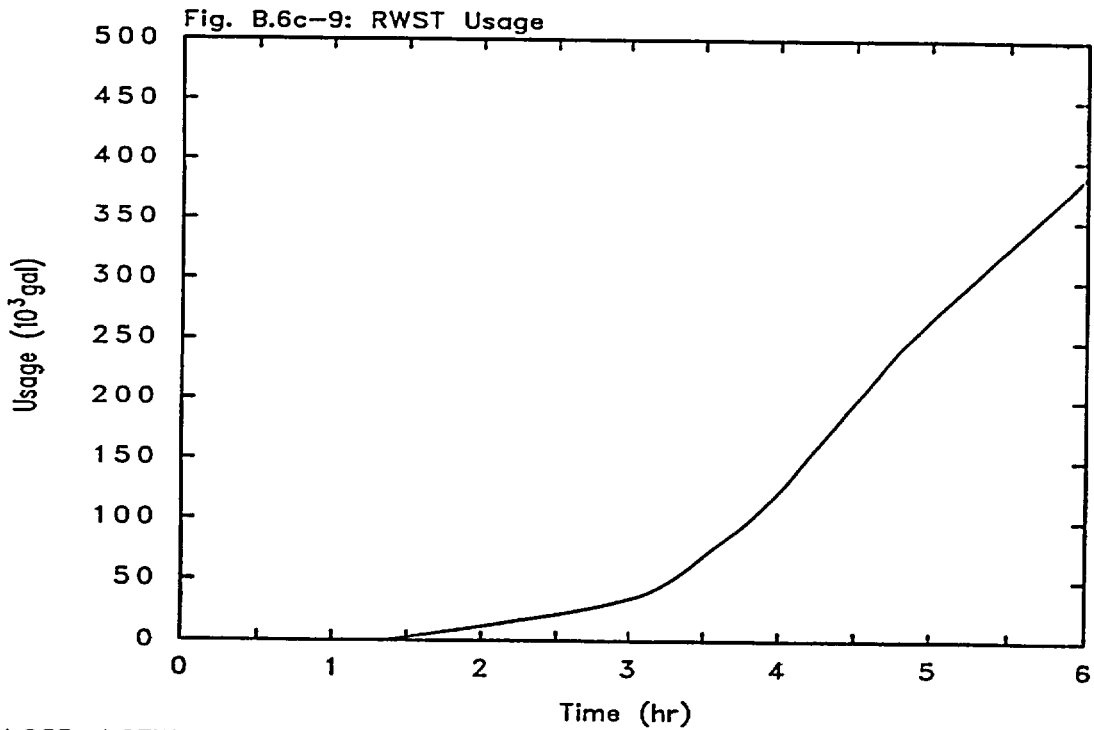
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 CVH-TLIQ.011



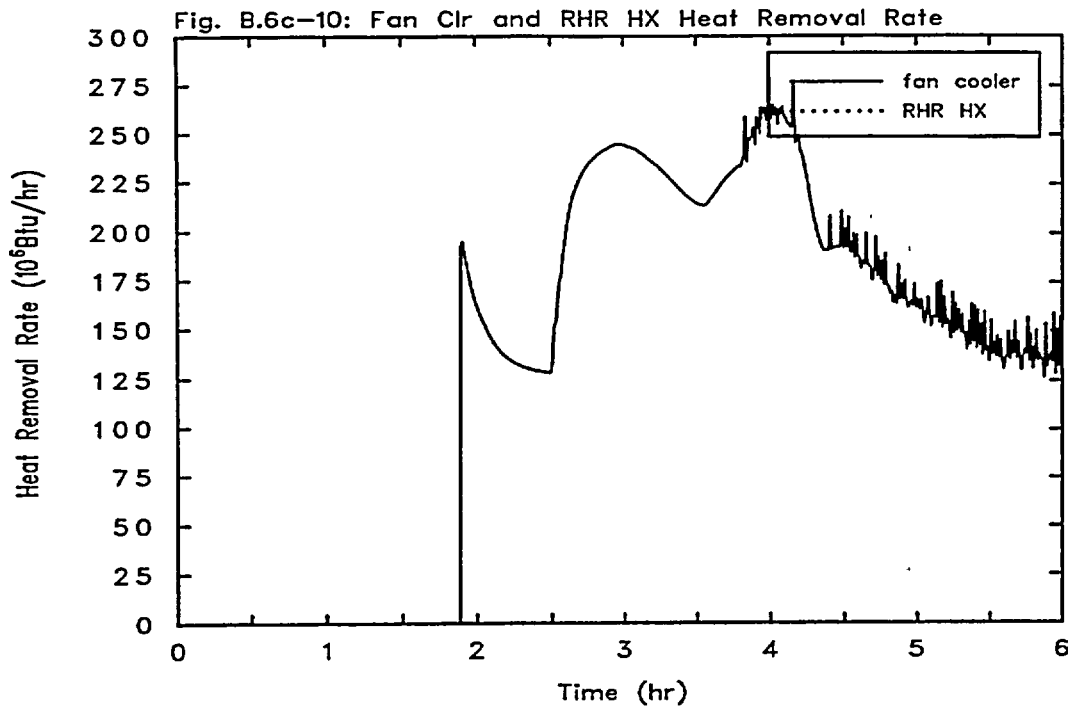
LOSP, LOFW, Delayed Action - Large Dry Containment
 HMJLAPPNM 08/13/99 11:06:45 MELCOR PC
 SPR-FL.1



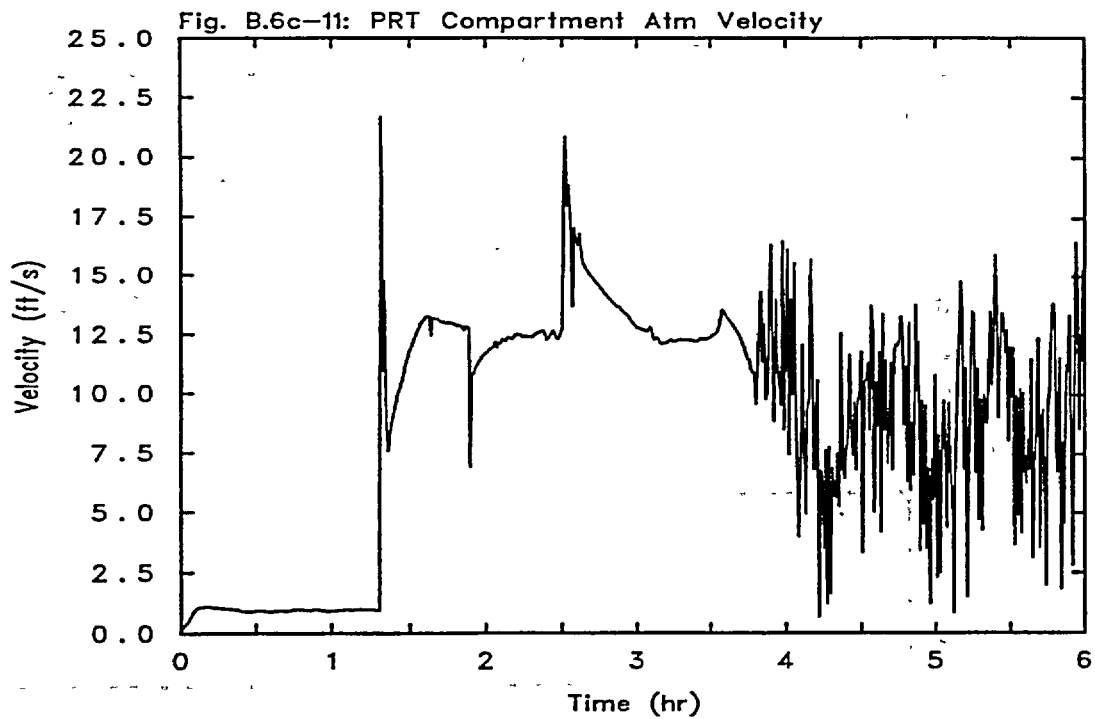
LOSP, LOFW, Delayed Action - Large Dry Containment
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 CFVALU.542



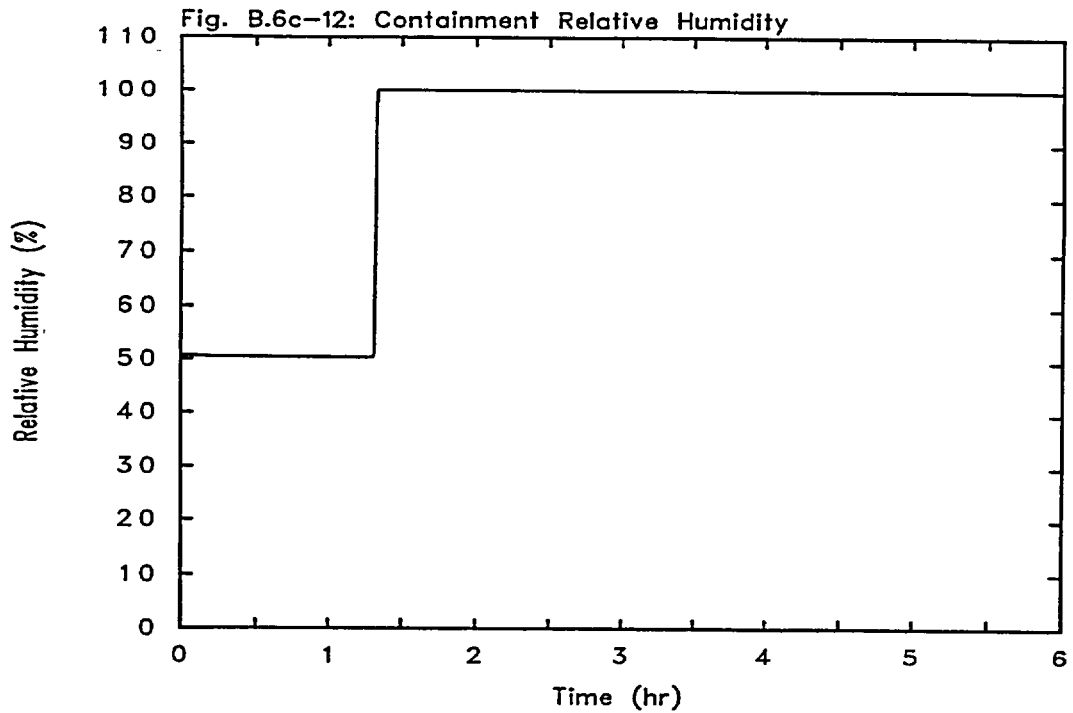
LOSP, LOFW, Delayed Action - Large Dry Containment
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 CFVALU.216



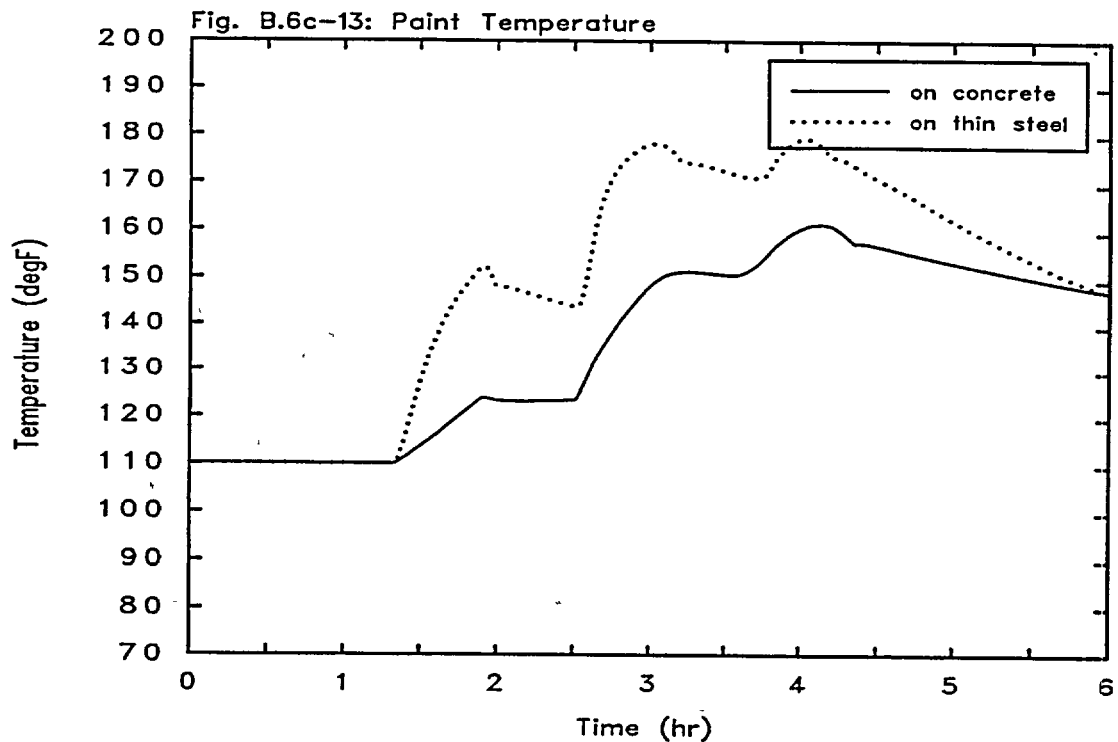
LOSP, LOFW, Delayed Action - Large Dry Containment
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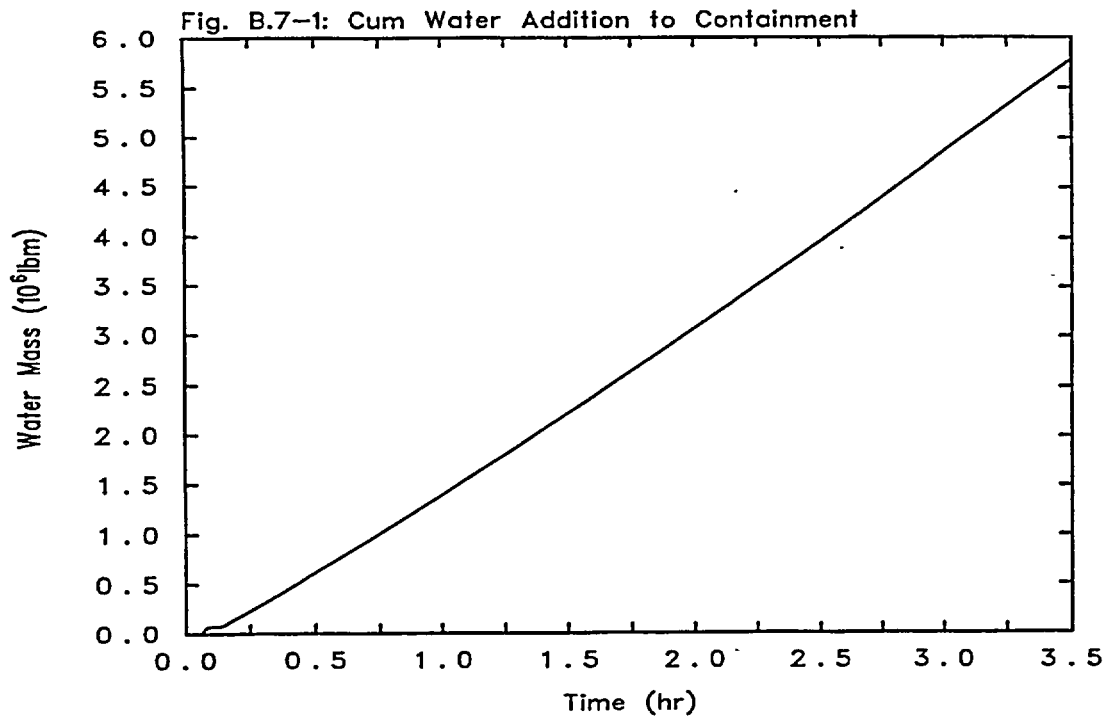
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 CVH-VELVAPCV.002



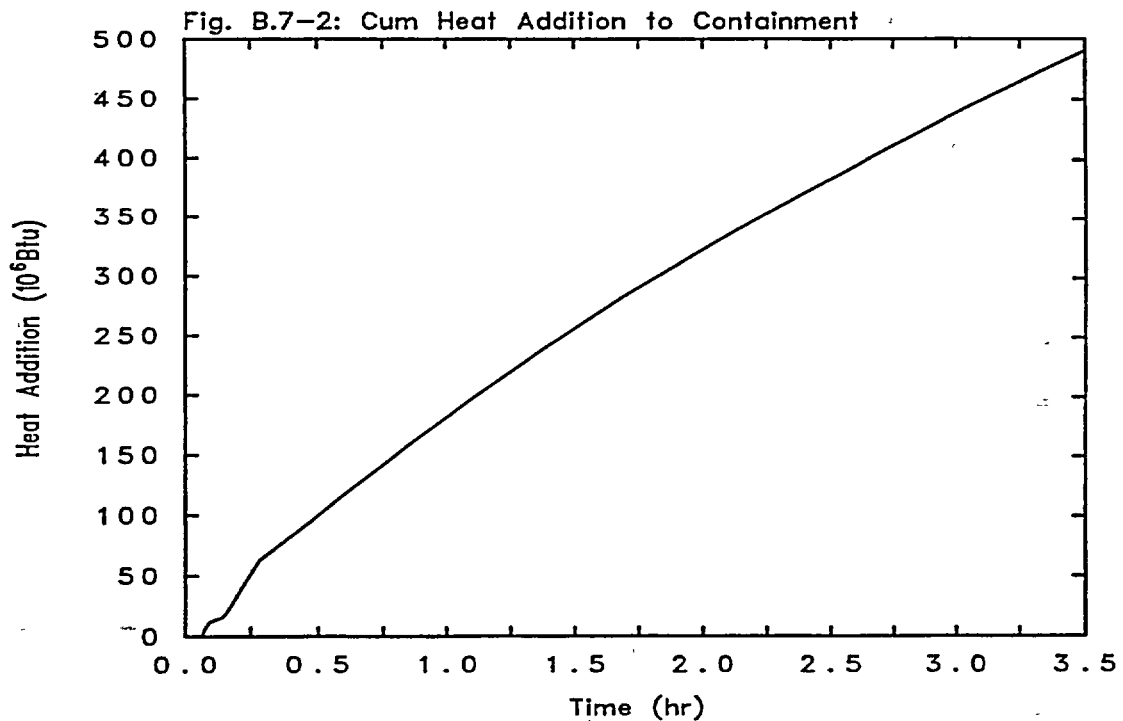
LOSP, LOFW, Delayed Action - Large Dry Containment
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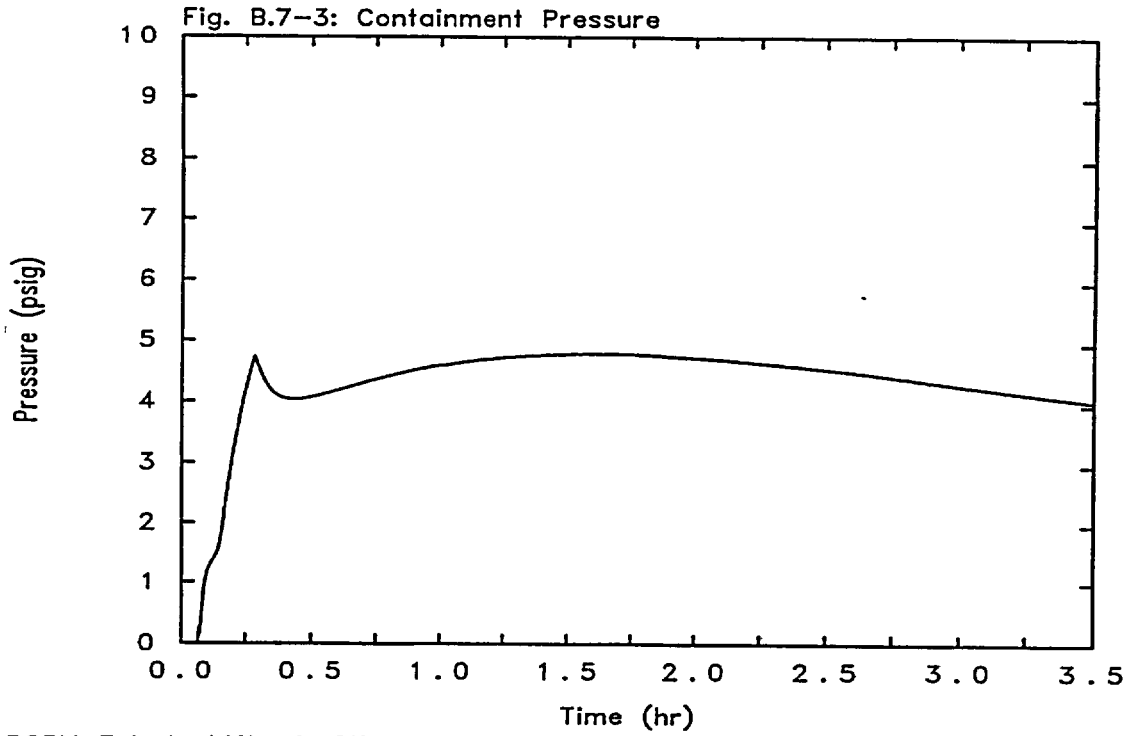
LOSP, LOFW, Delayed Action - Large Dry Containment
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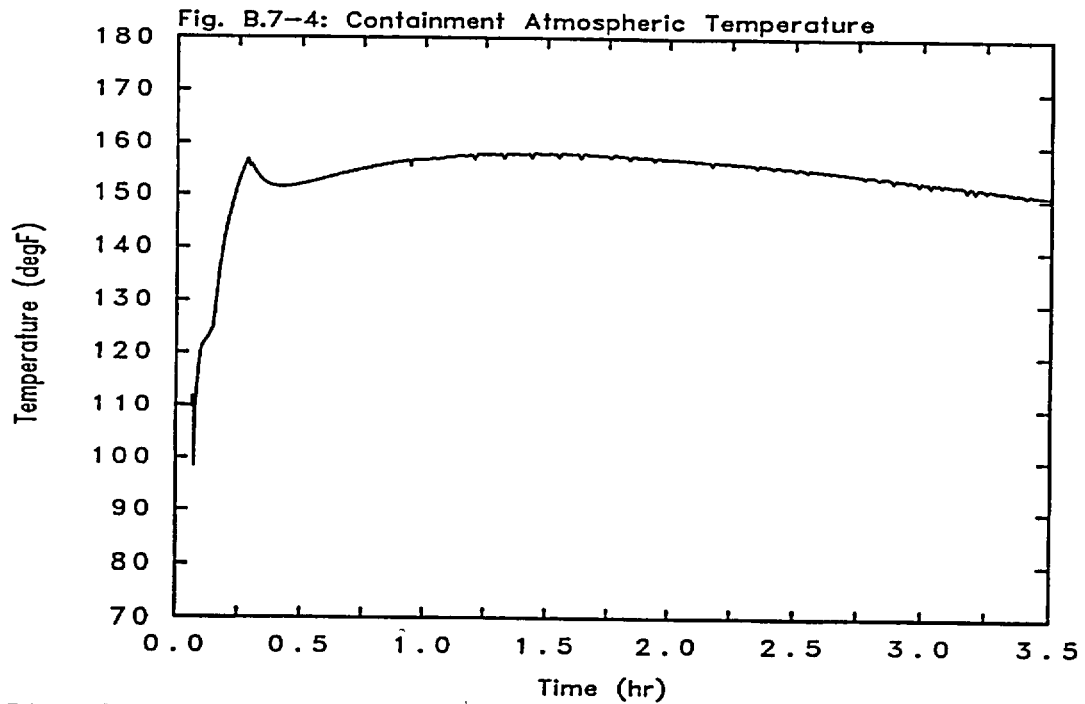
PORV Falsely Lifts & Sticks - Lrg Dry Containment
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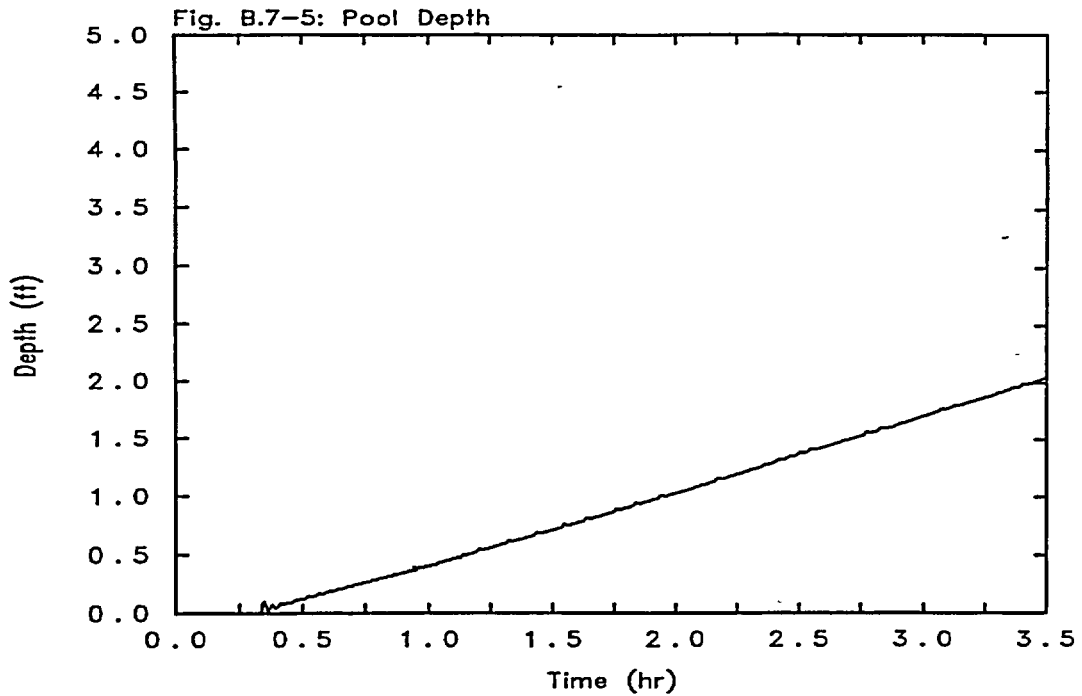
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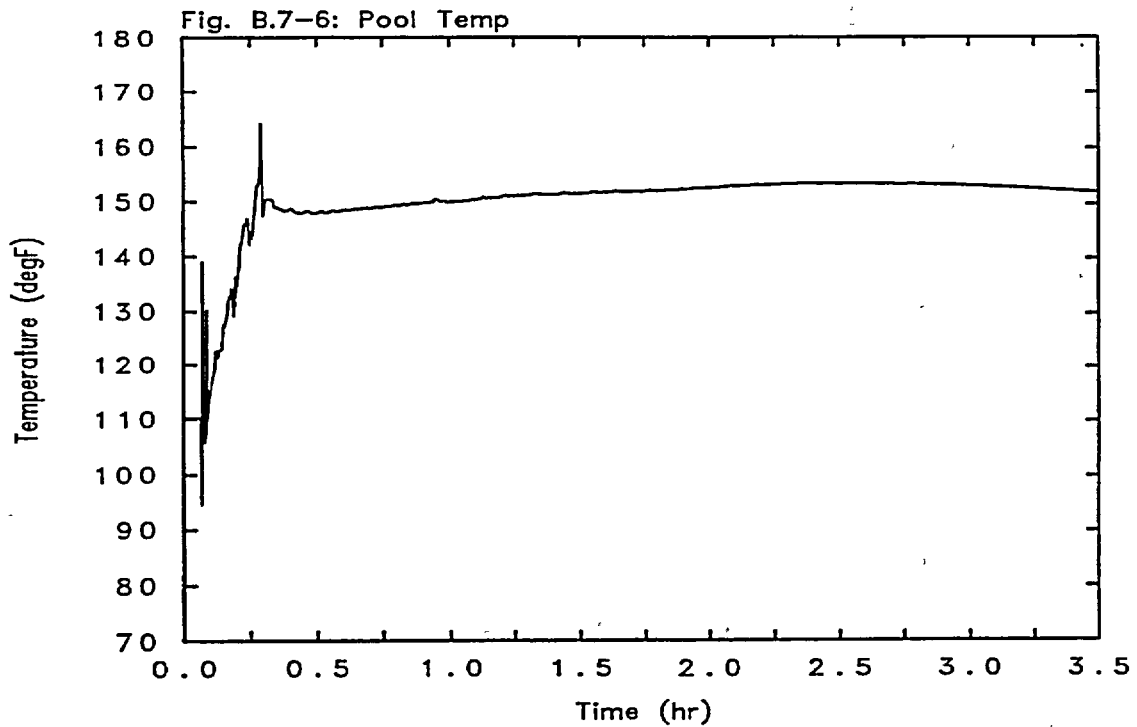
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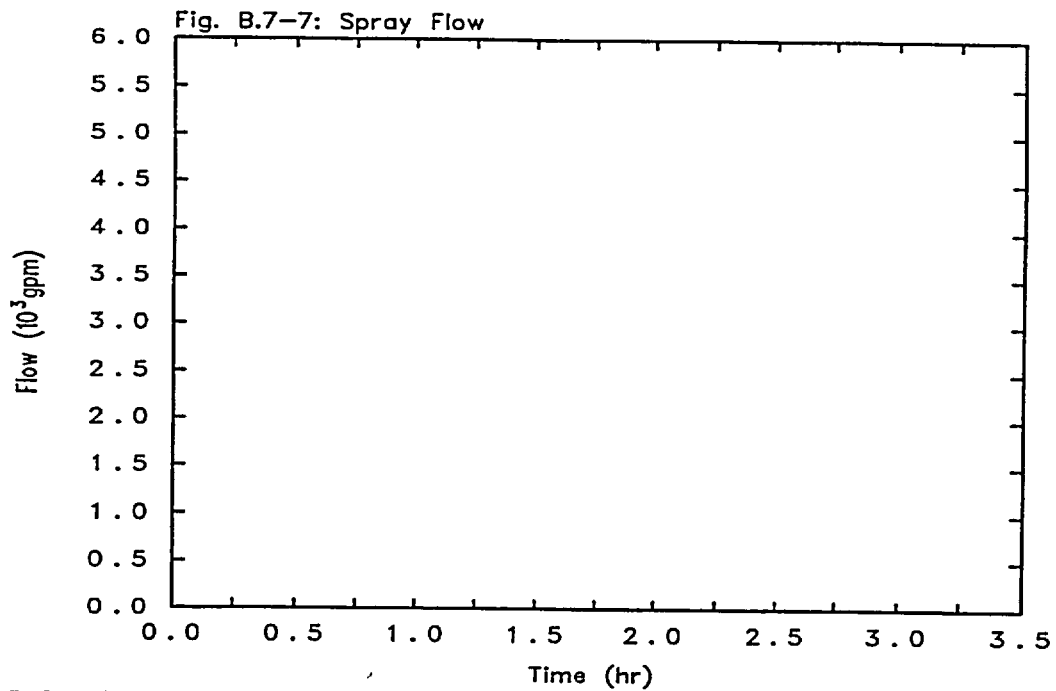
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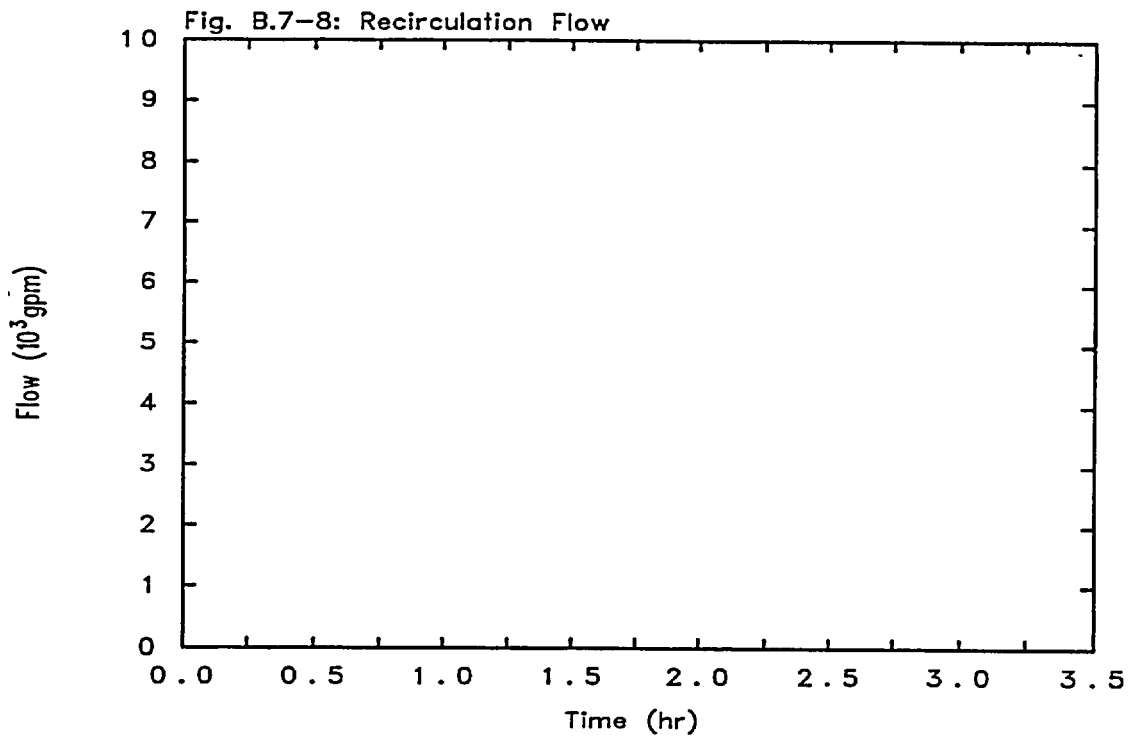
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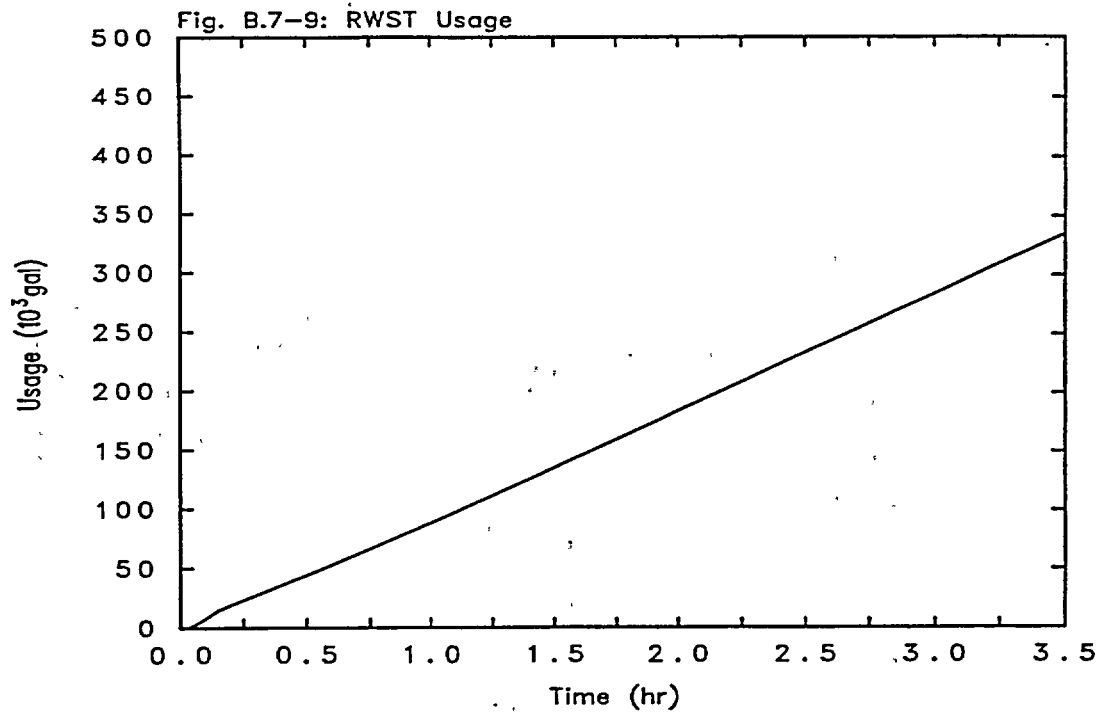
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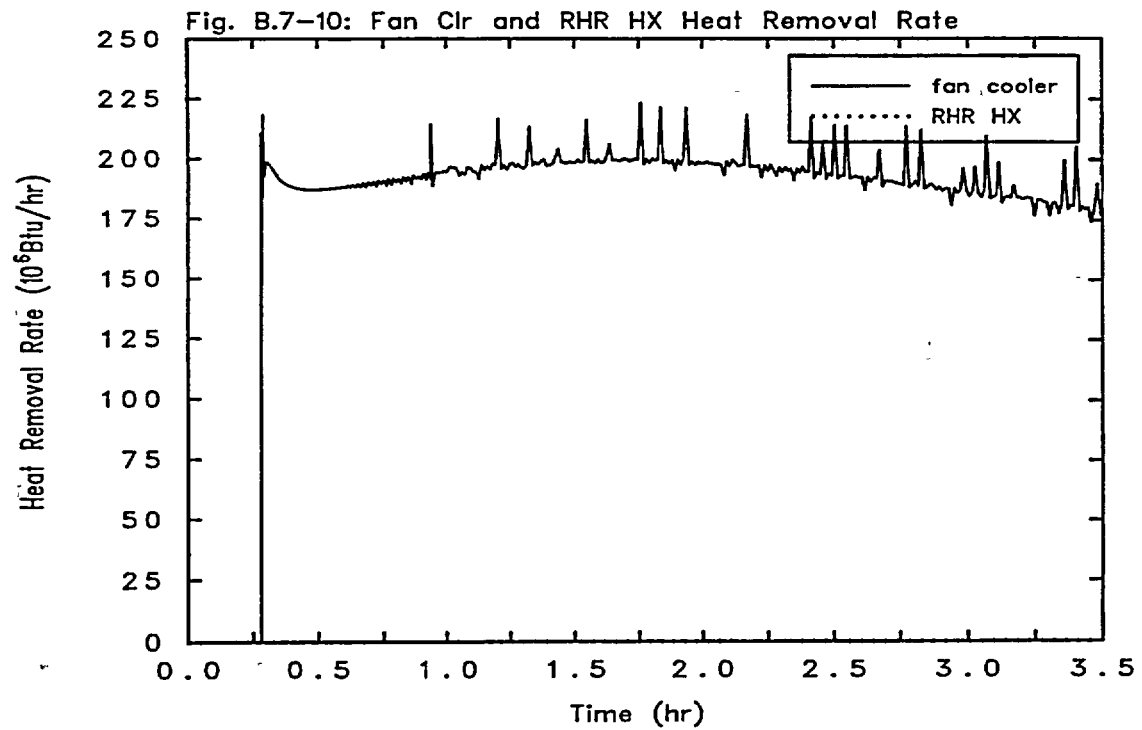
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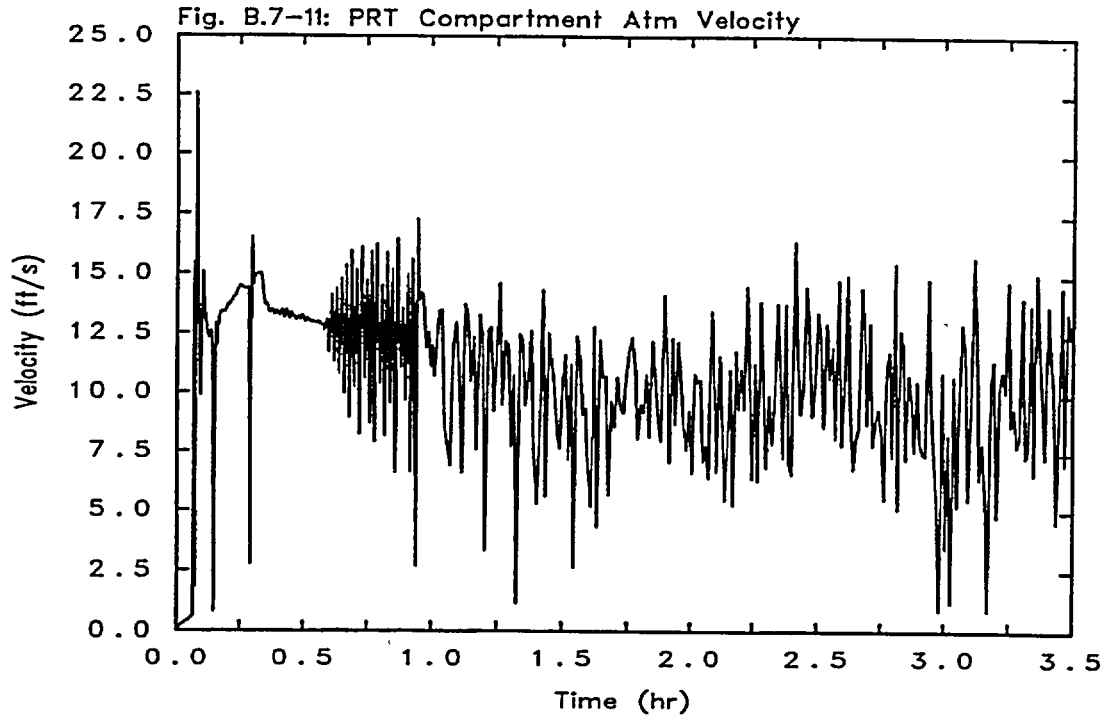
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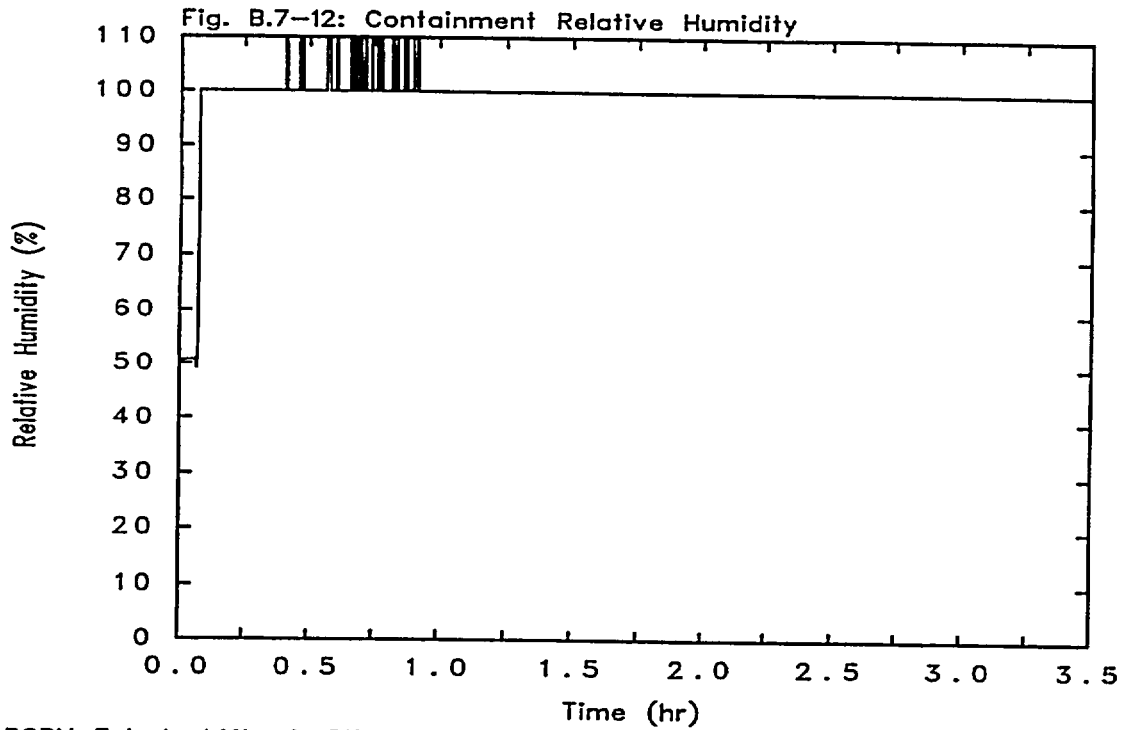
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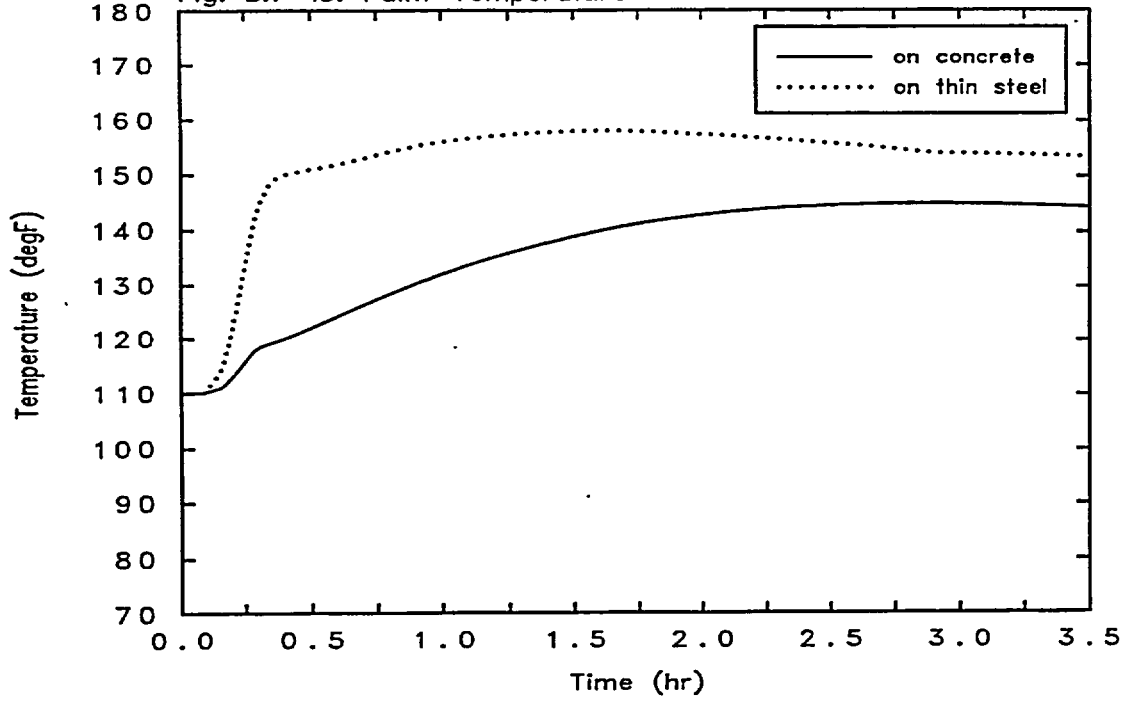


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 CVH-VELVAPCV.002



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 CFVALU.536

Fig. B.7-13: Paint Temperature

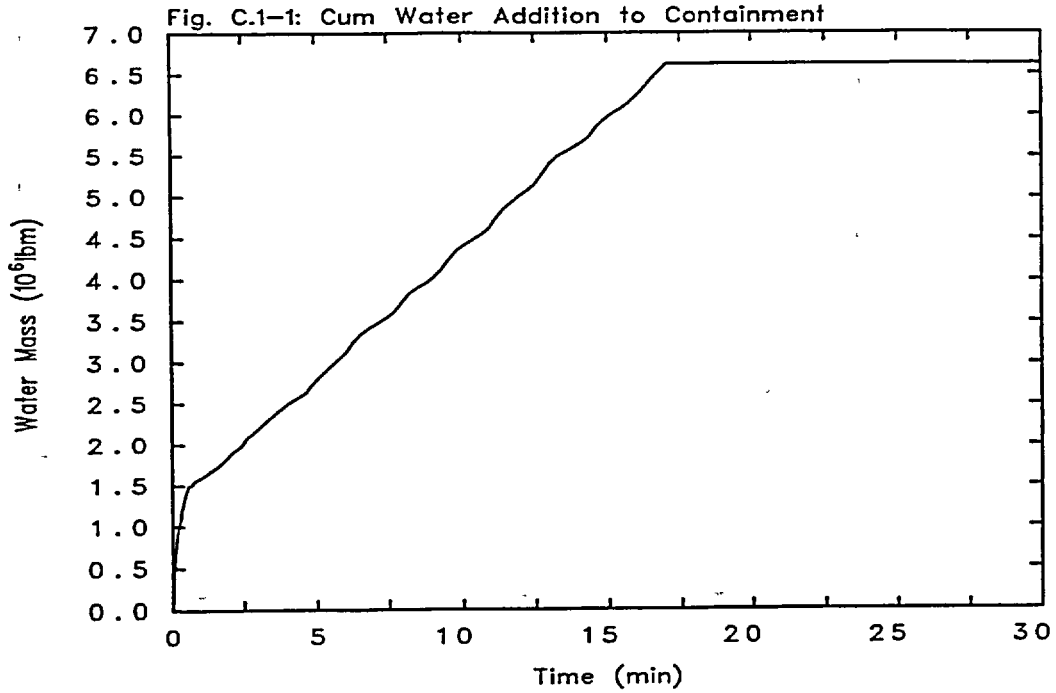


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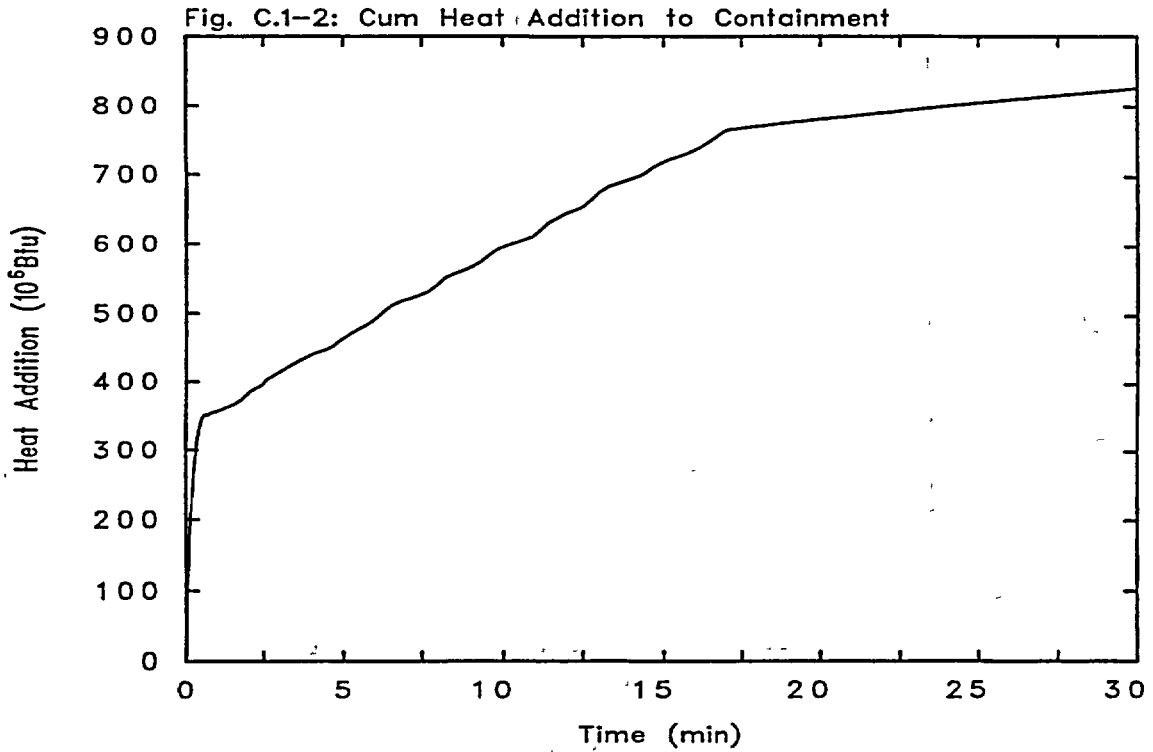
APPENDIX C

MELCOR PREDICTIONS OF ICE-CONDENSER CONTAINMENT RESPONSE

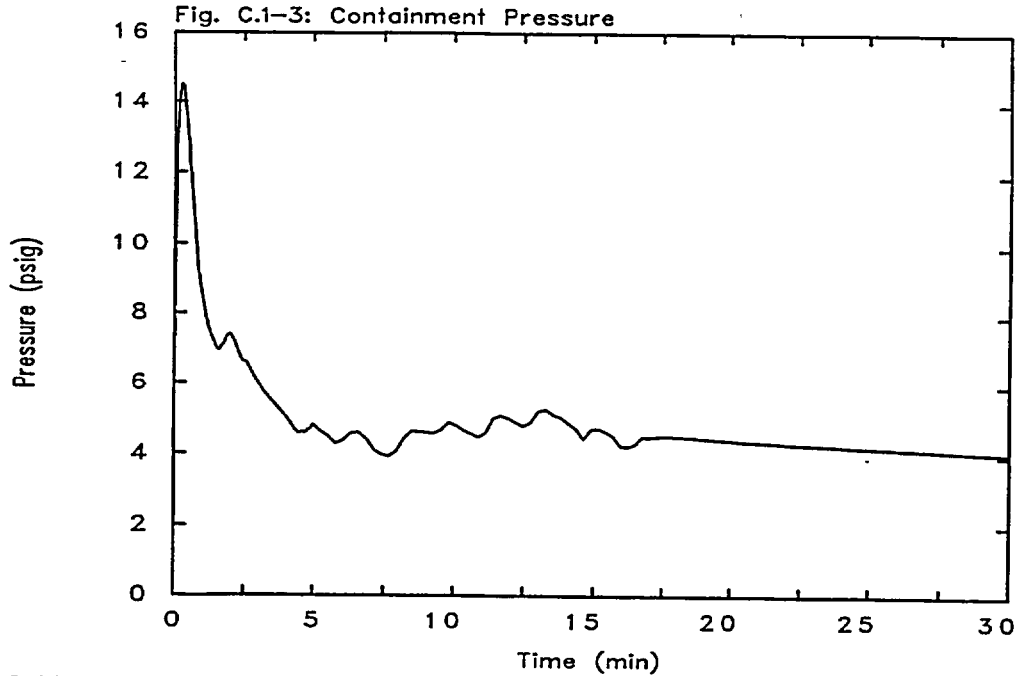
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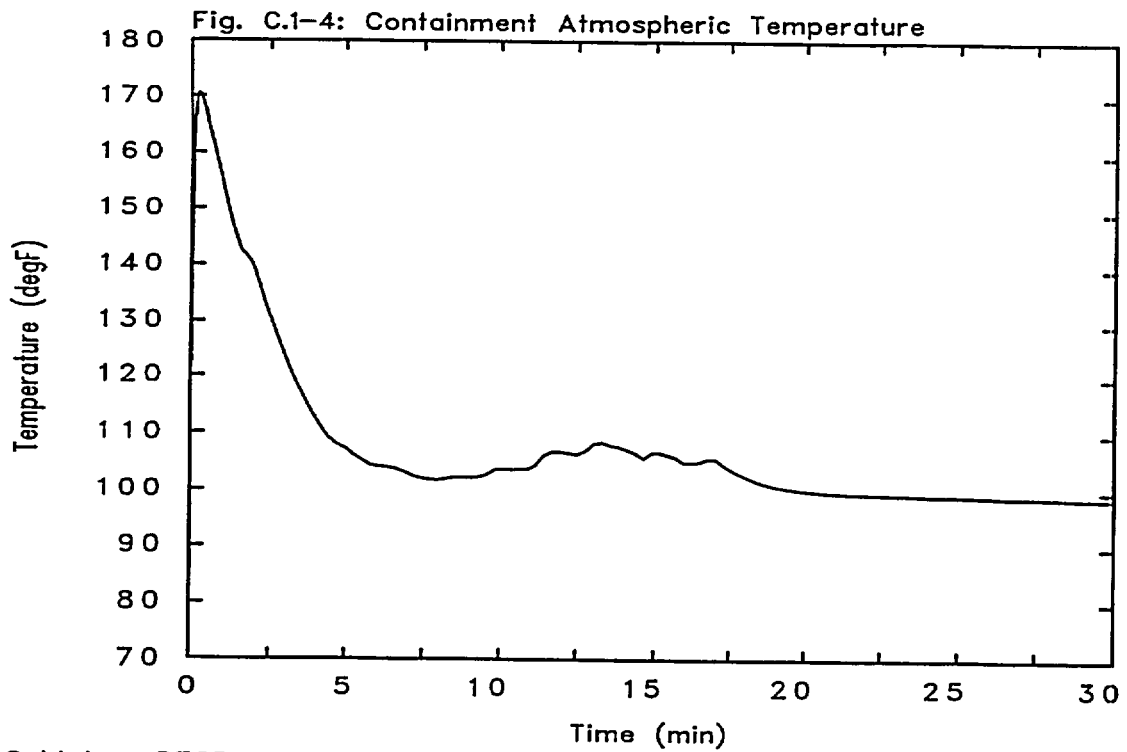
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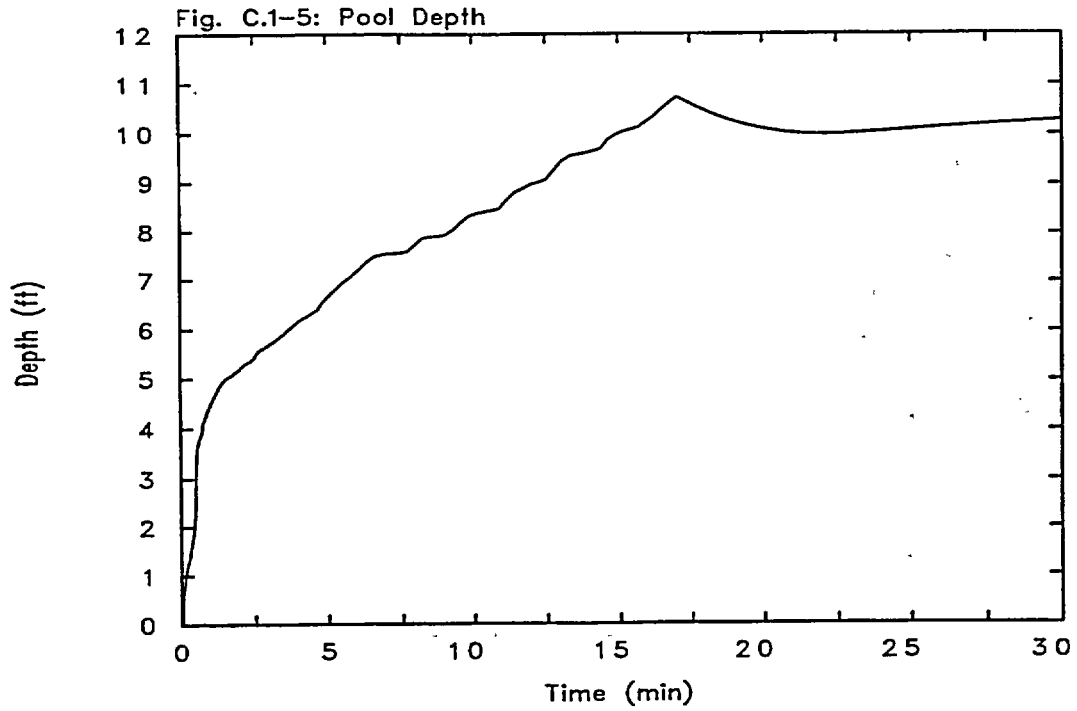
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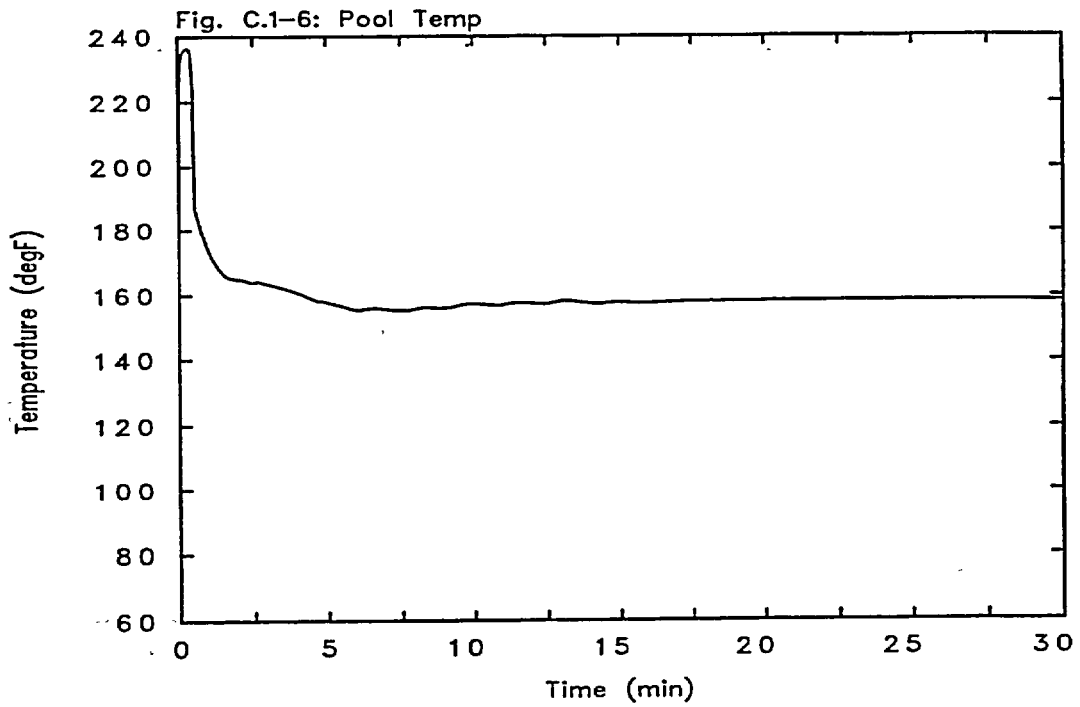
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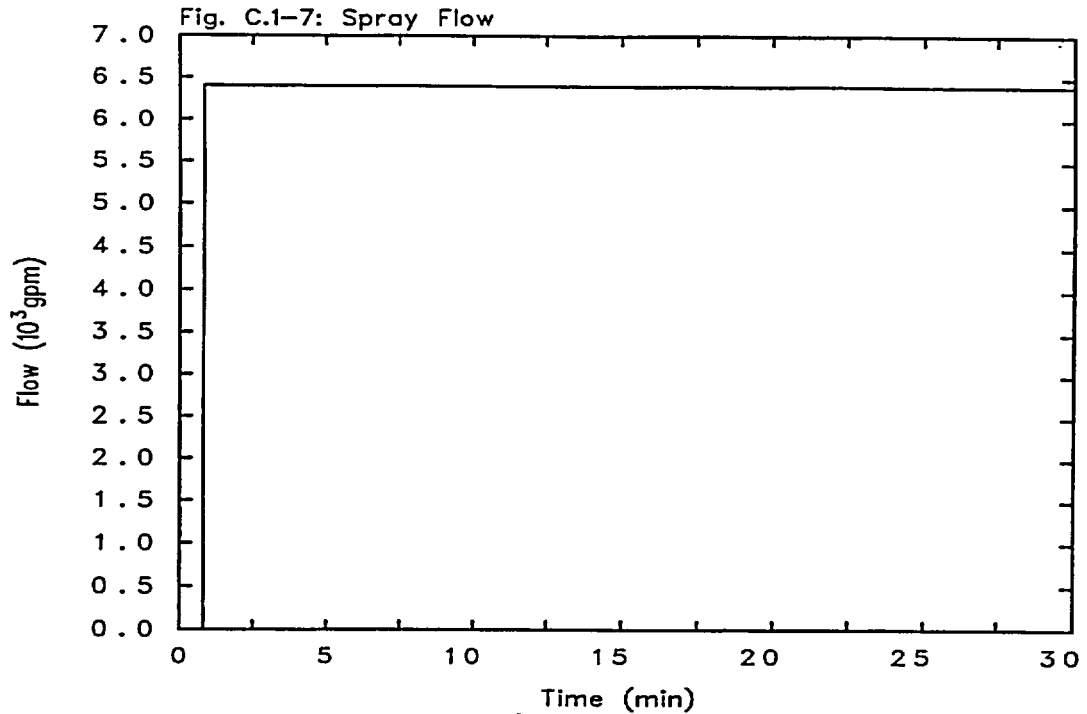
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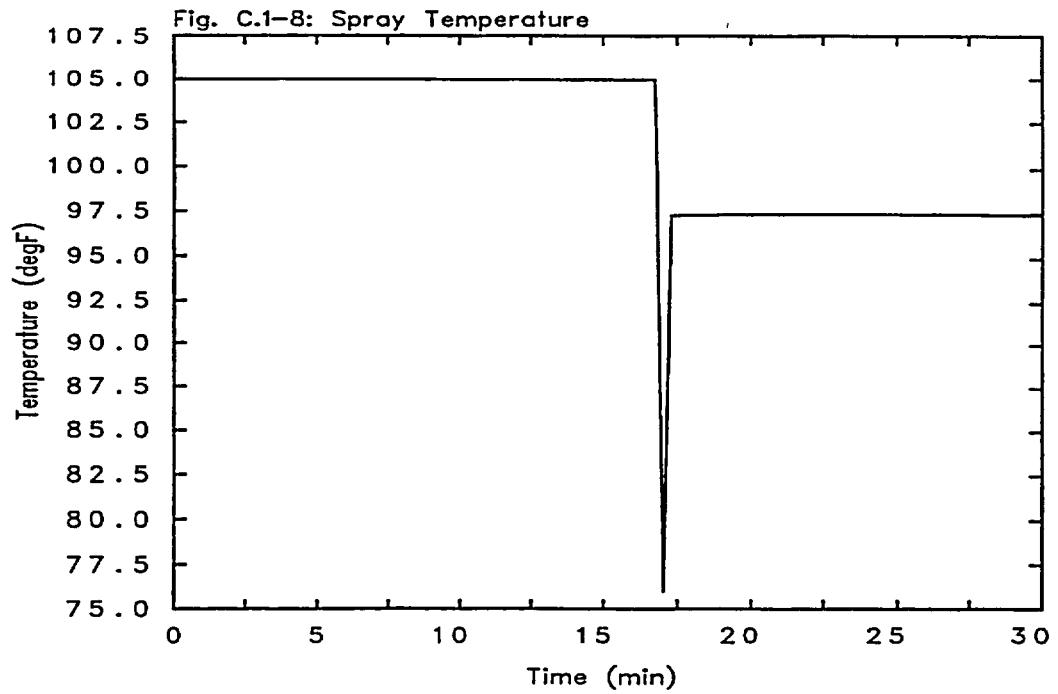
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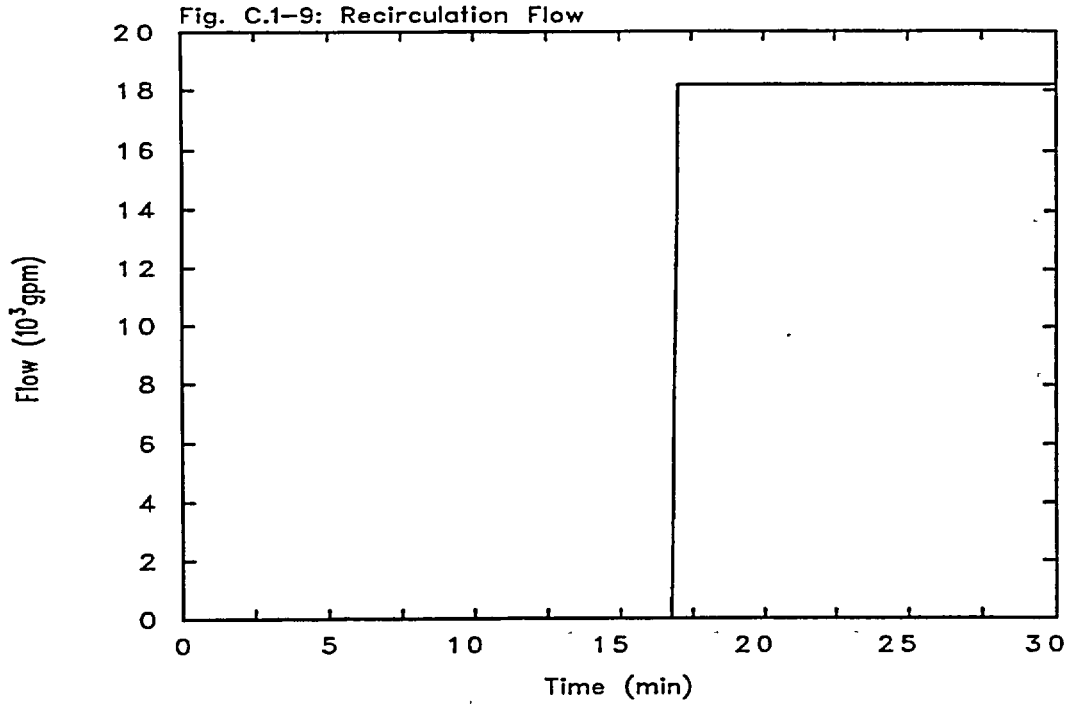
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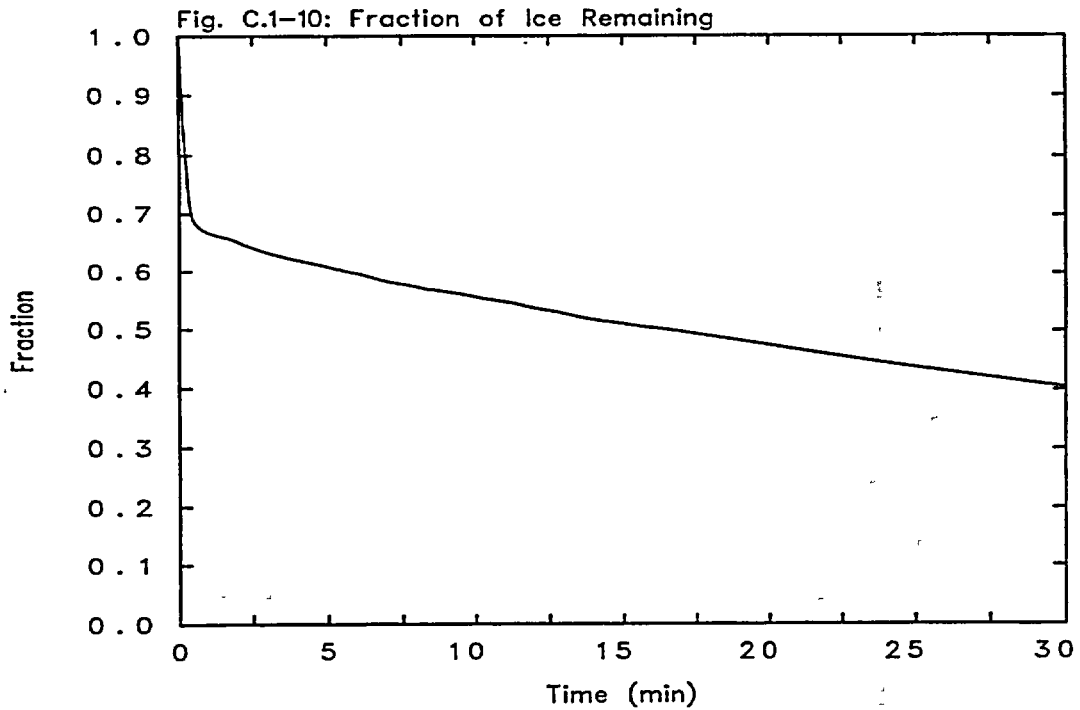
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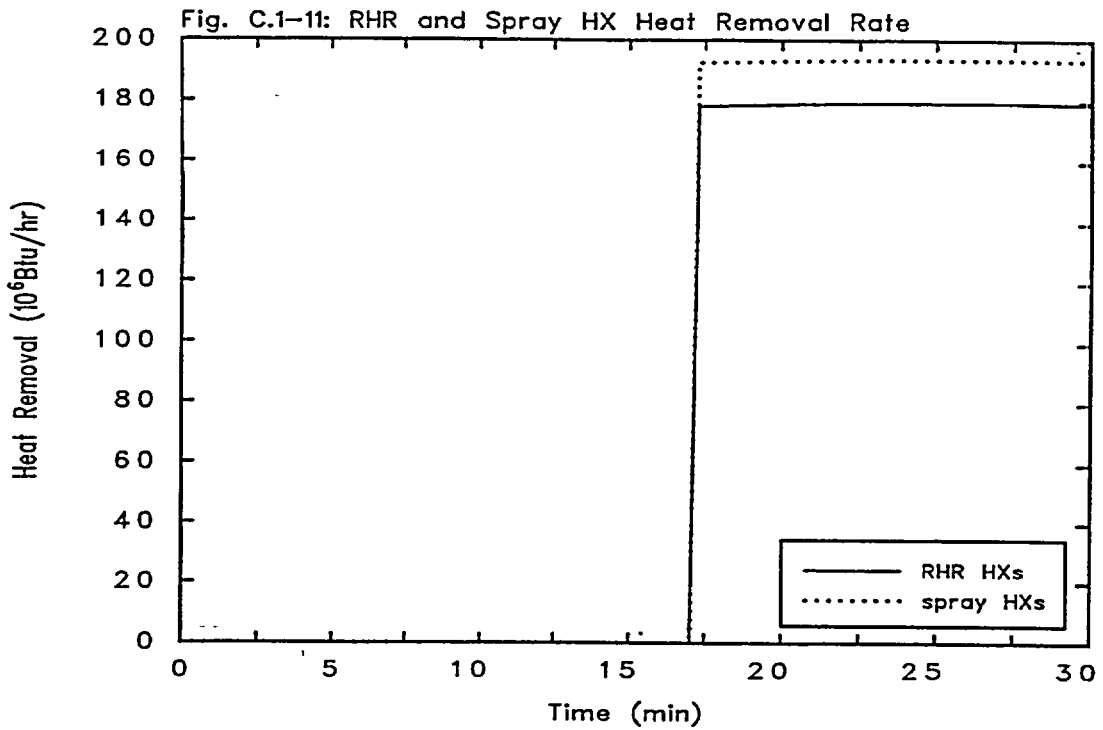
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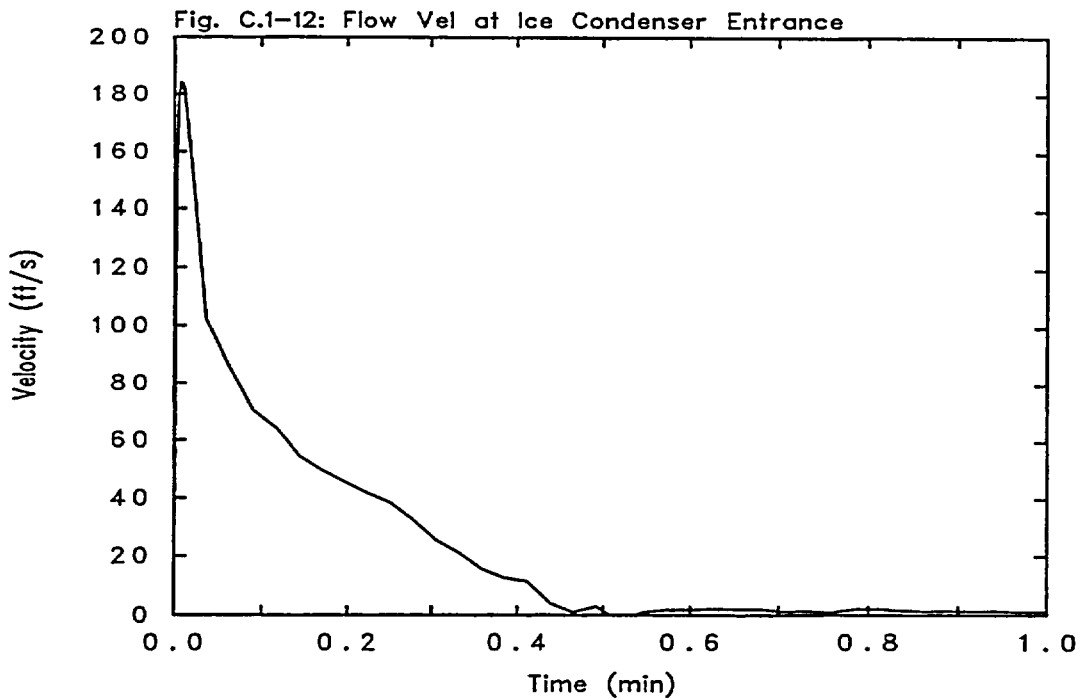
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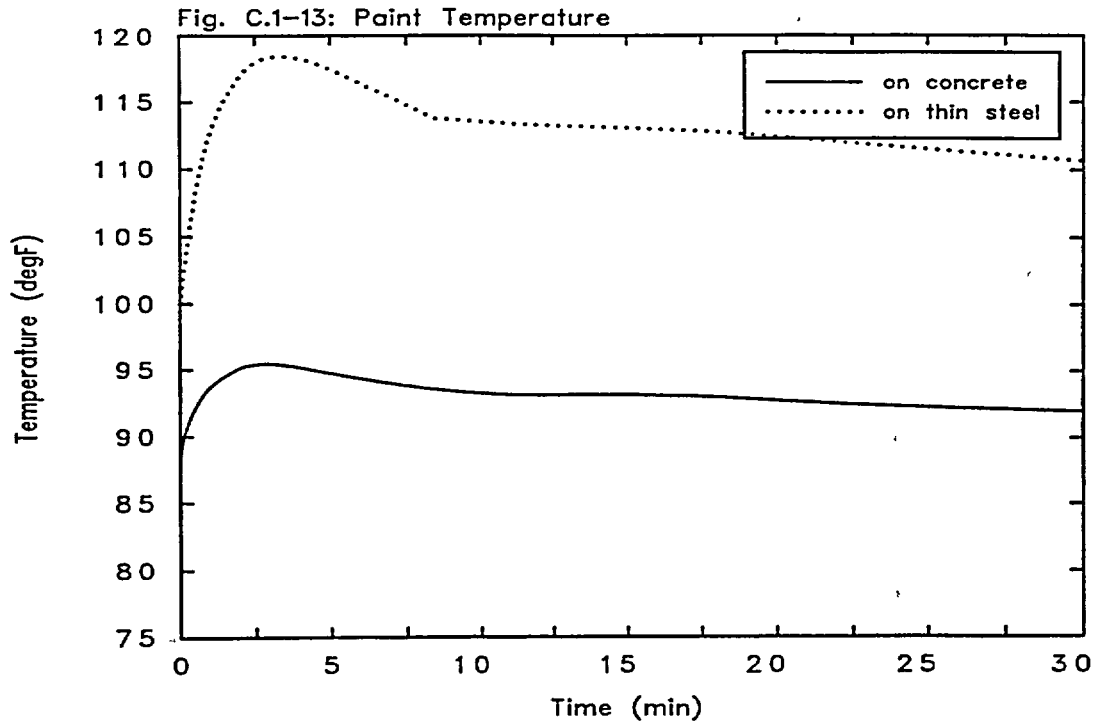
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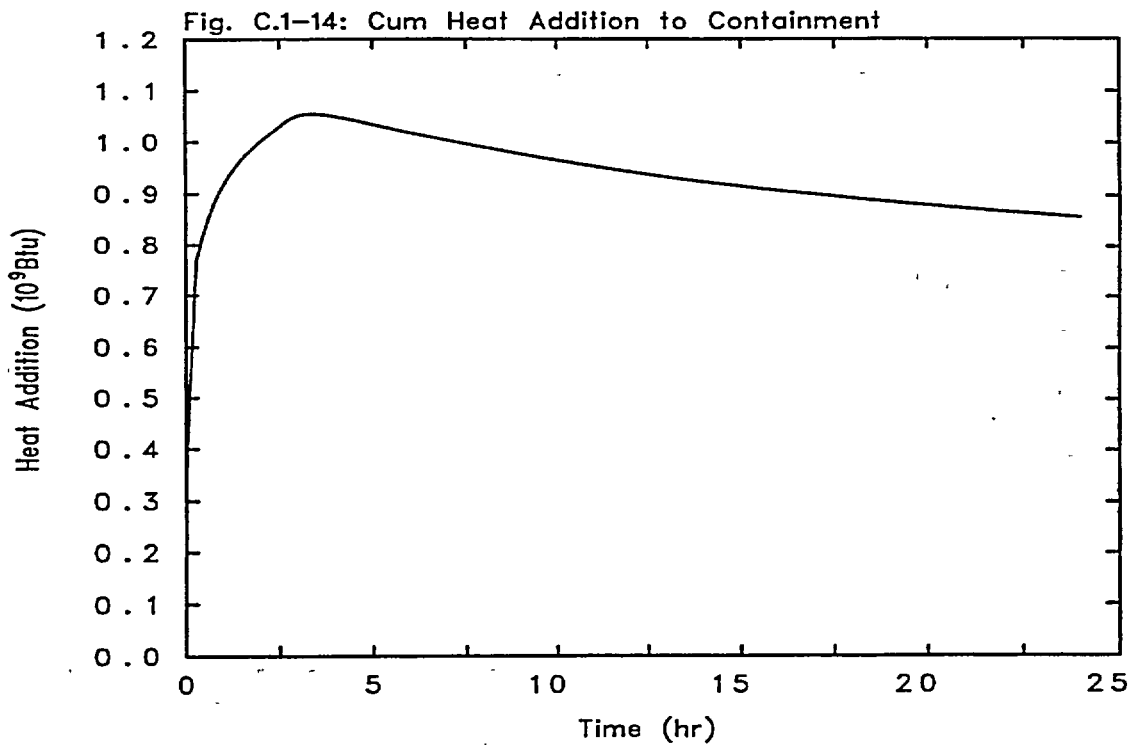
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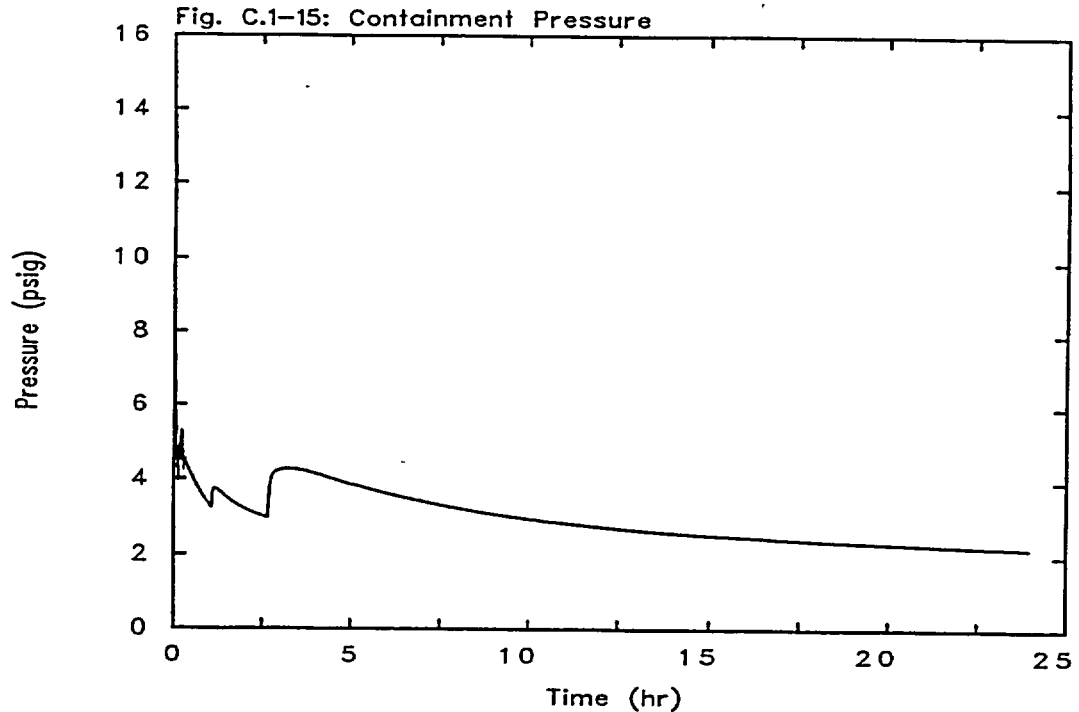
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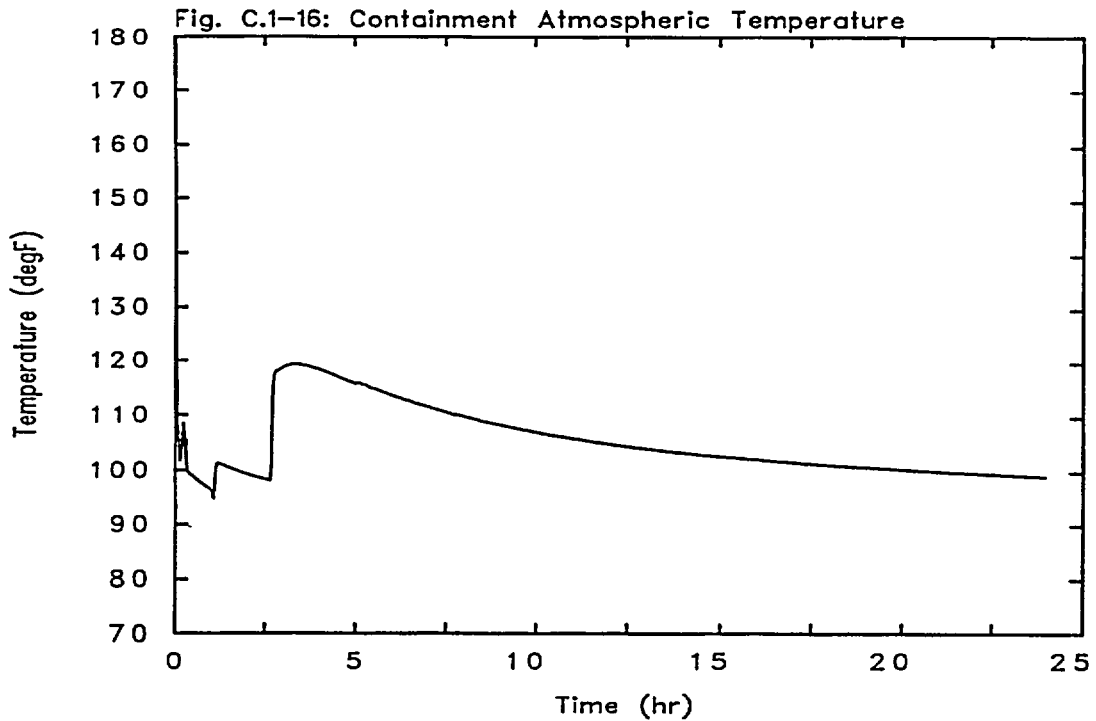
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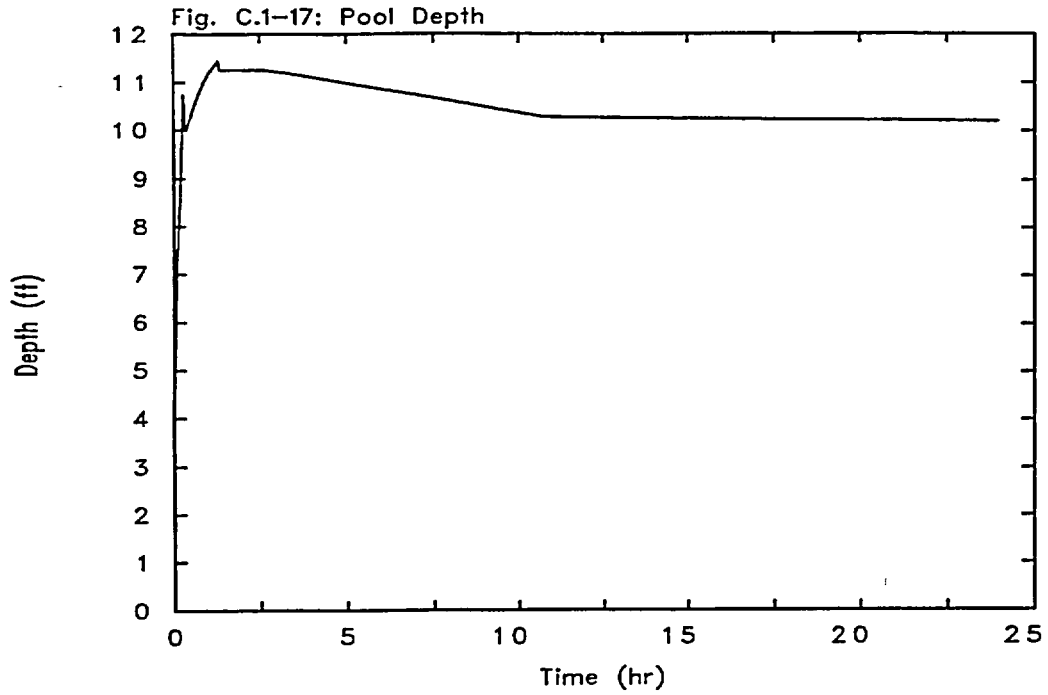
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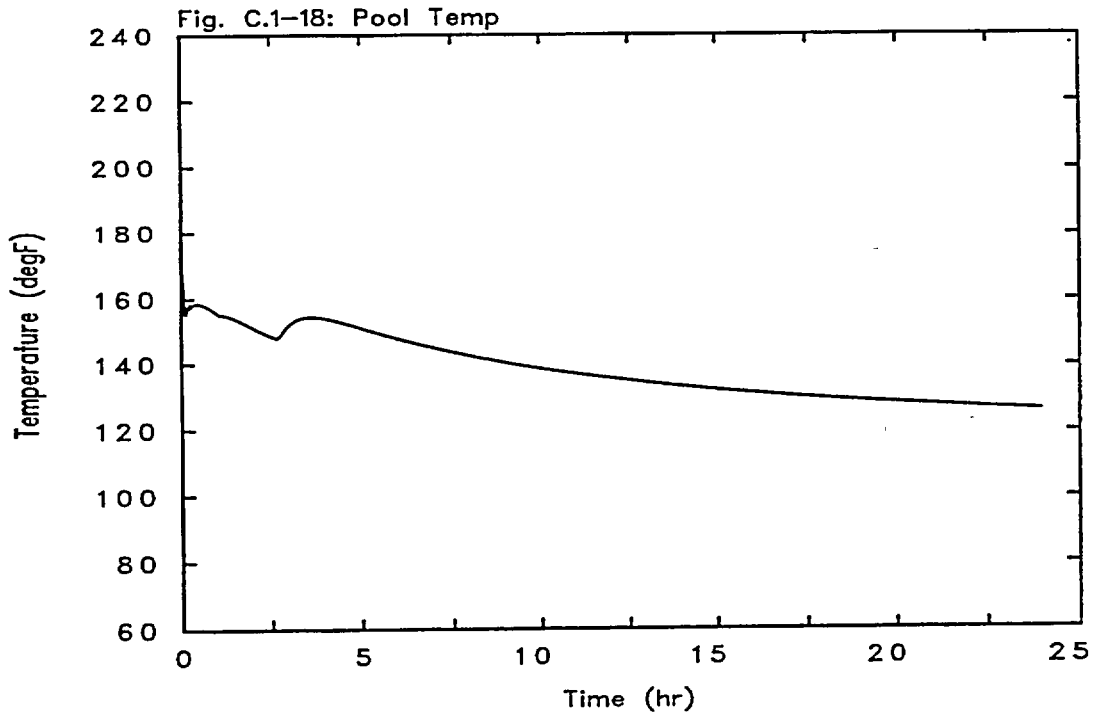
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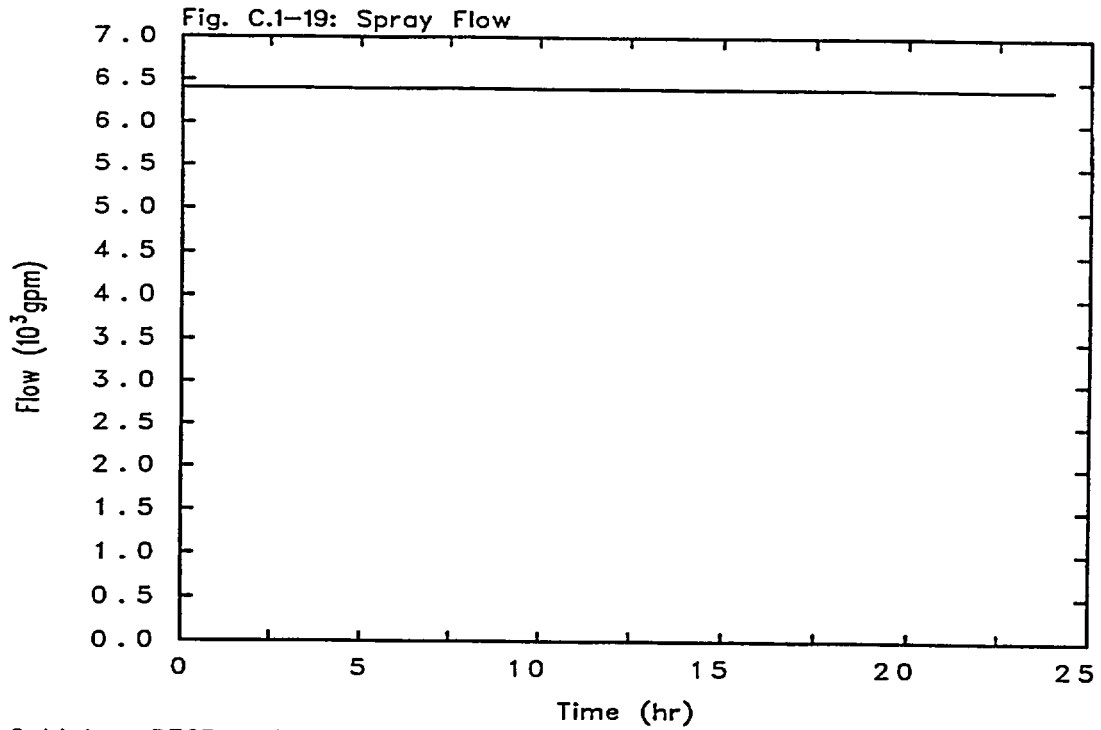
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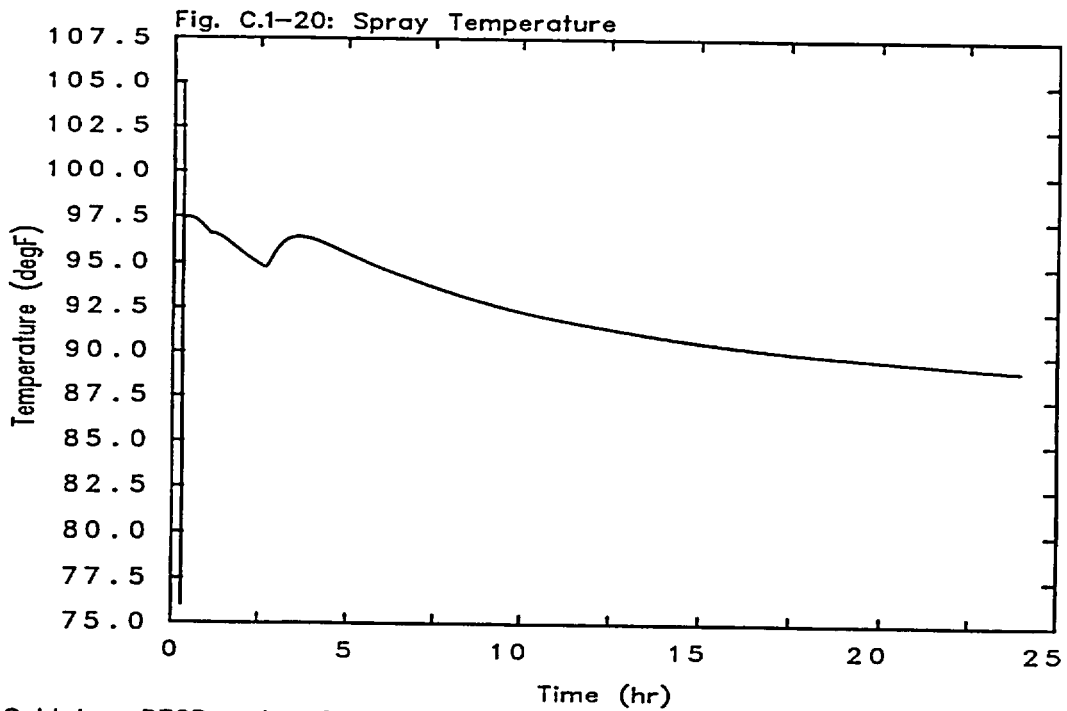
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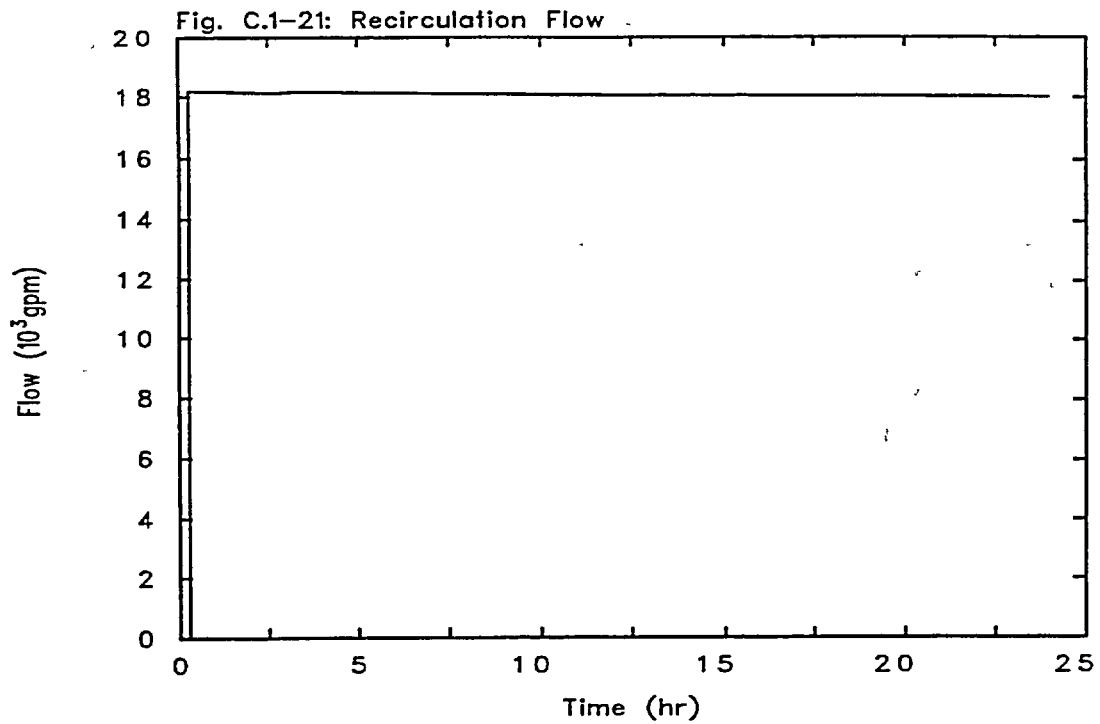
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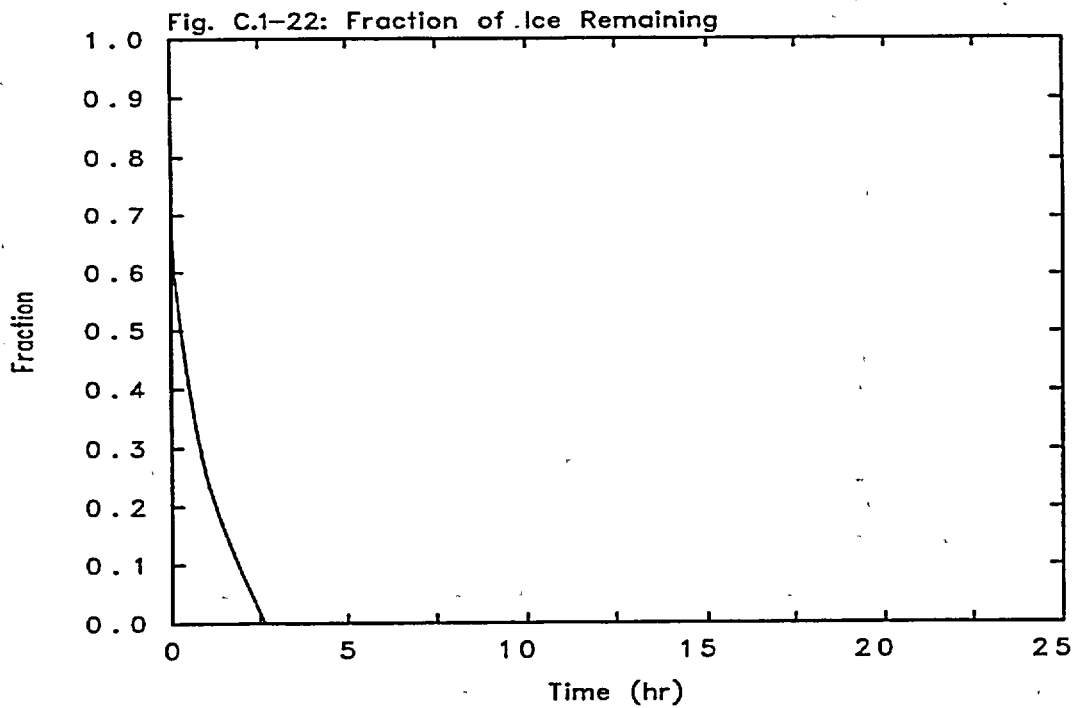
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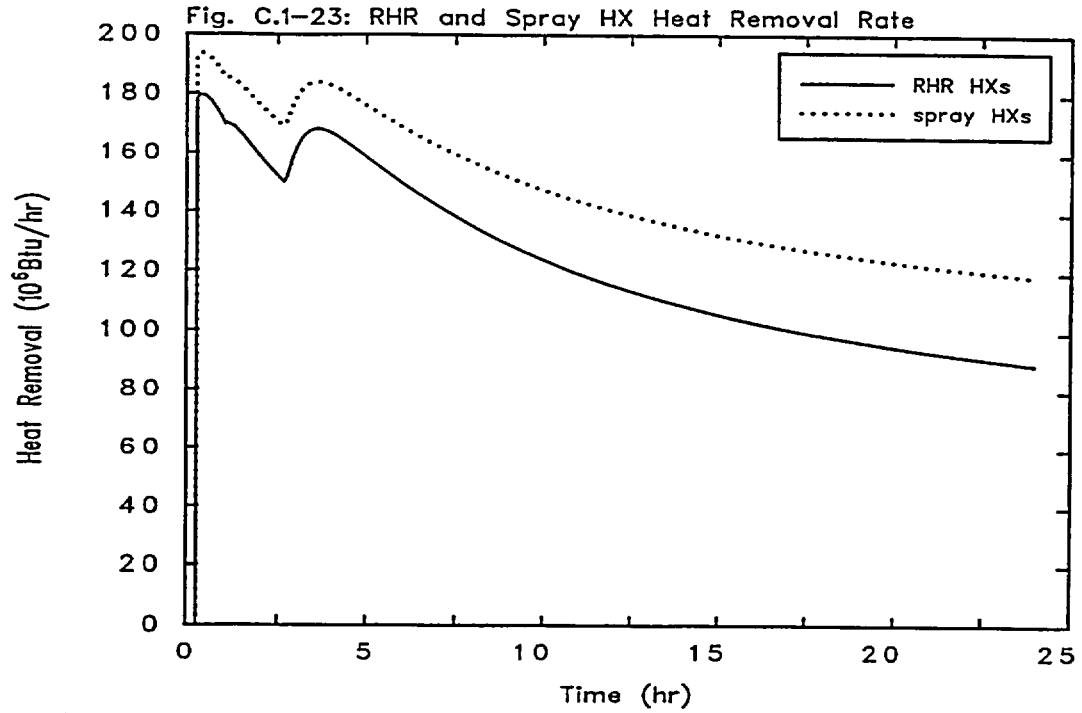
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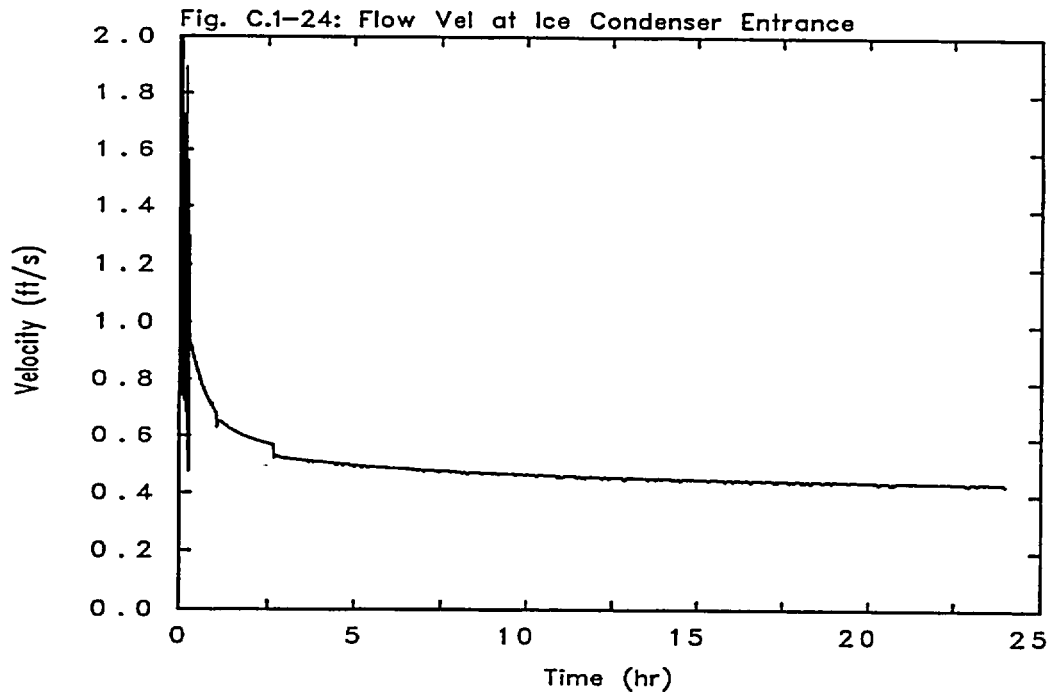
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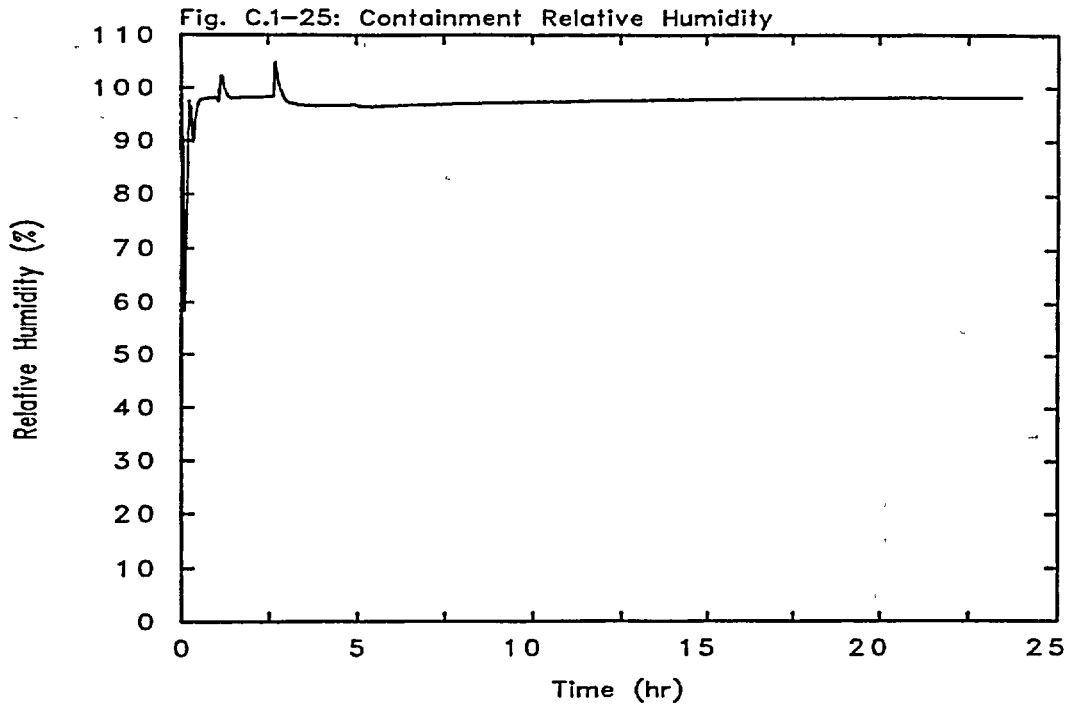
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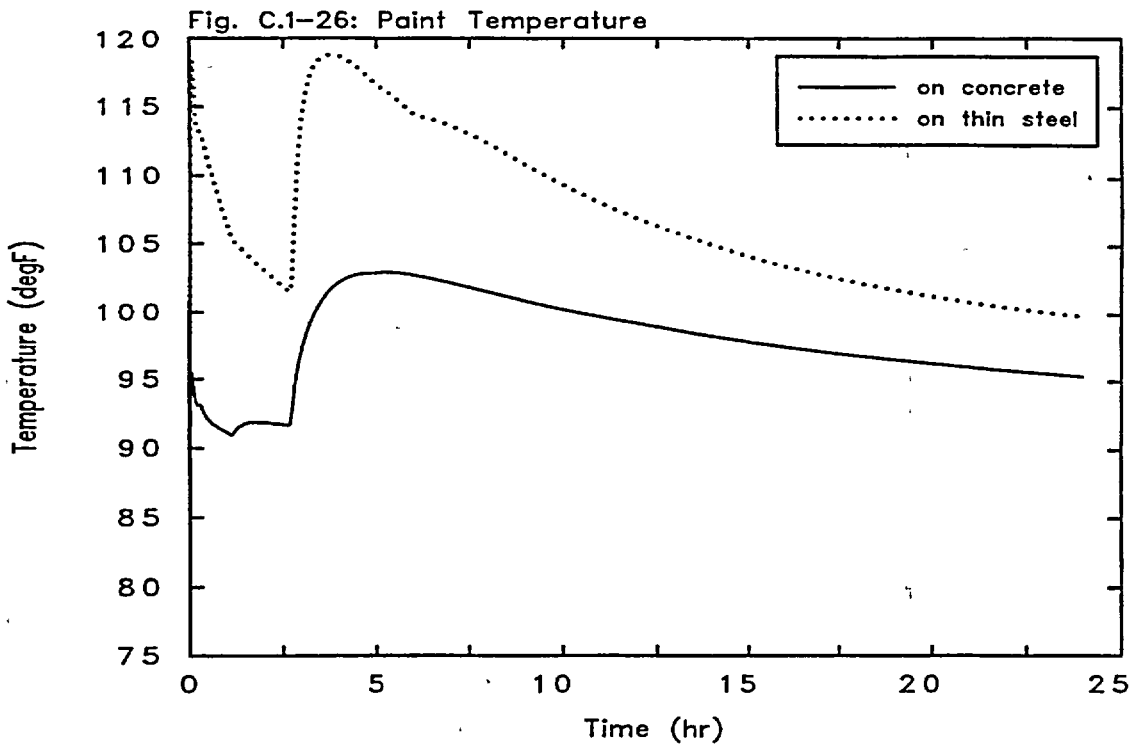
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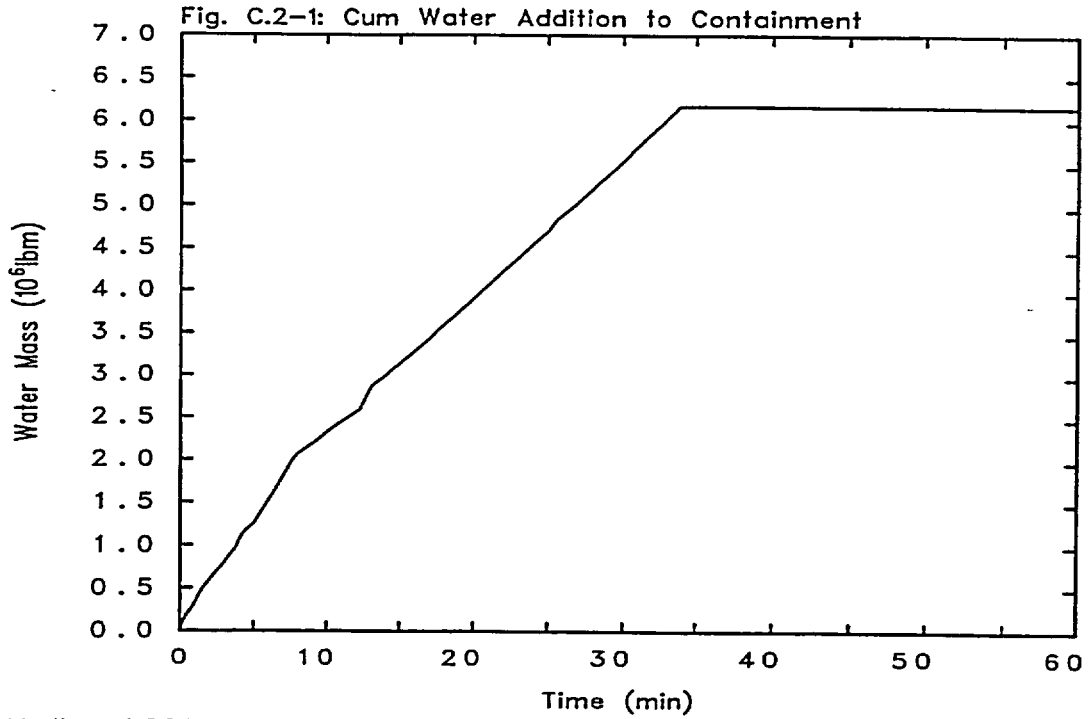
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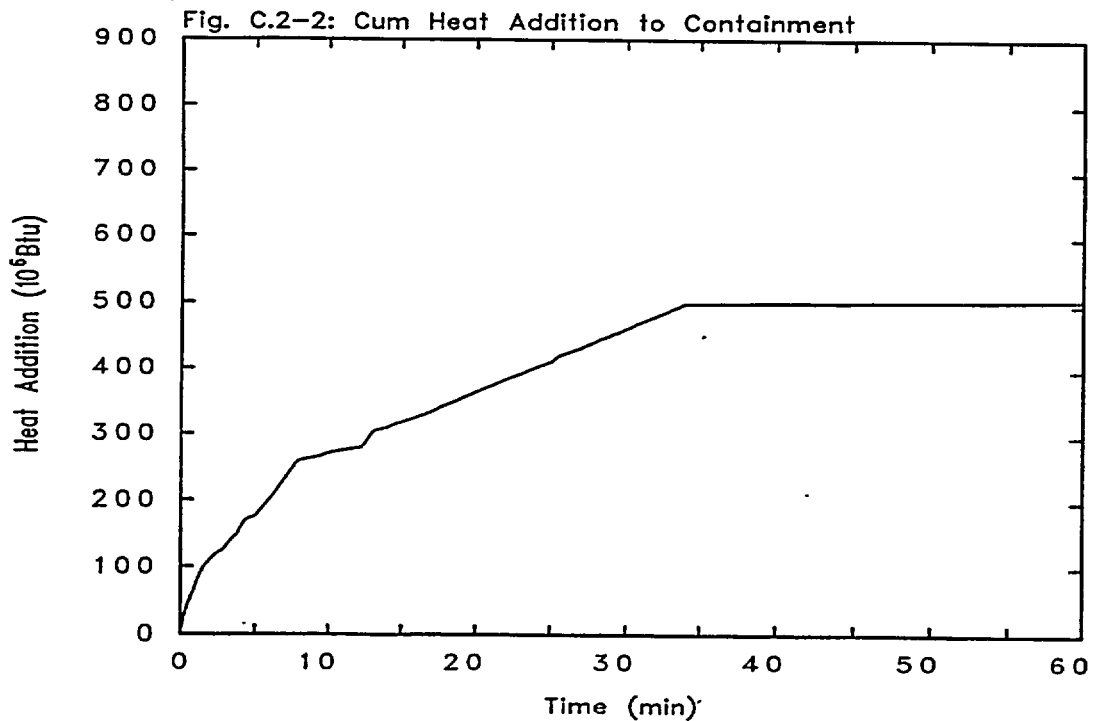
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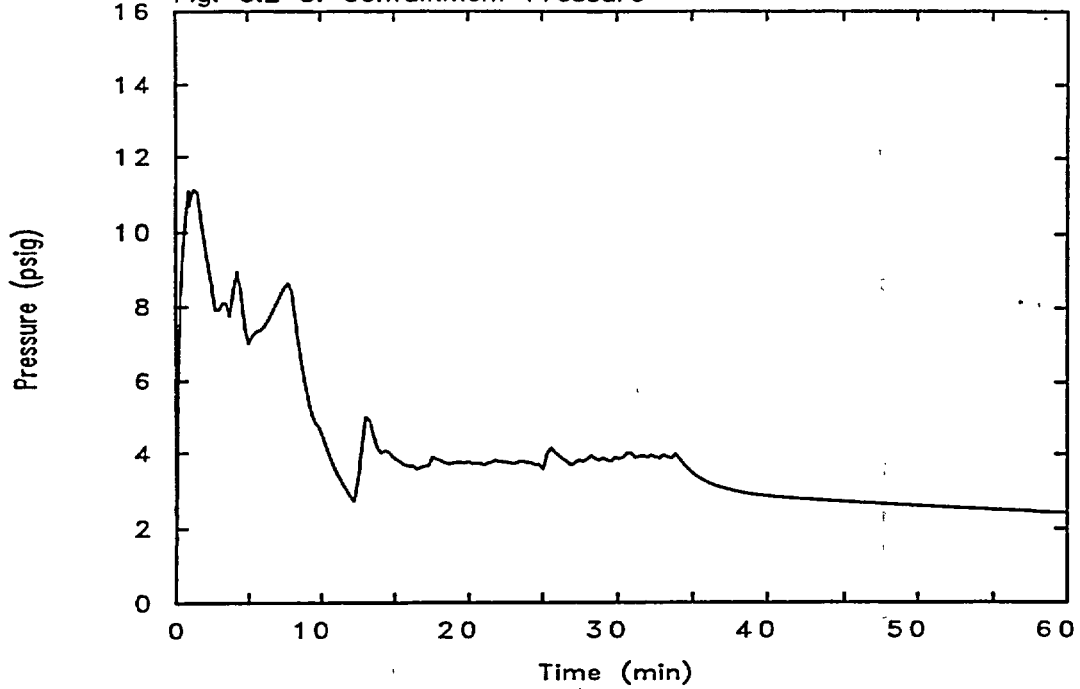


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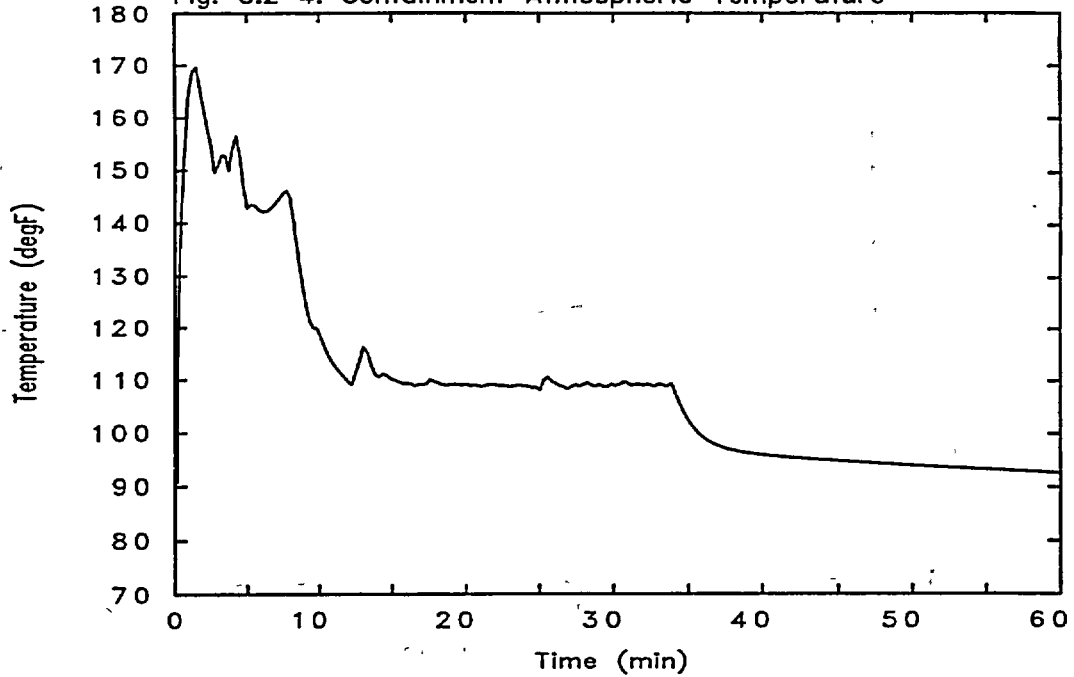
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Fig. C.2-3: Containment Pressure

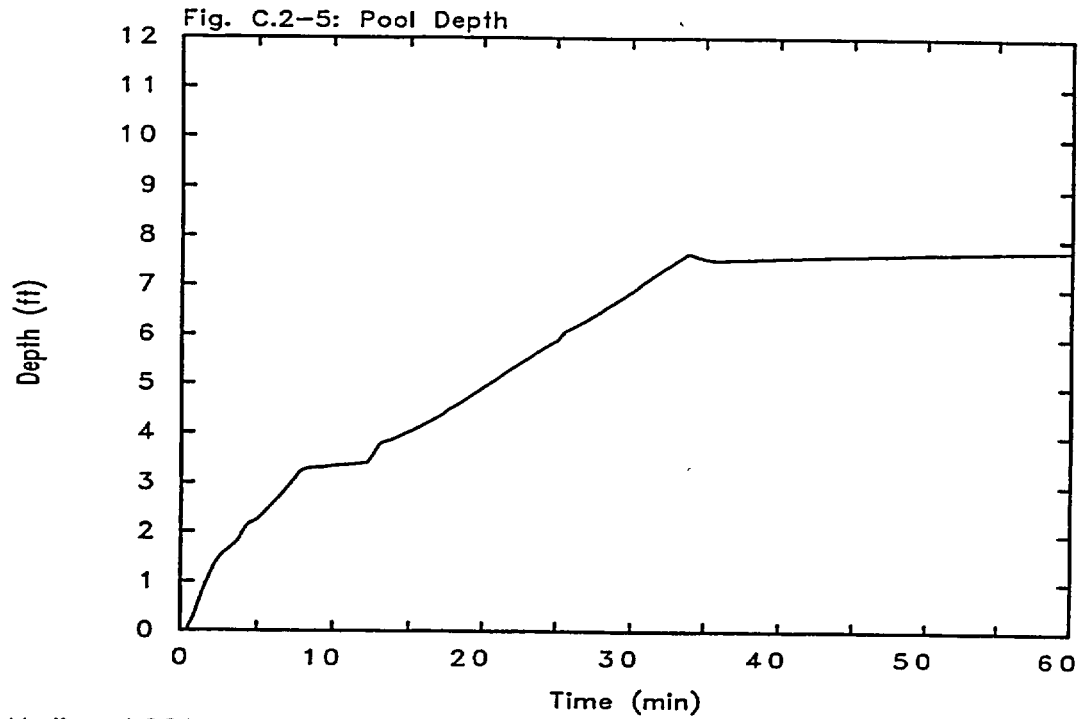


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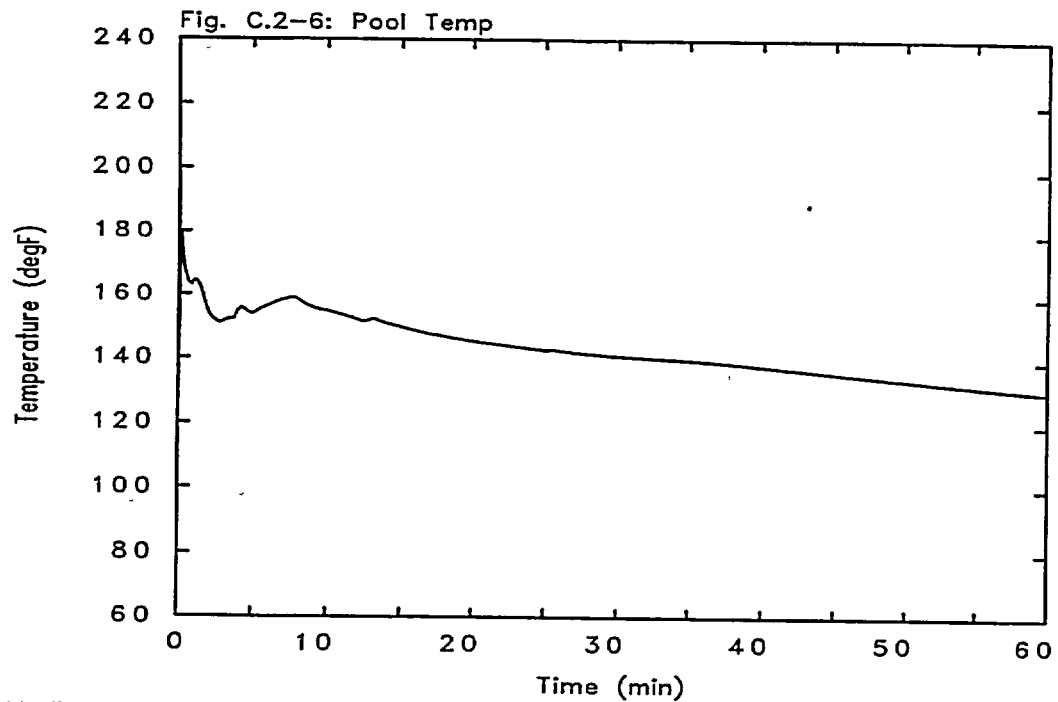
Fig. C.2-4: Containment Atmospheric Temperature



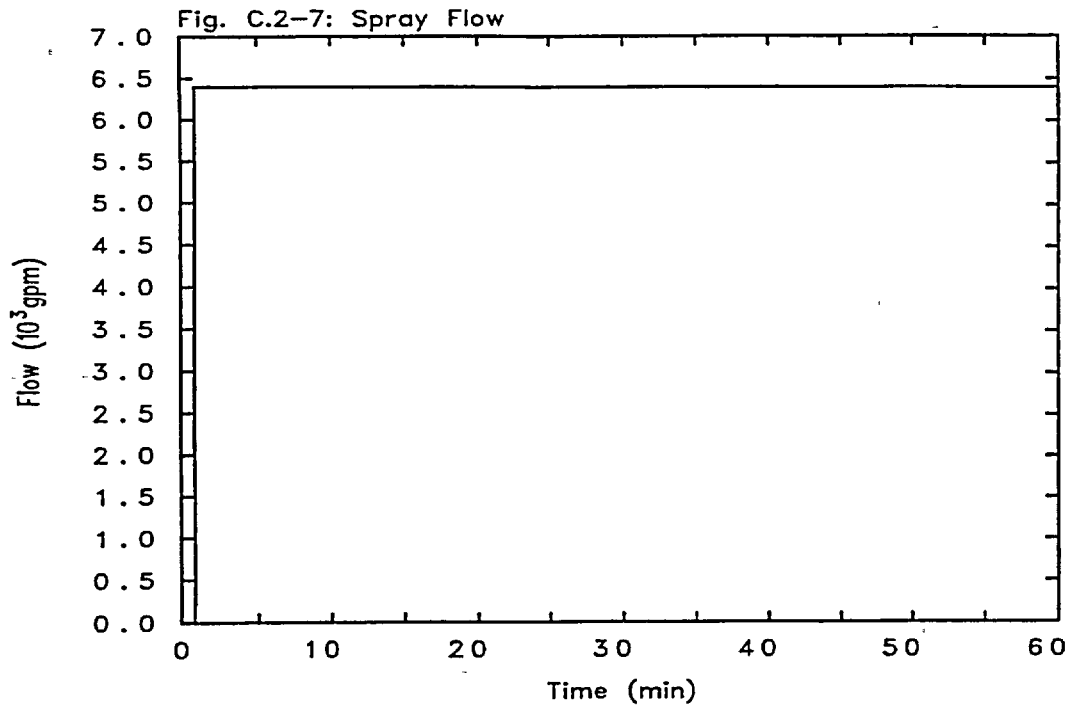
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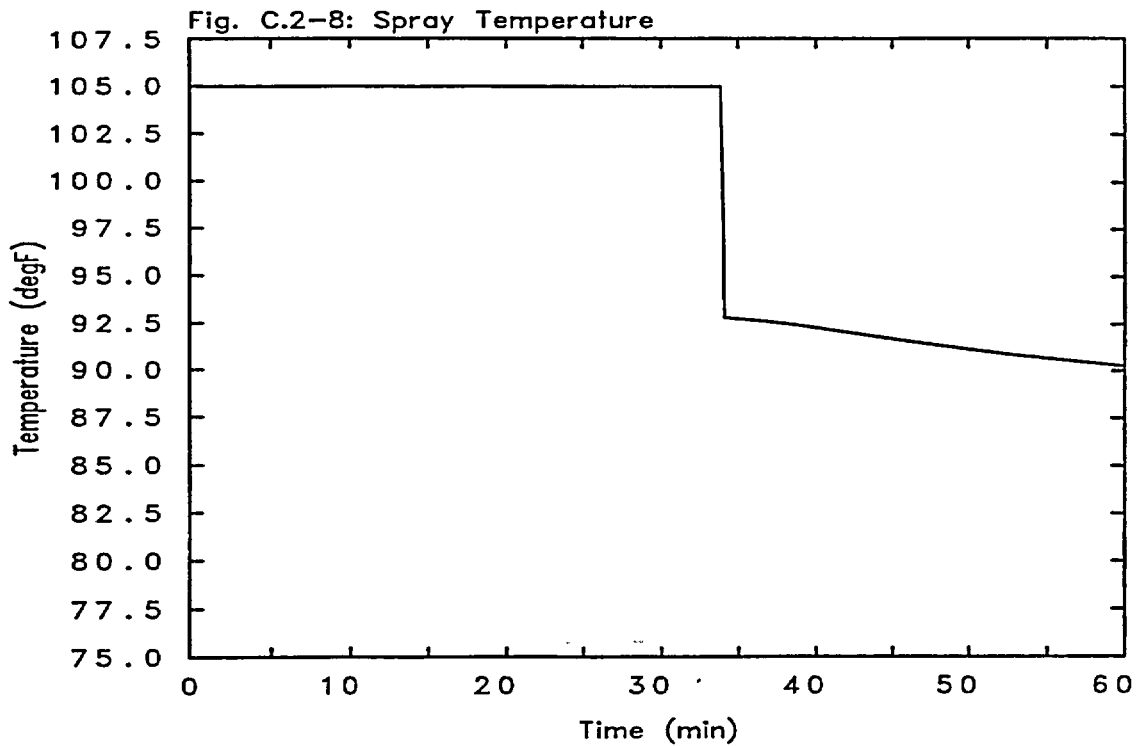
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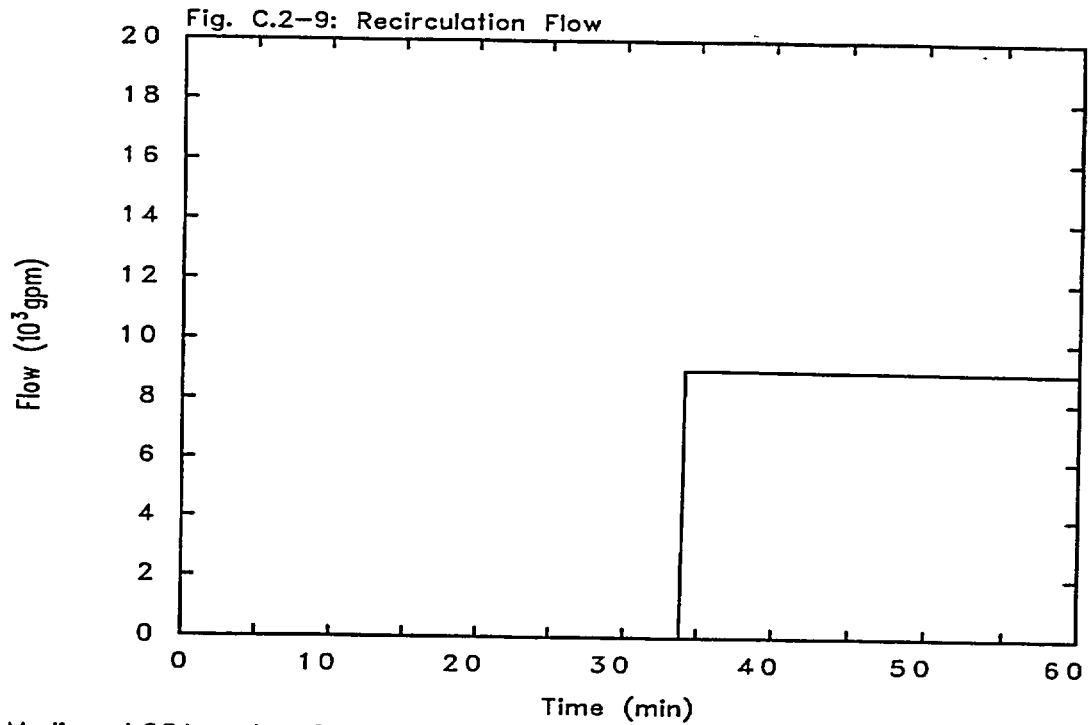
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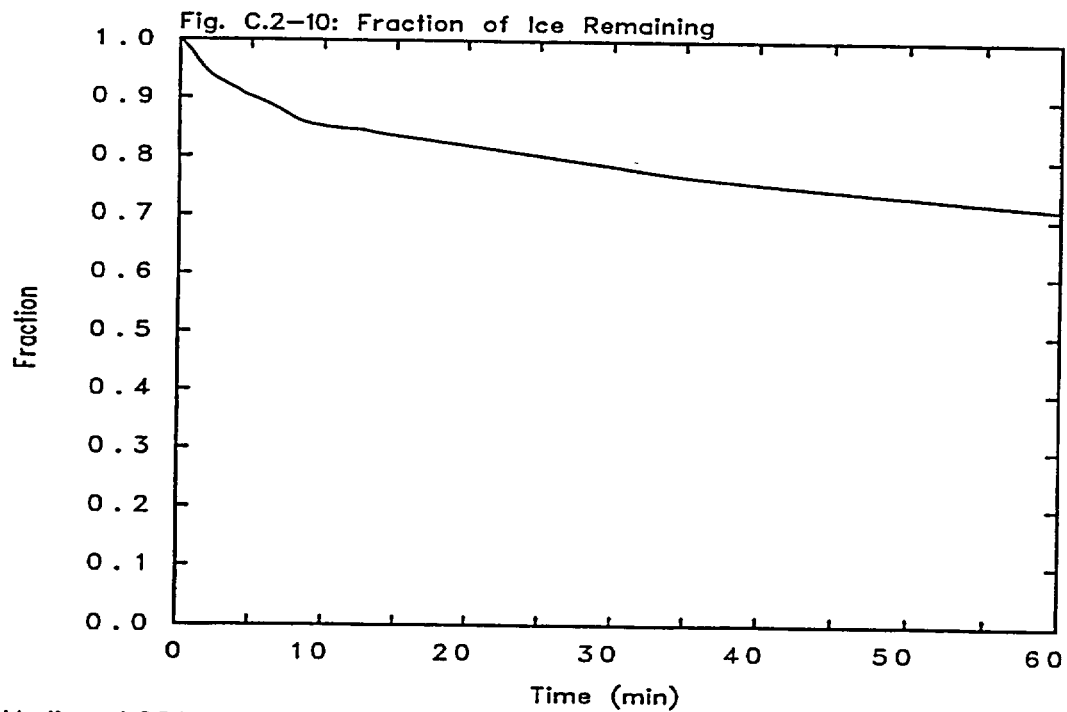
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Medium LOCA - Ice Condenser Containment
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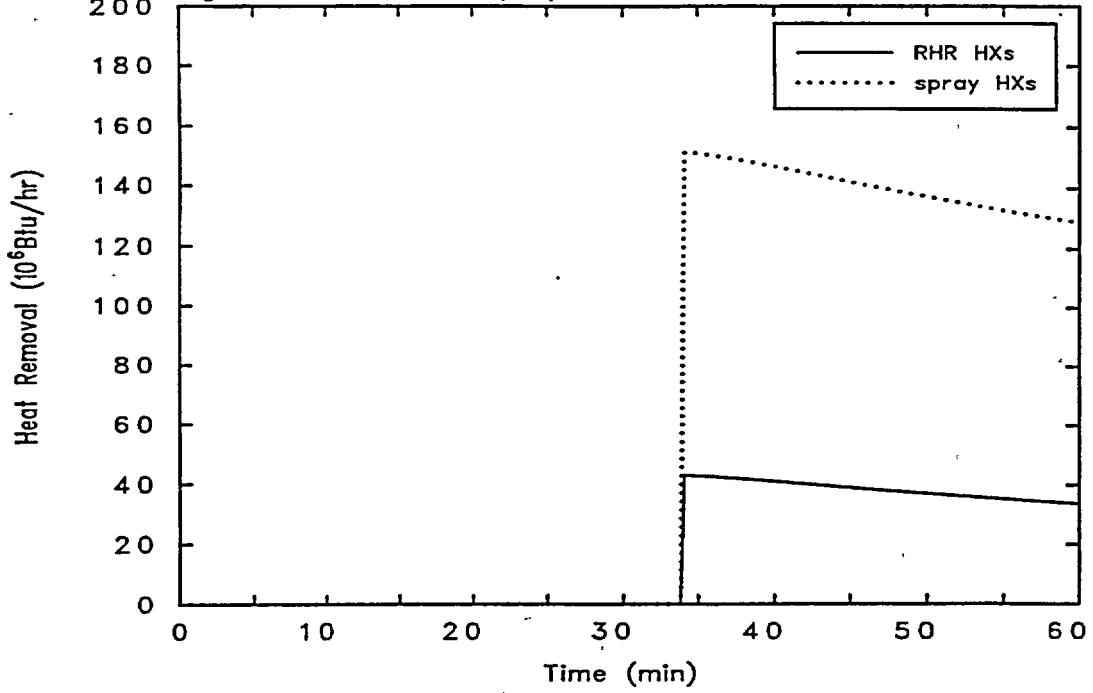


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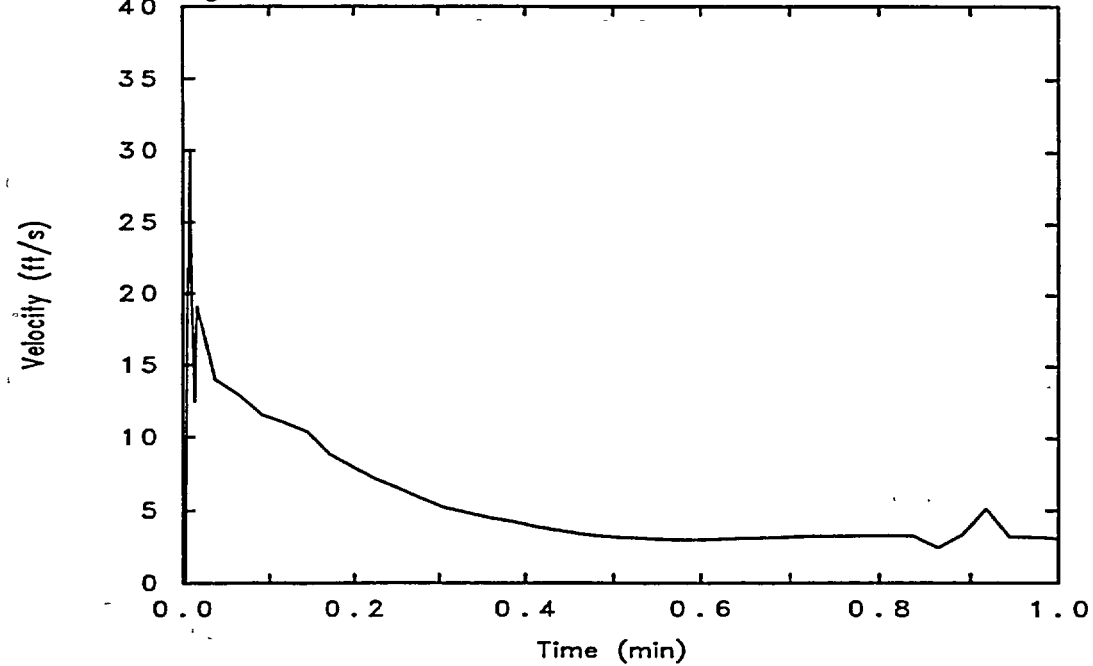
Medium LOCA - Ice Condenser Containment
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 CFVALU.262

Fig. C.2-11: RHR and Spray HX Heat Removal Rate



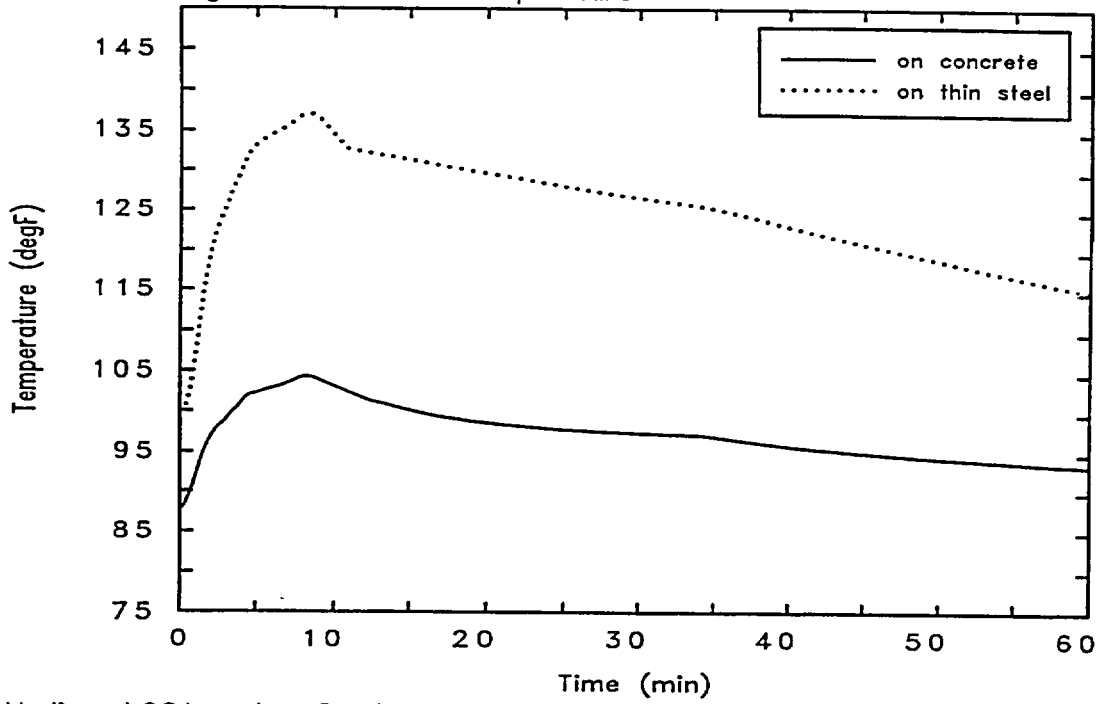
Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC

Fig. C.2-12: Flow Vel at Ice Condenser Entrance



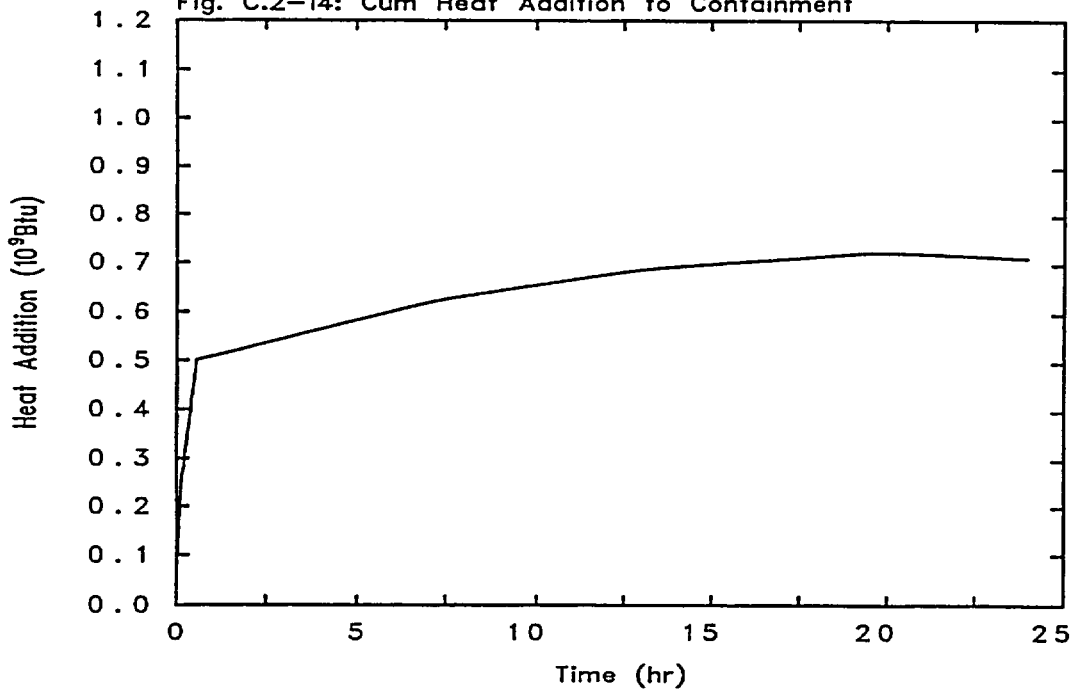
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FL-VELVAP.004

Fig. C.2-13: Paint Temperature

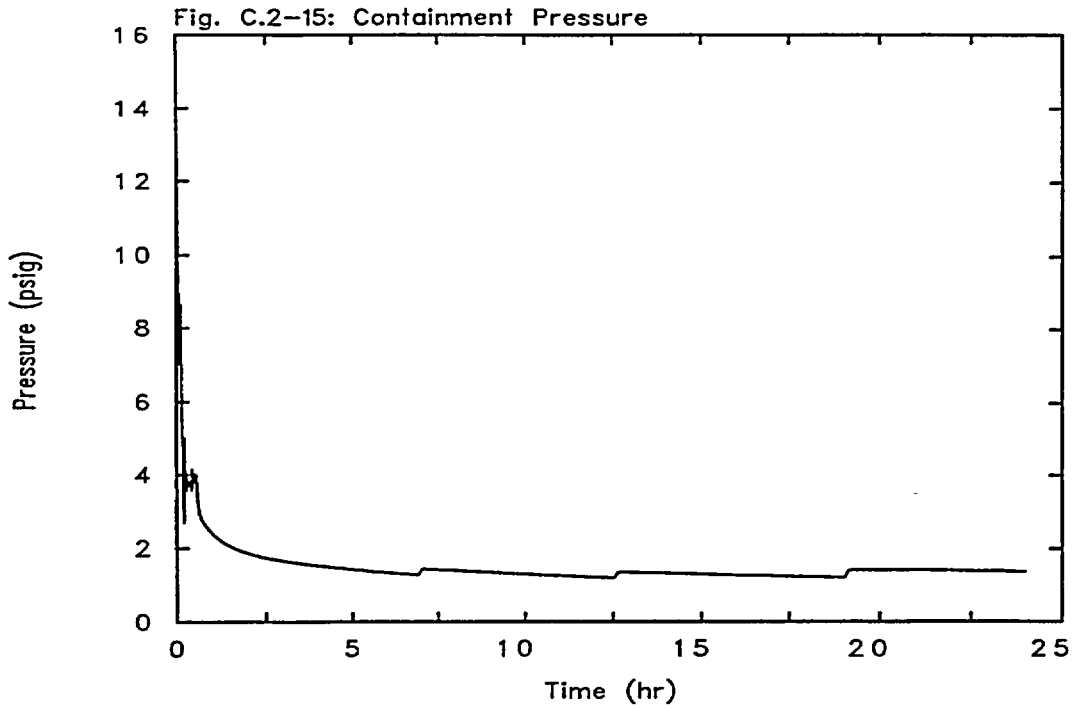


Medium LOCA - Ice Condenser Containment
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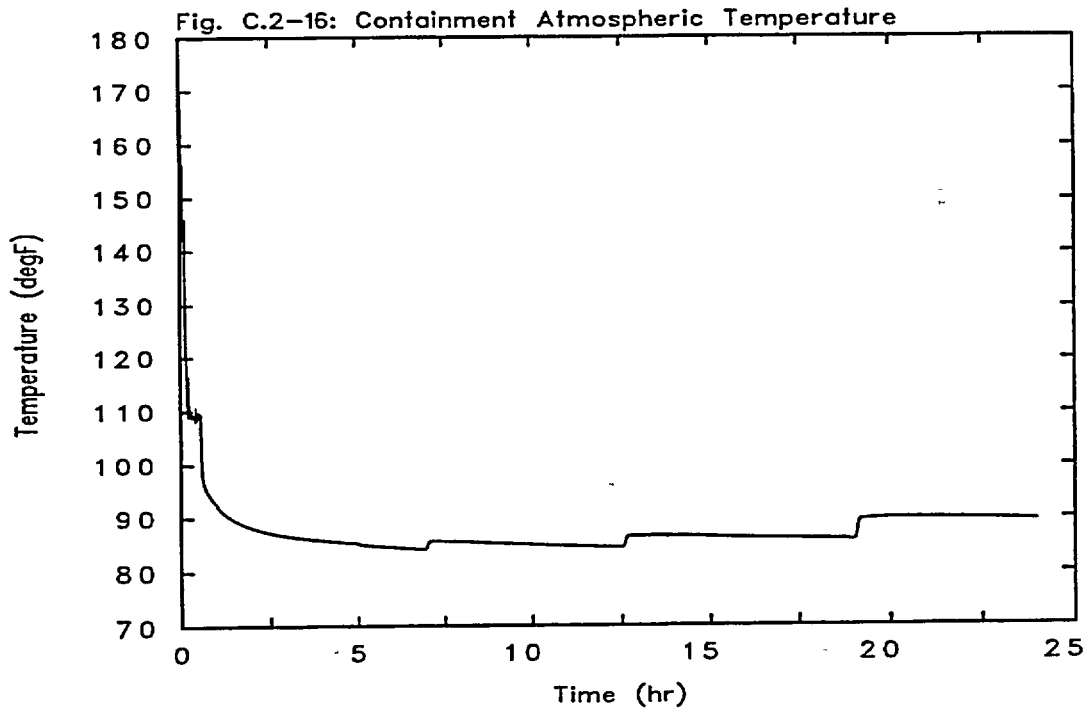
Fig. C.2-14: Cum Heat Addition to Containment



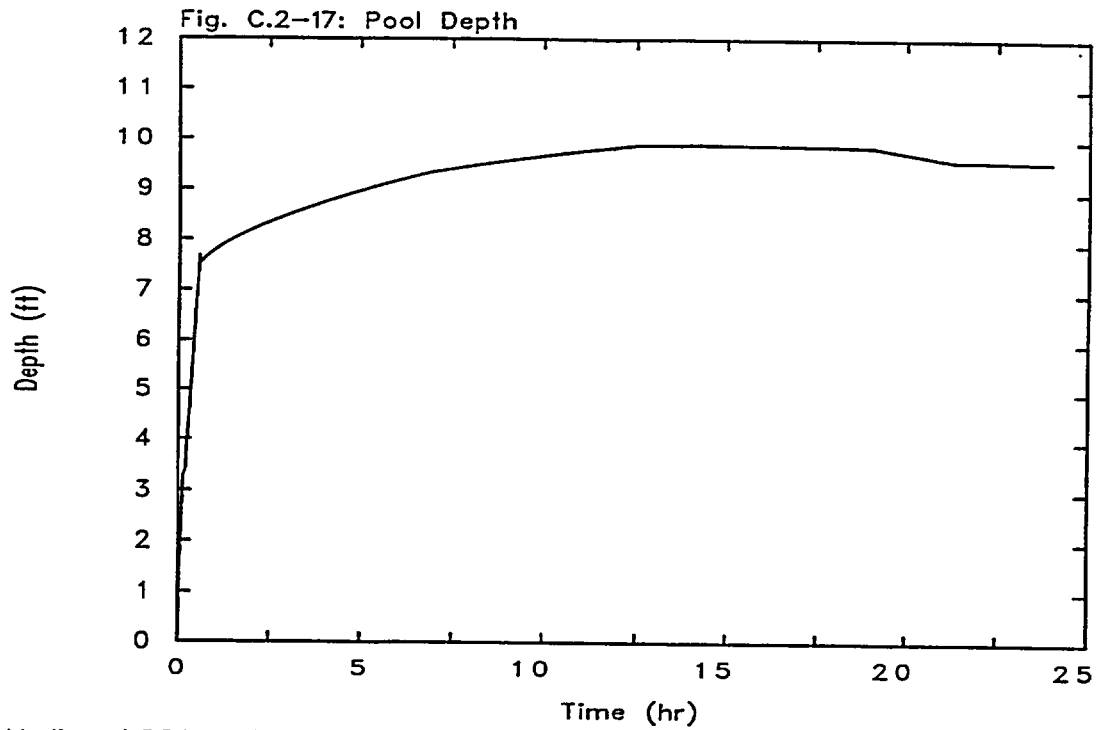
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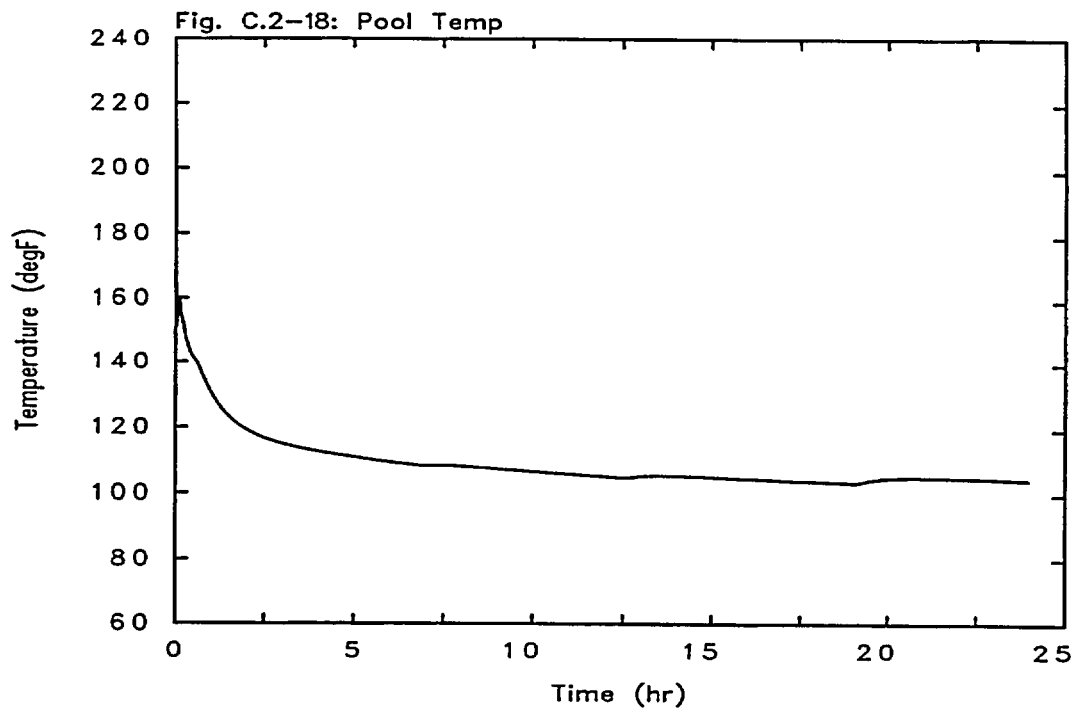
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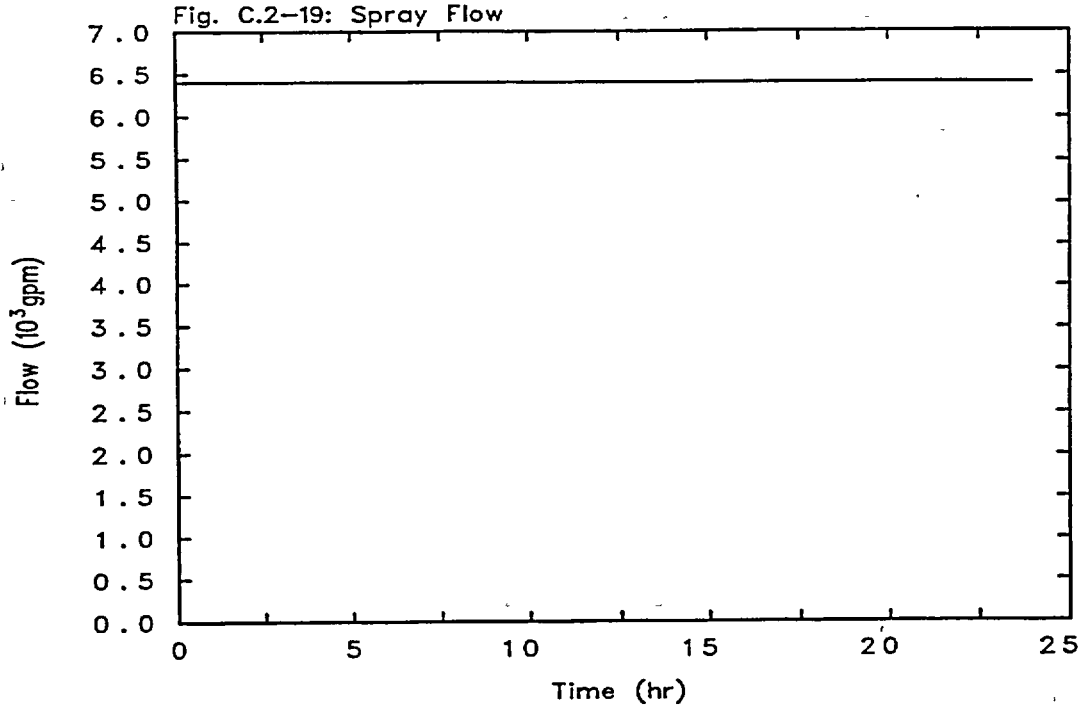
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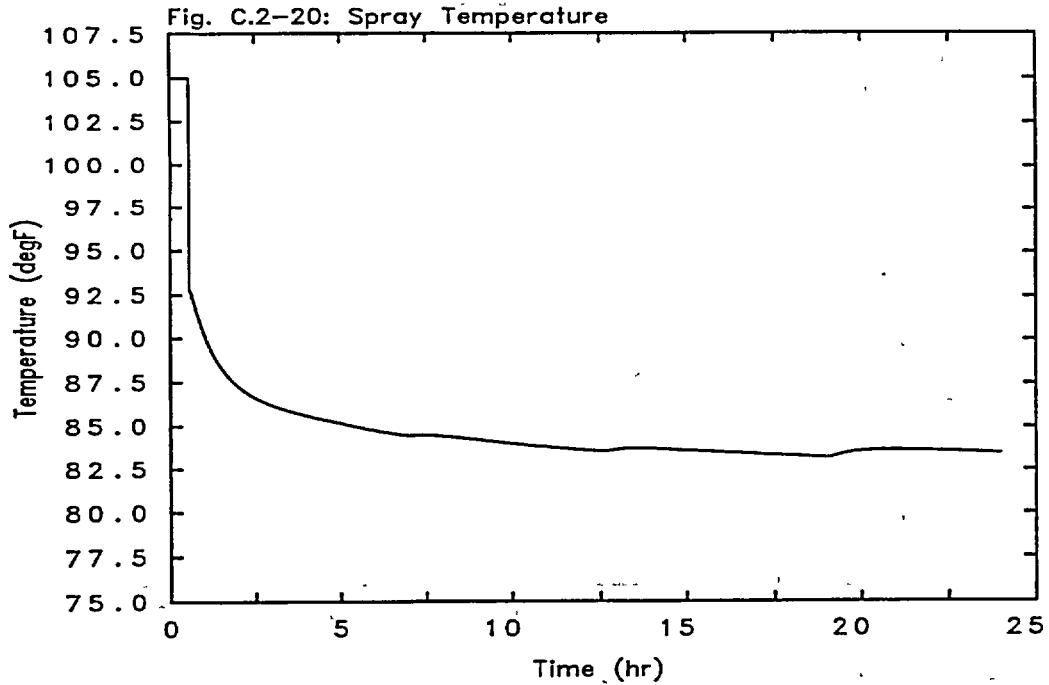
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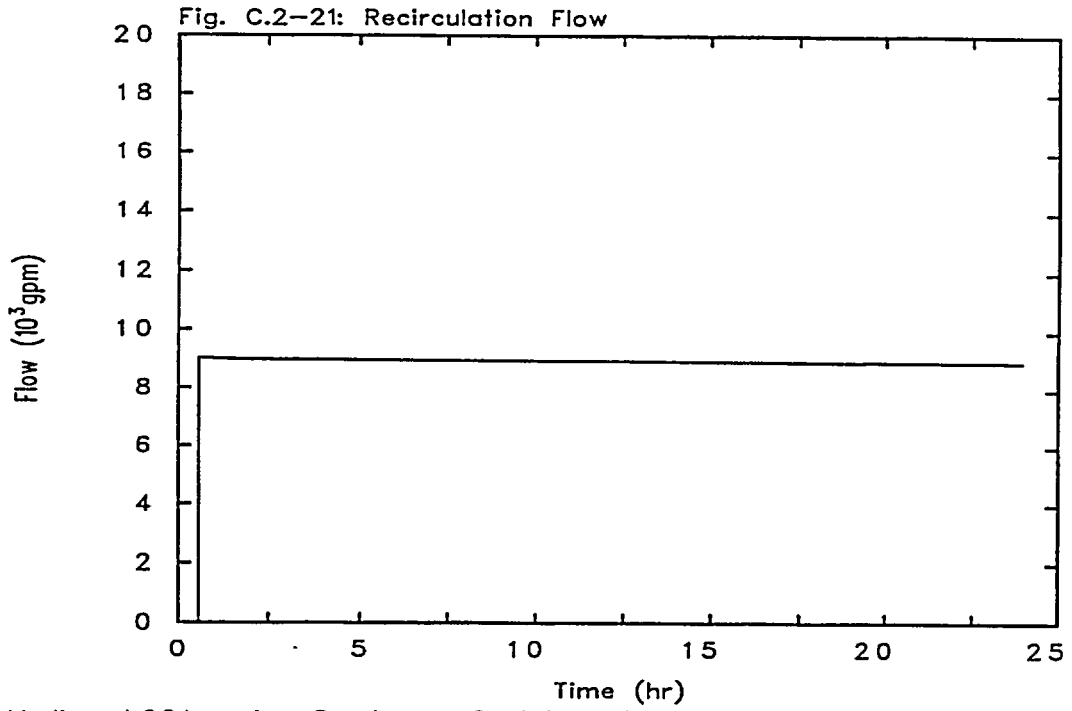
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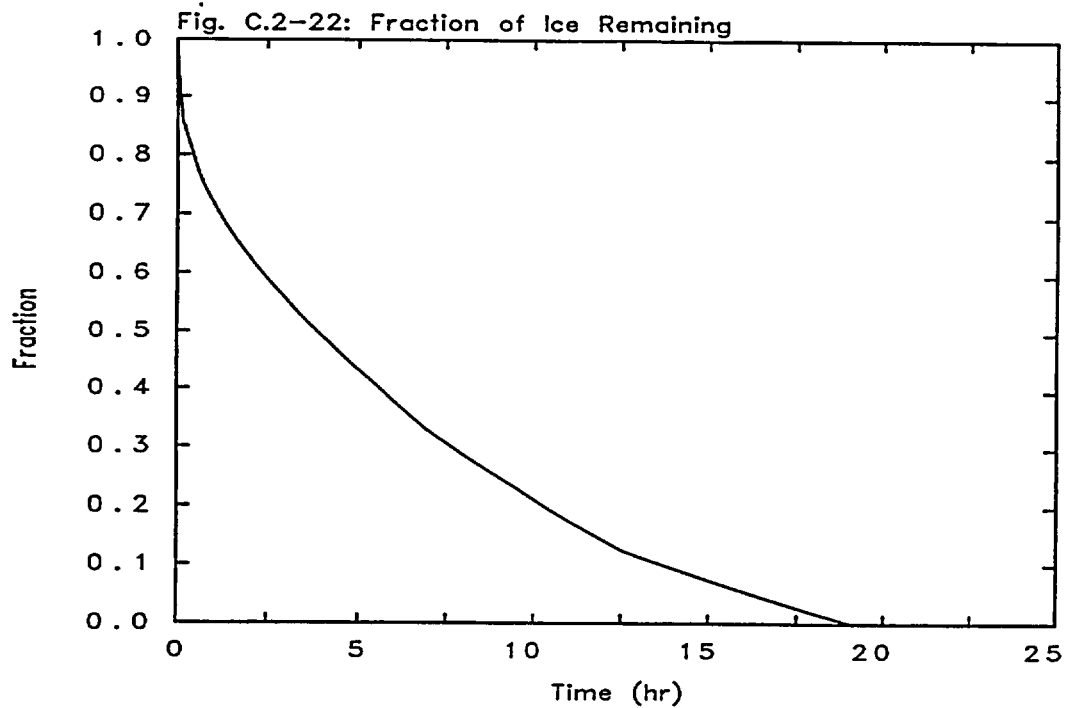
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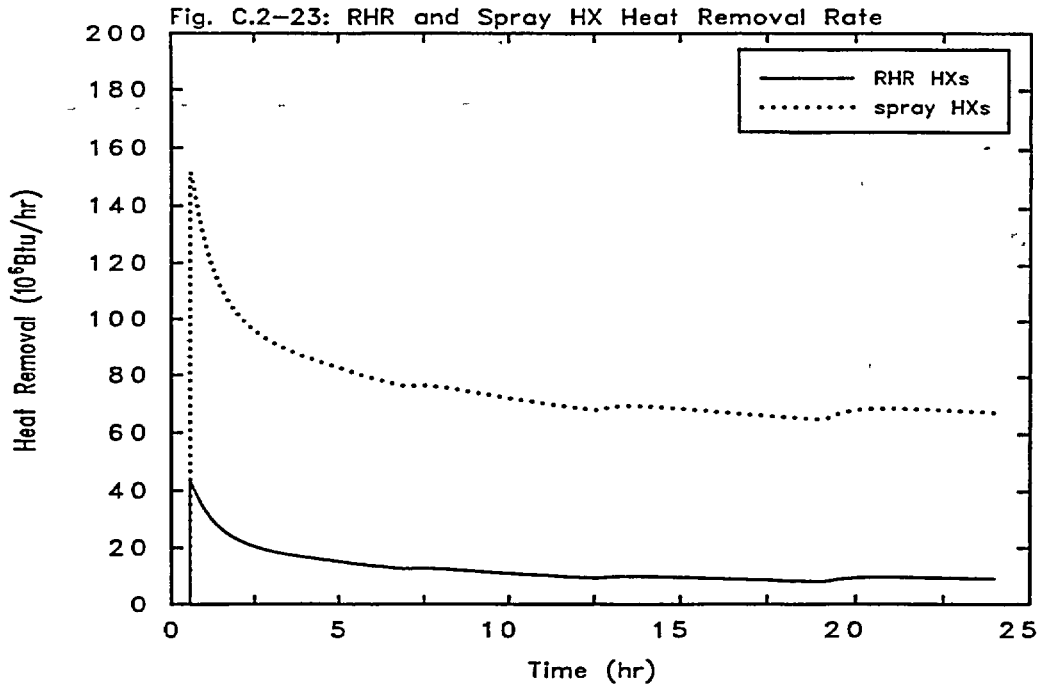
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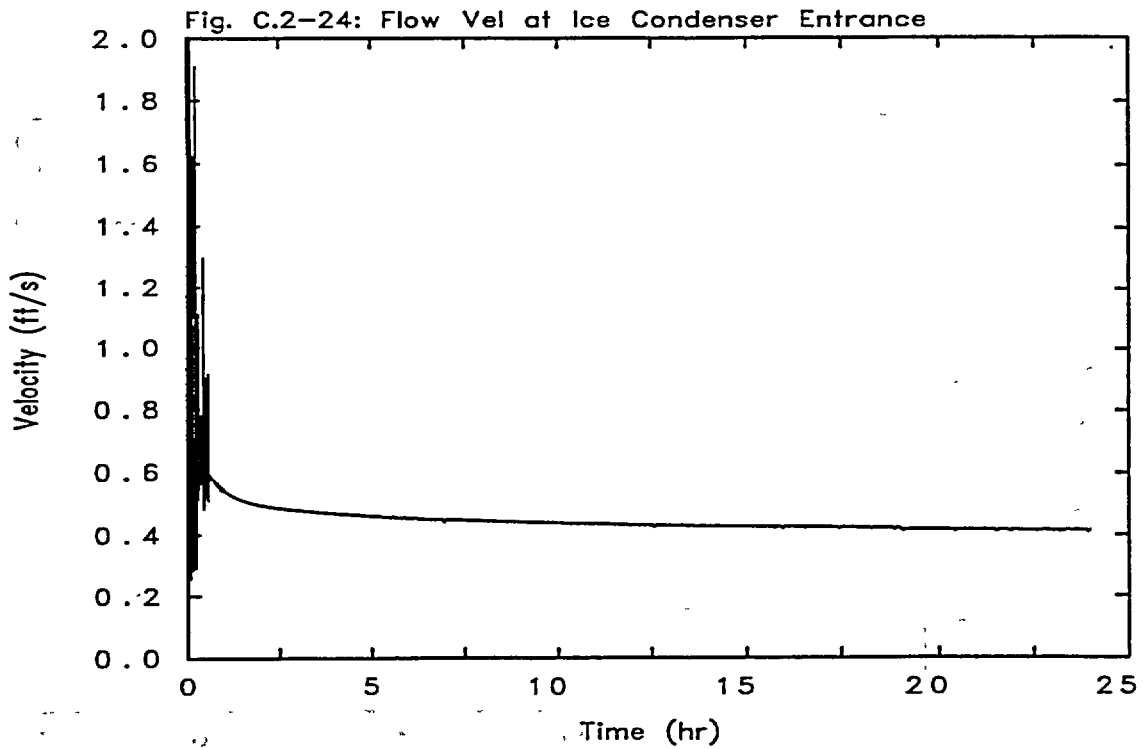
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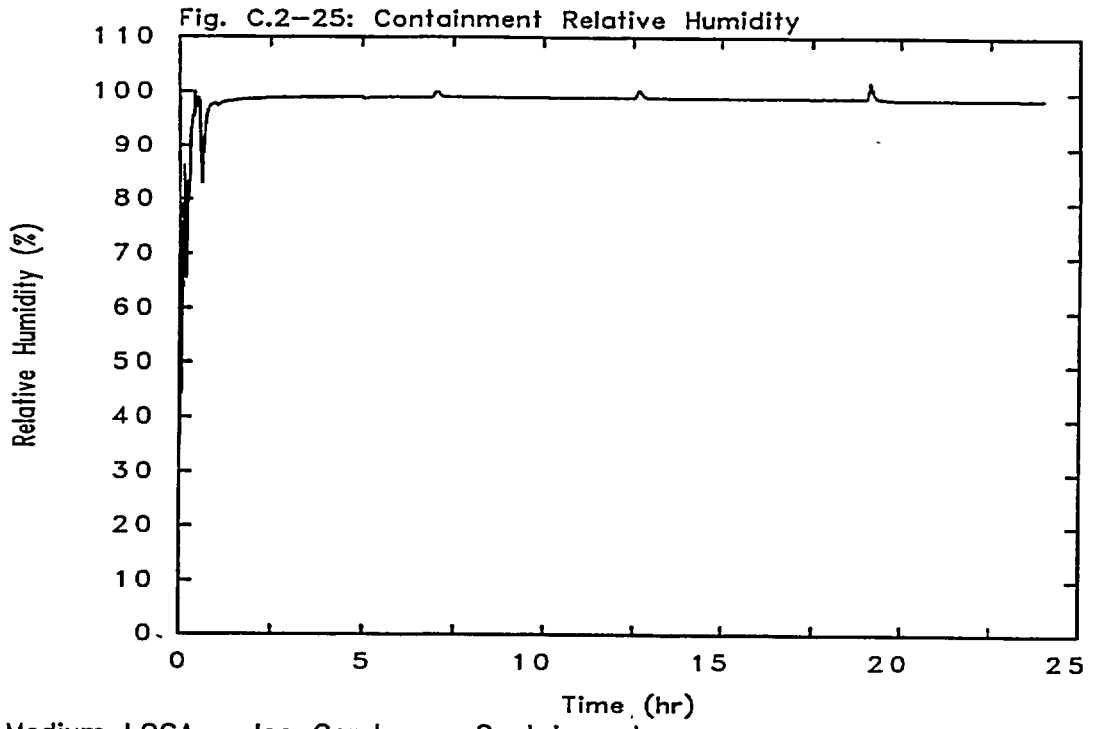
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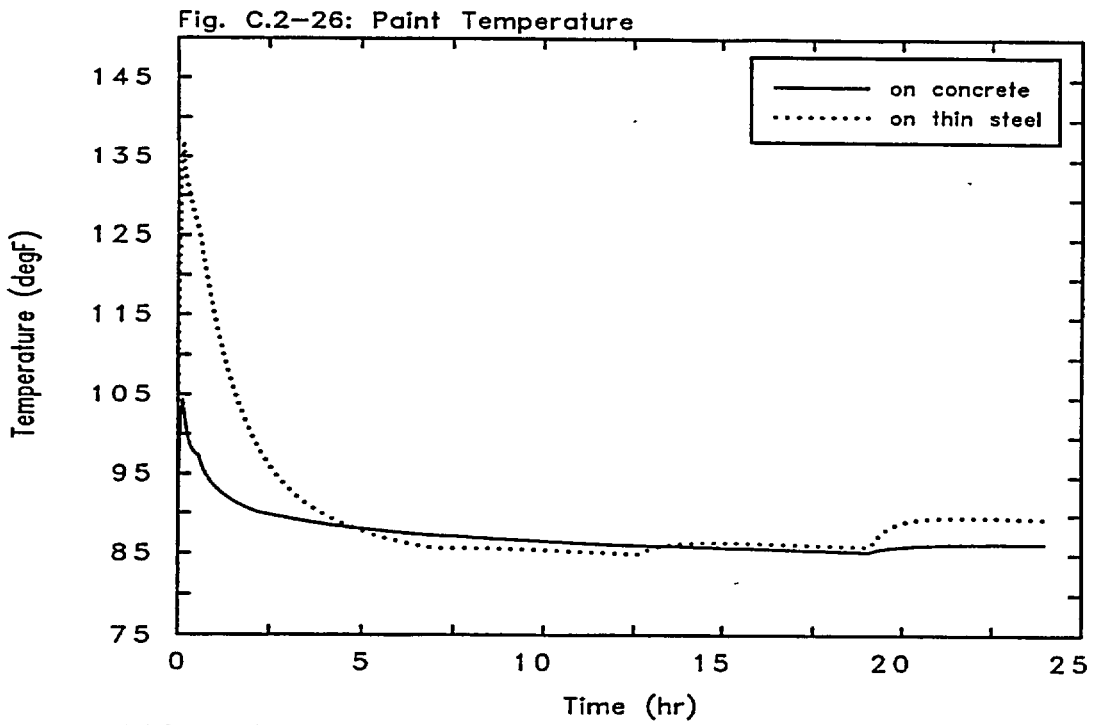
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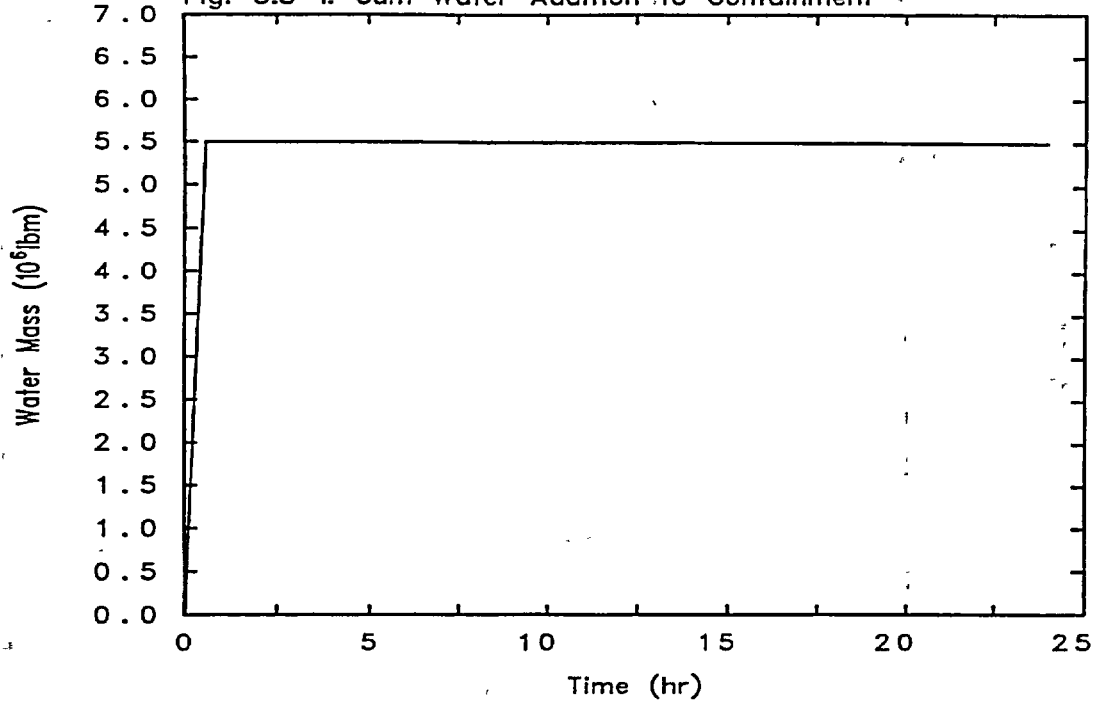


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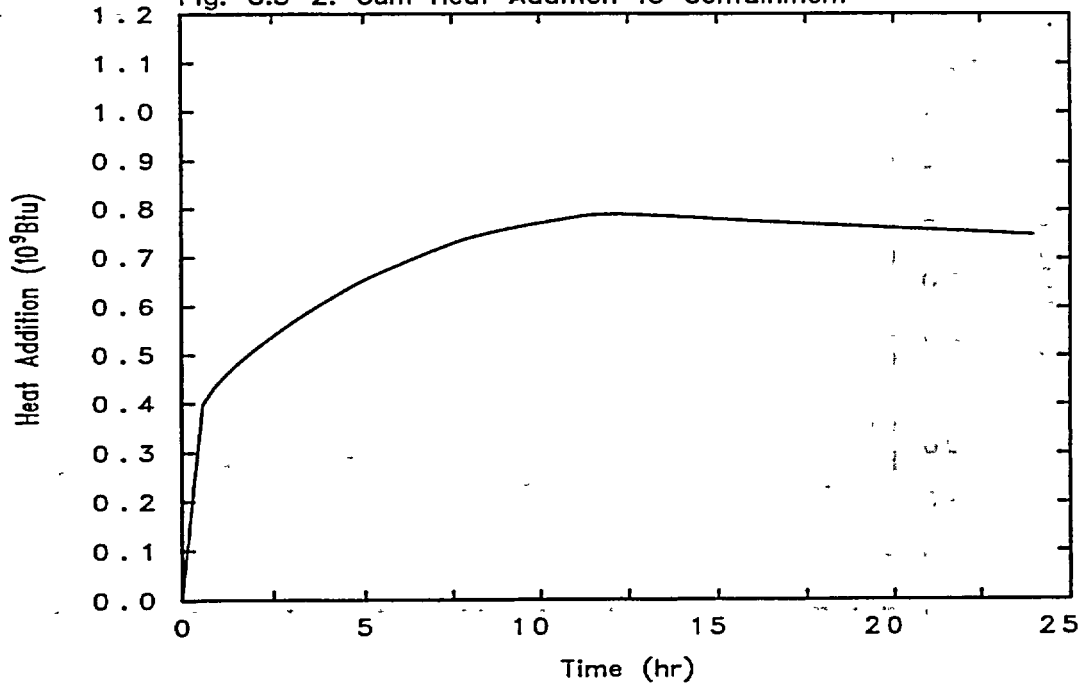
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Fig. C.3-1: Cum Water Addition to Containment

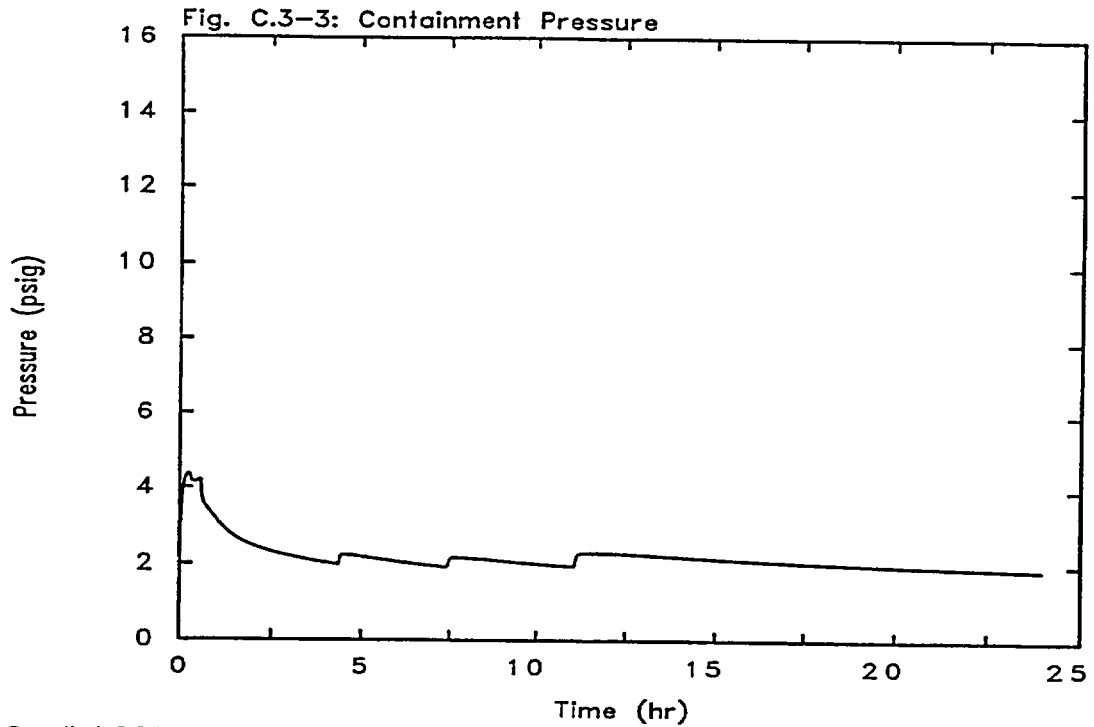


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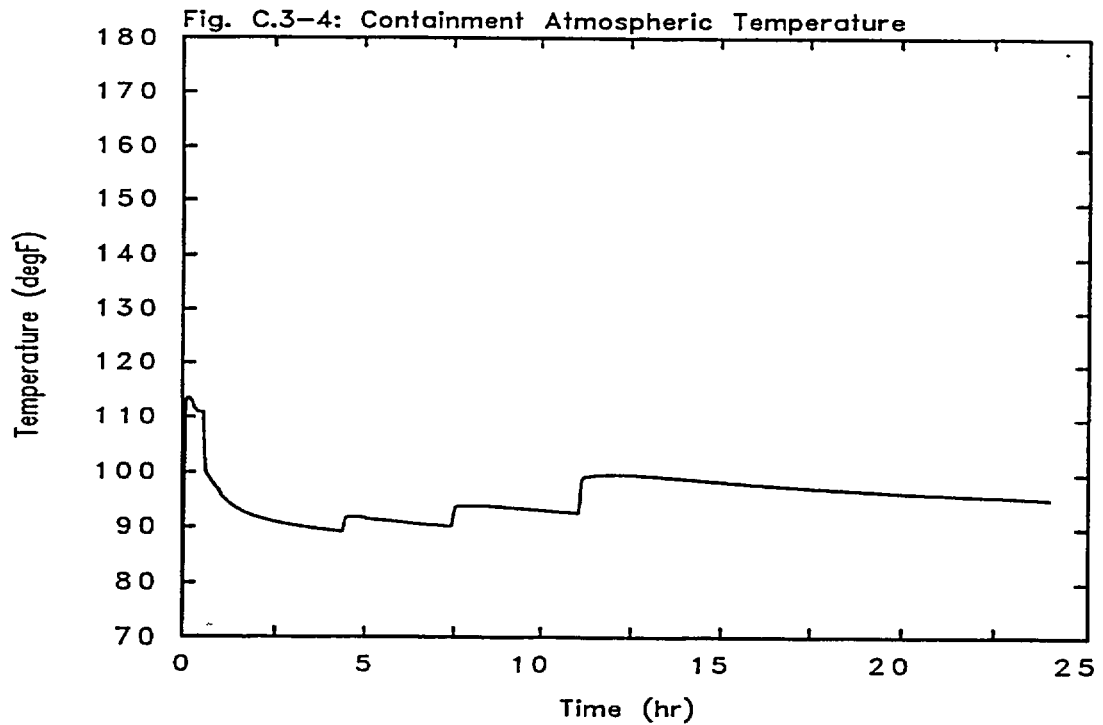
Fig. C.3-2: Cum Heat Addition to Containment



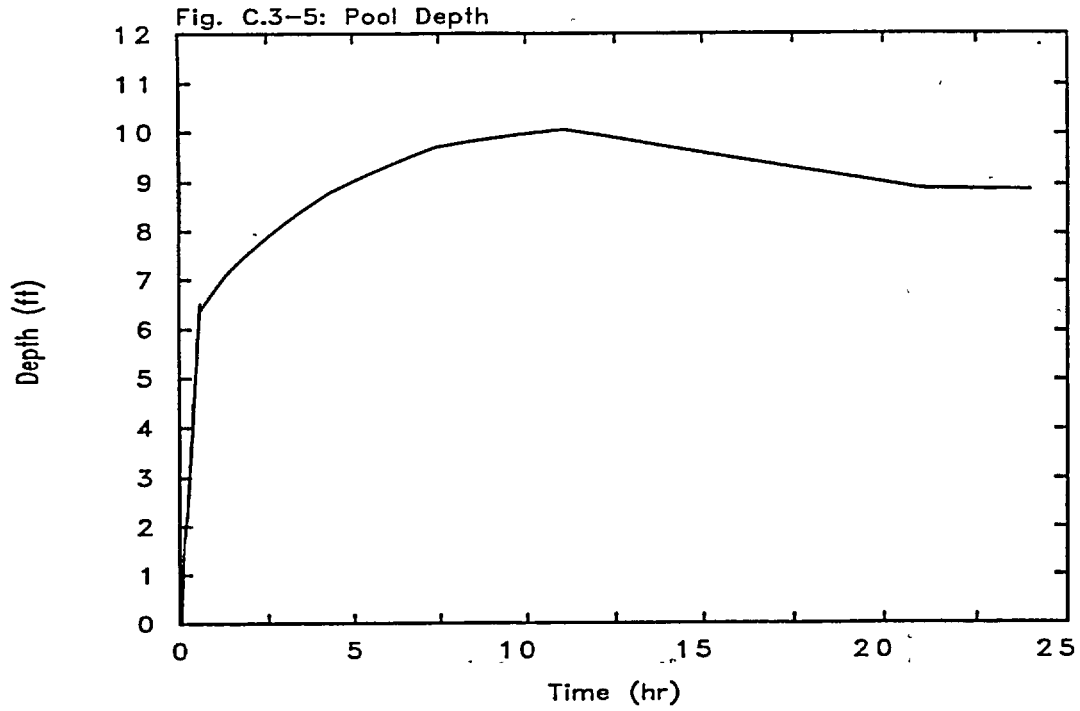
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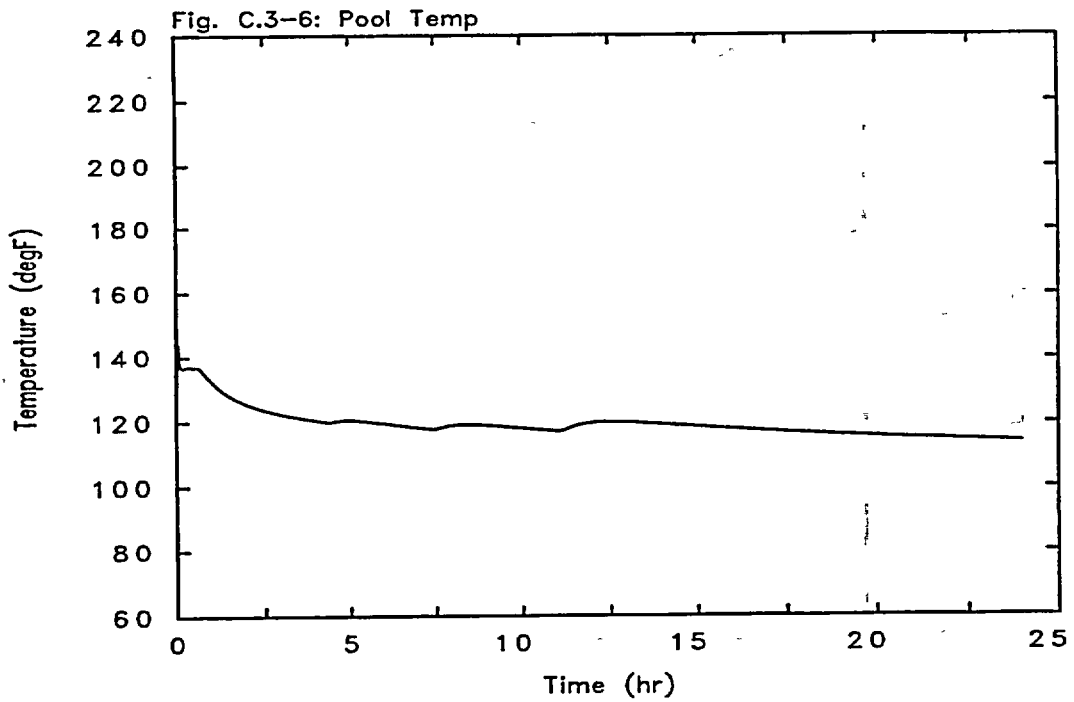
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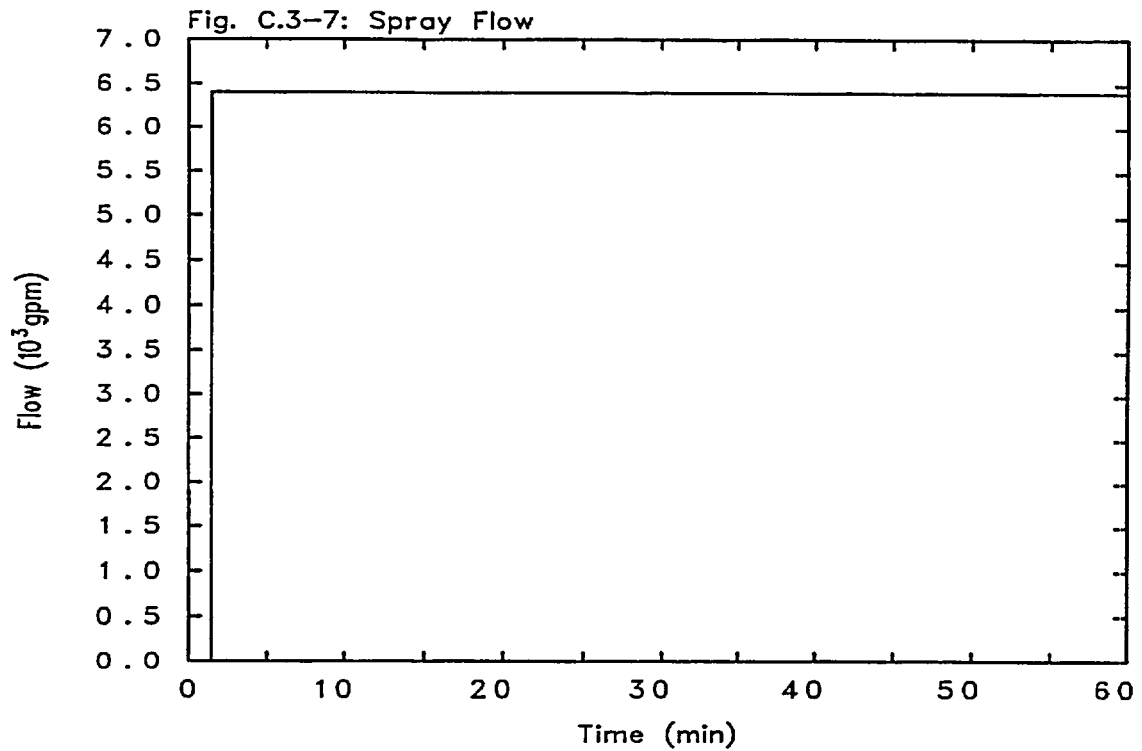
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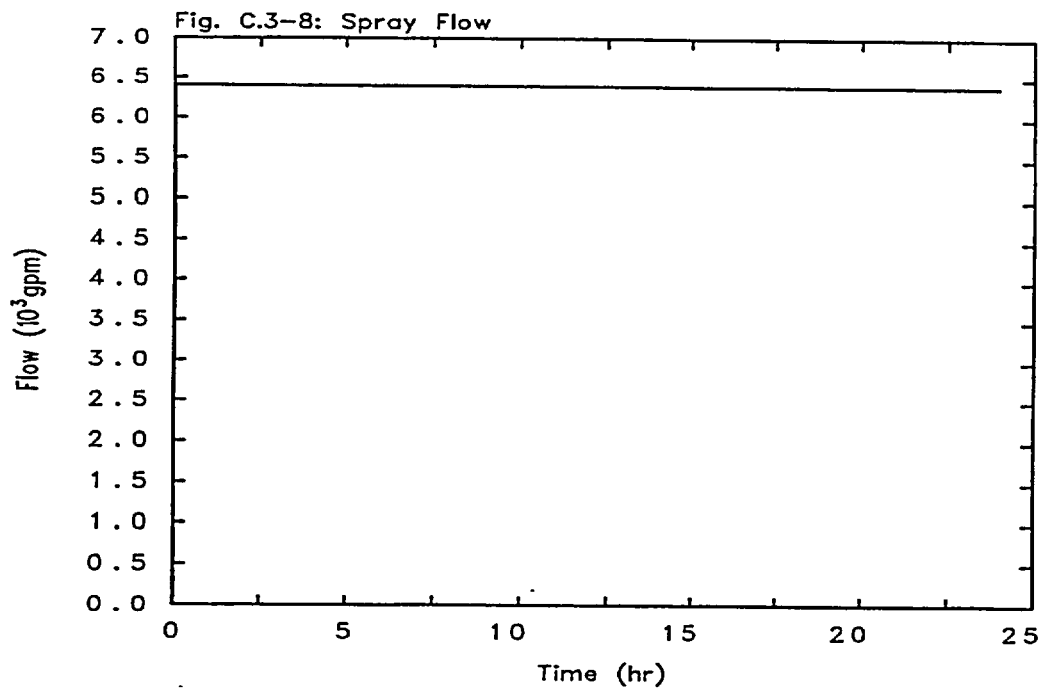
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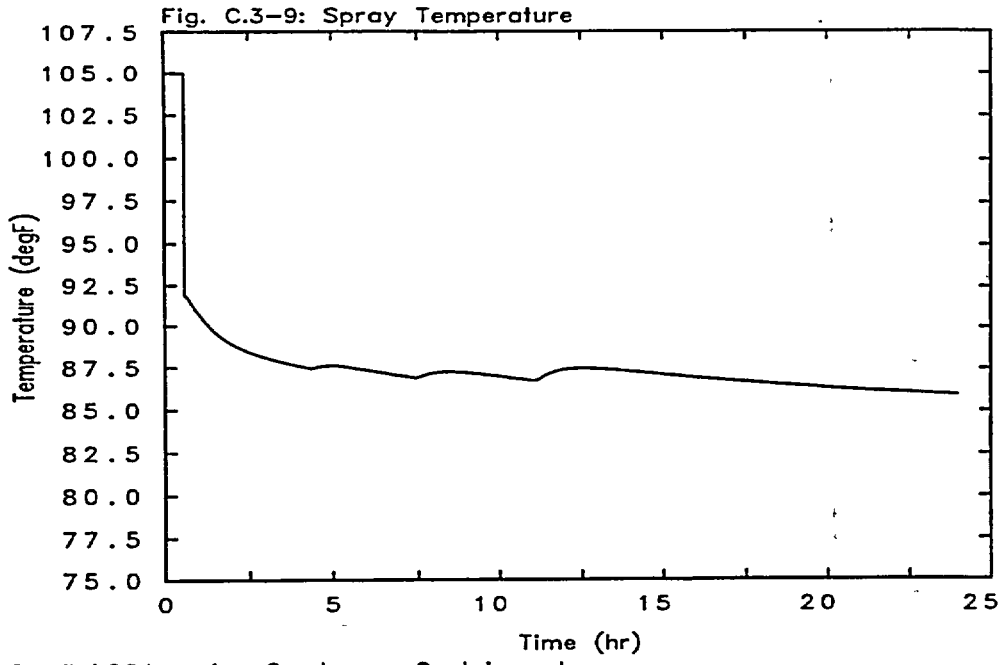
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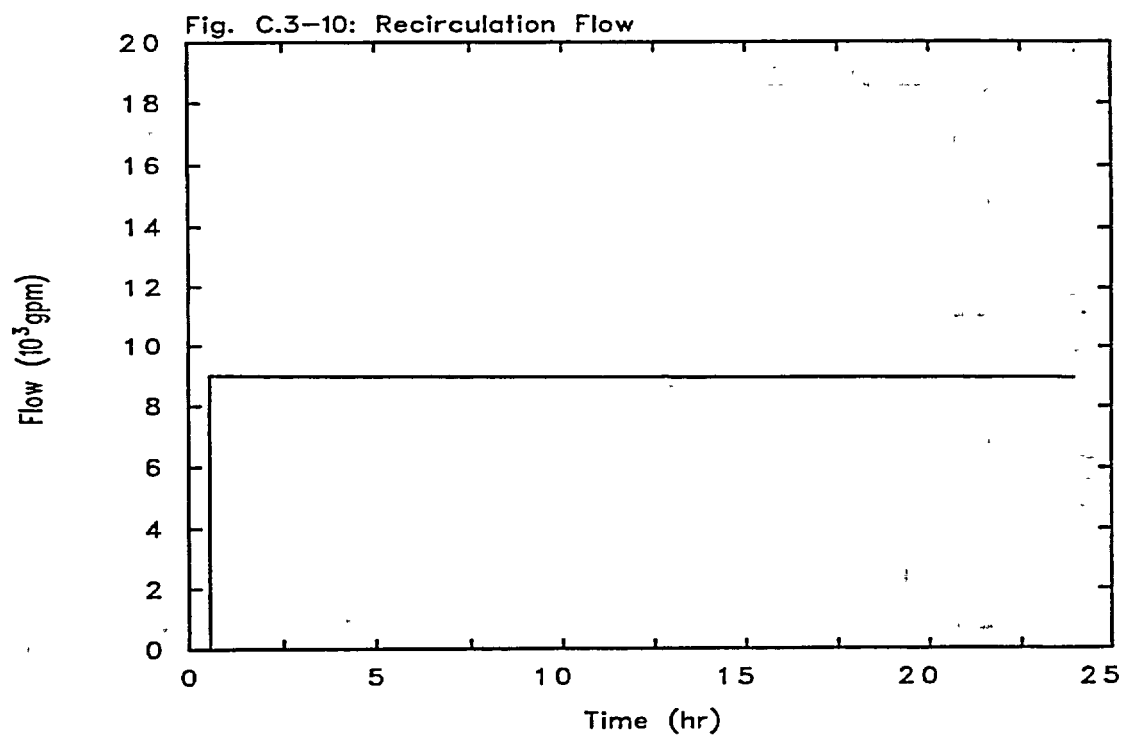
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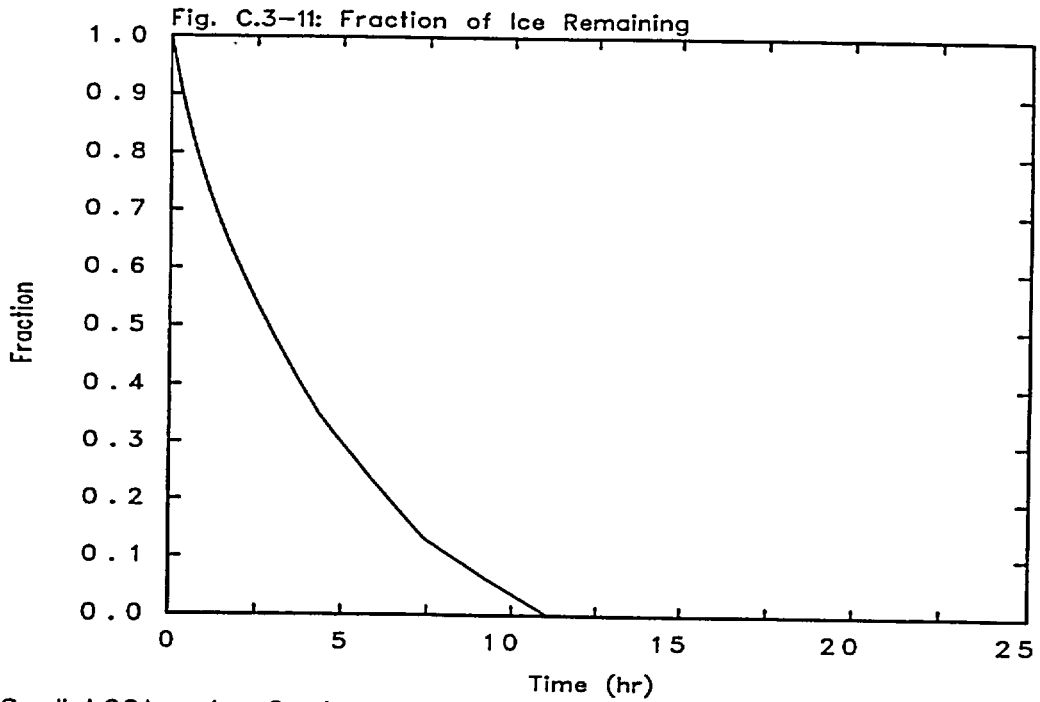
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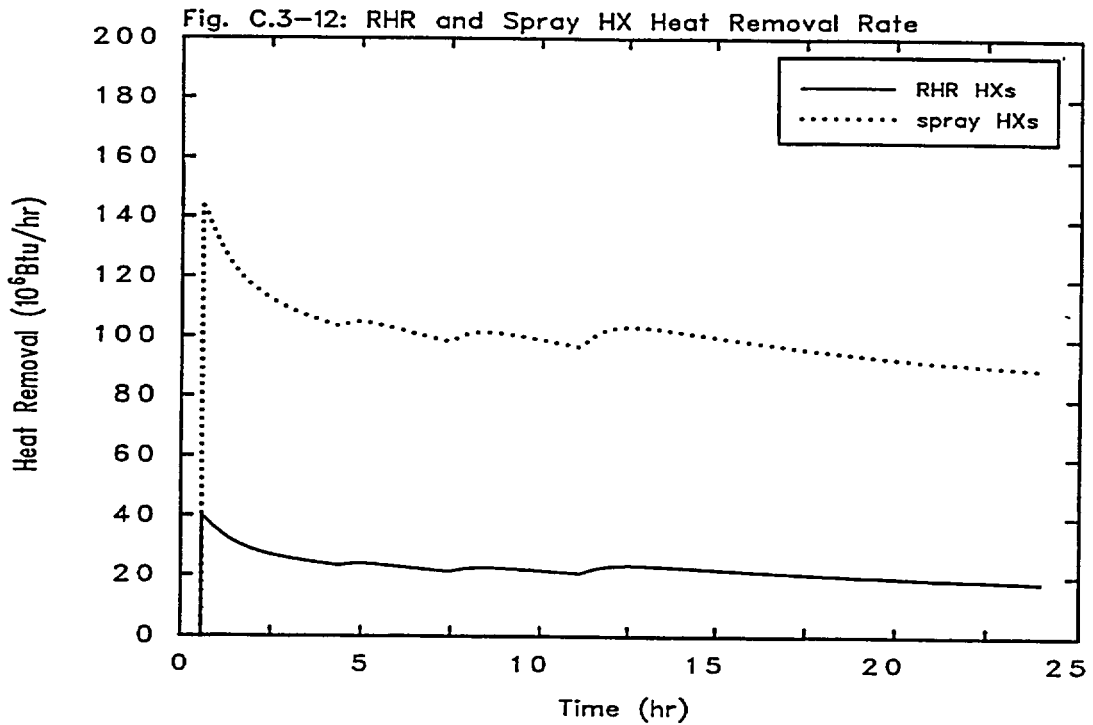
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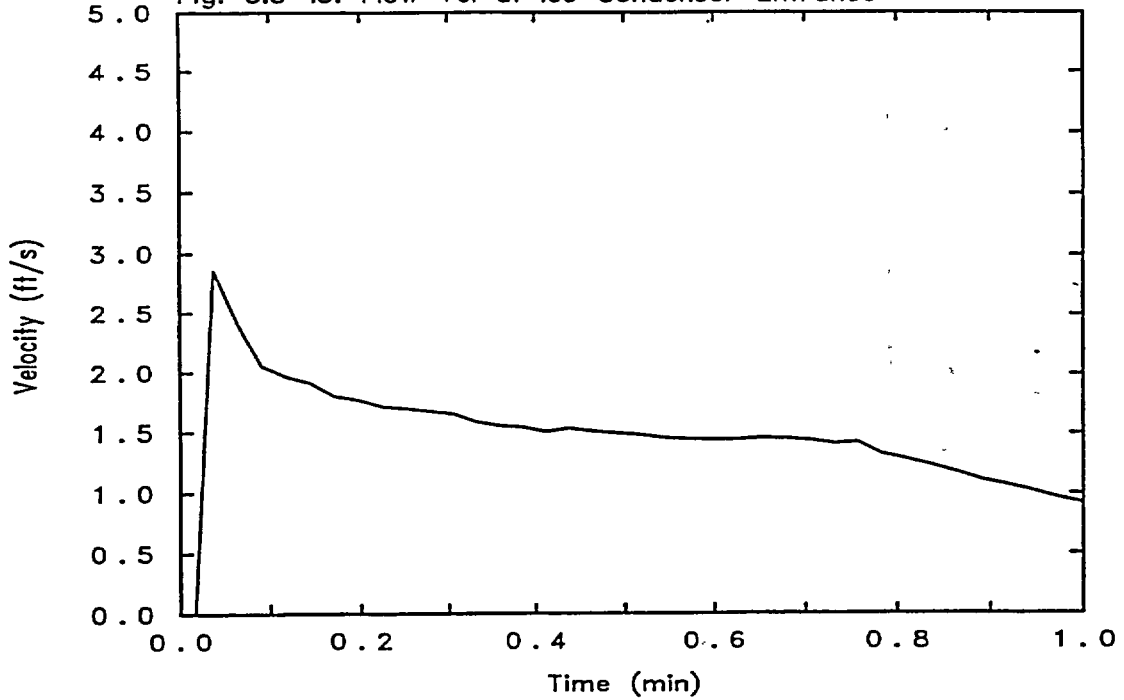


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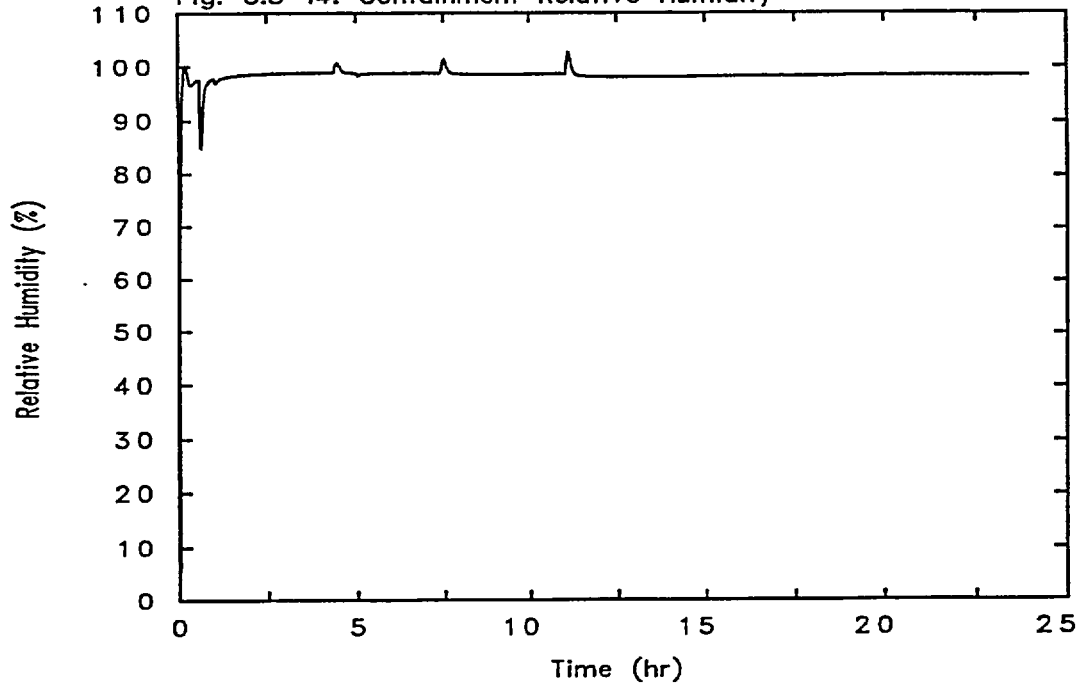
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Fig. C.3-13: Flow Vel at Ice Condenser Entrance



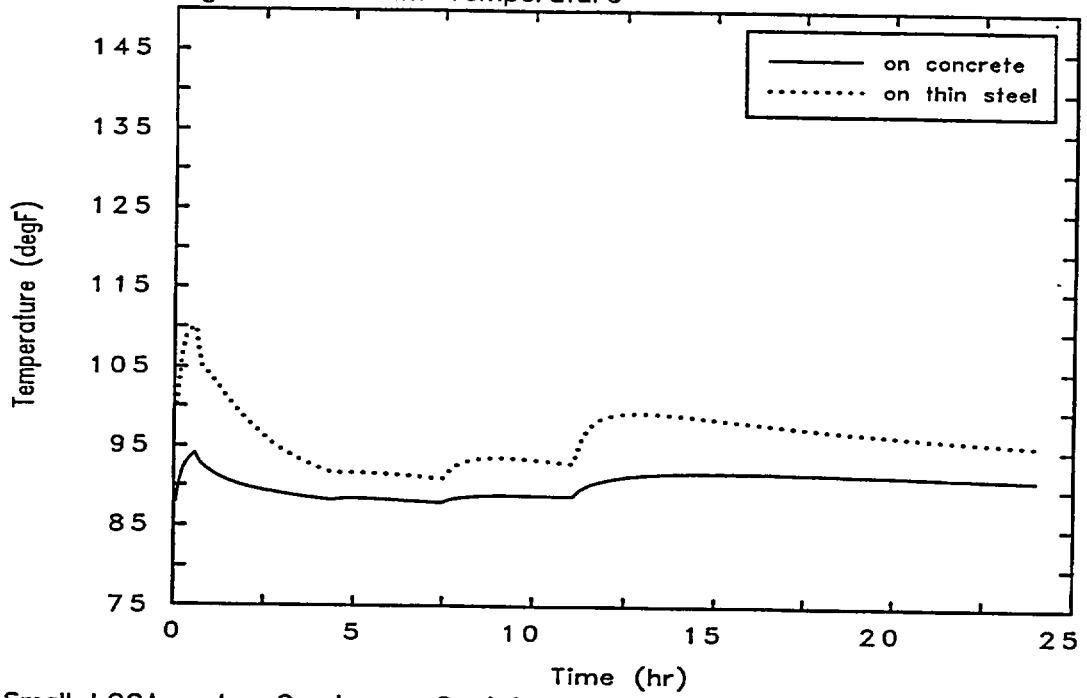
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Fig. C.3-14: Containment Relative Humidity

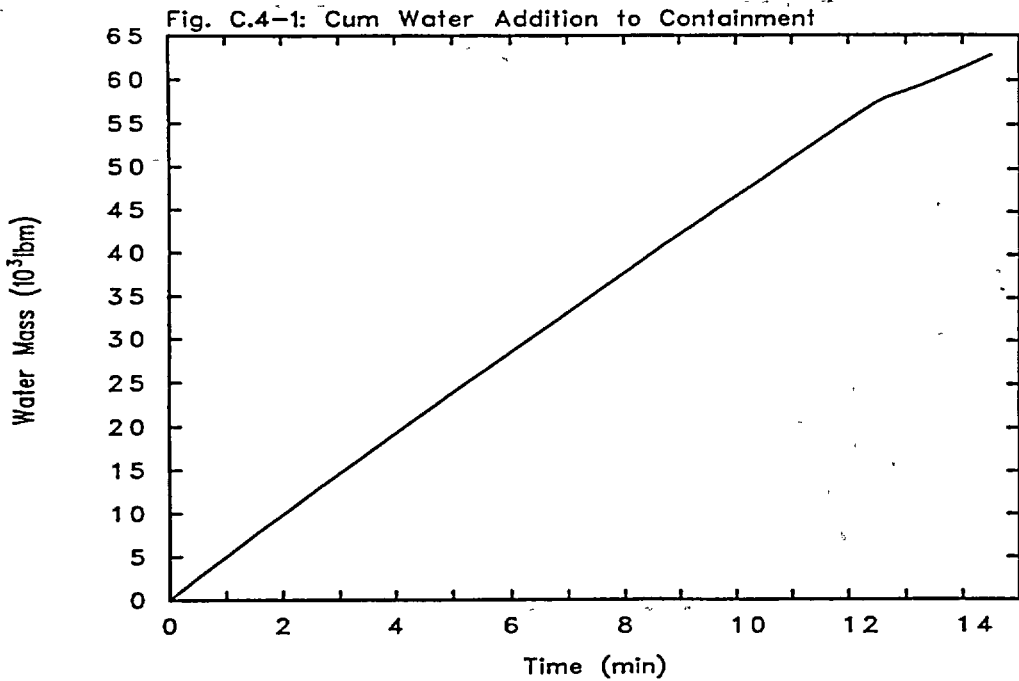


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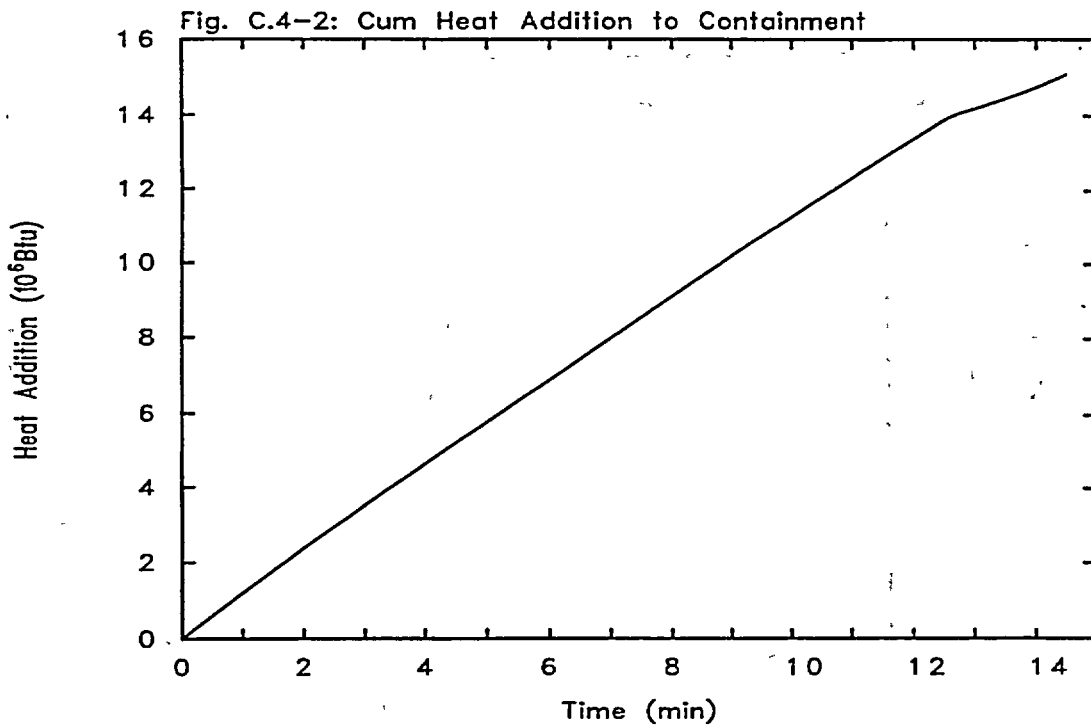
Fig. C.3-15: Paint Temperature



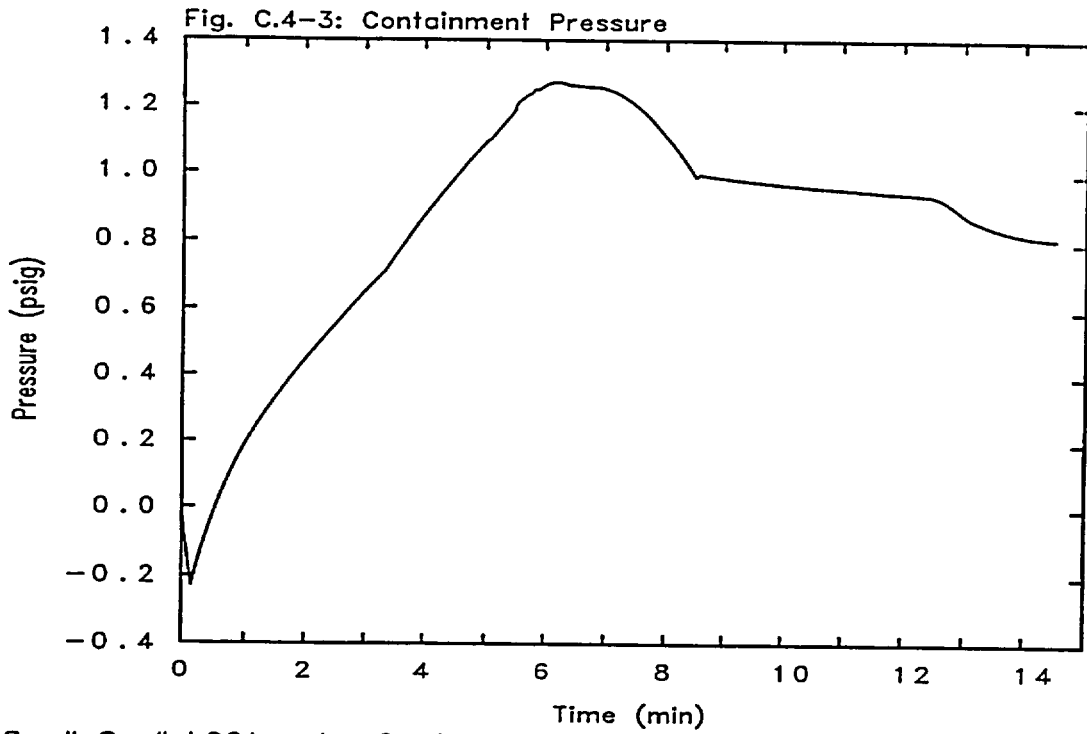
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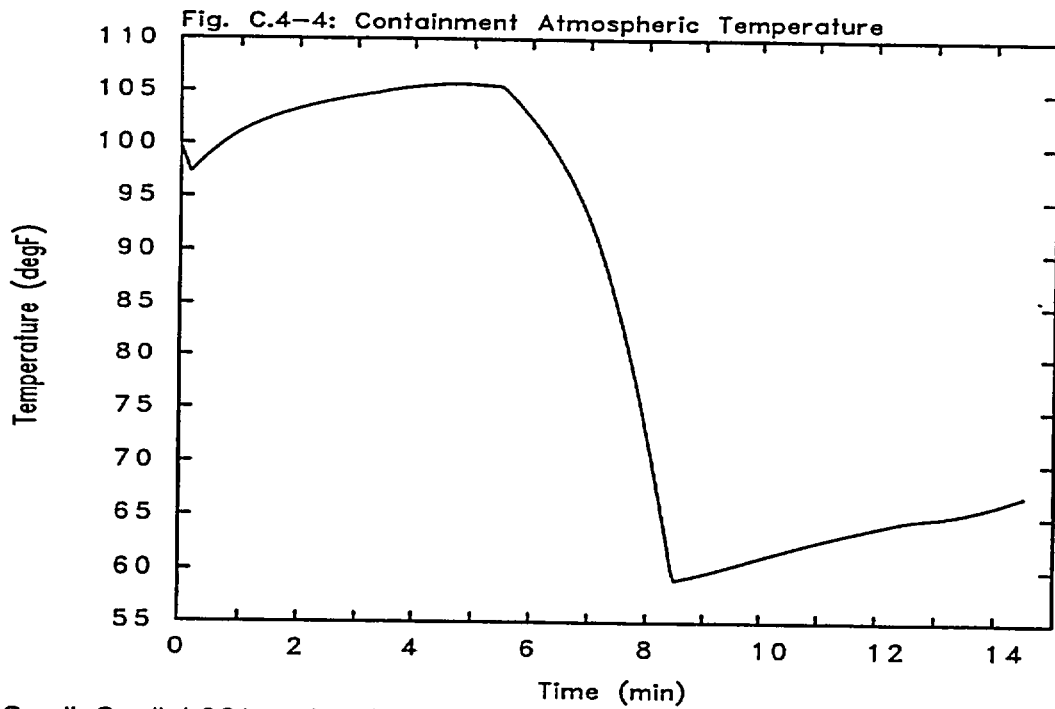
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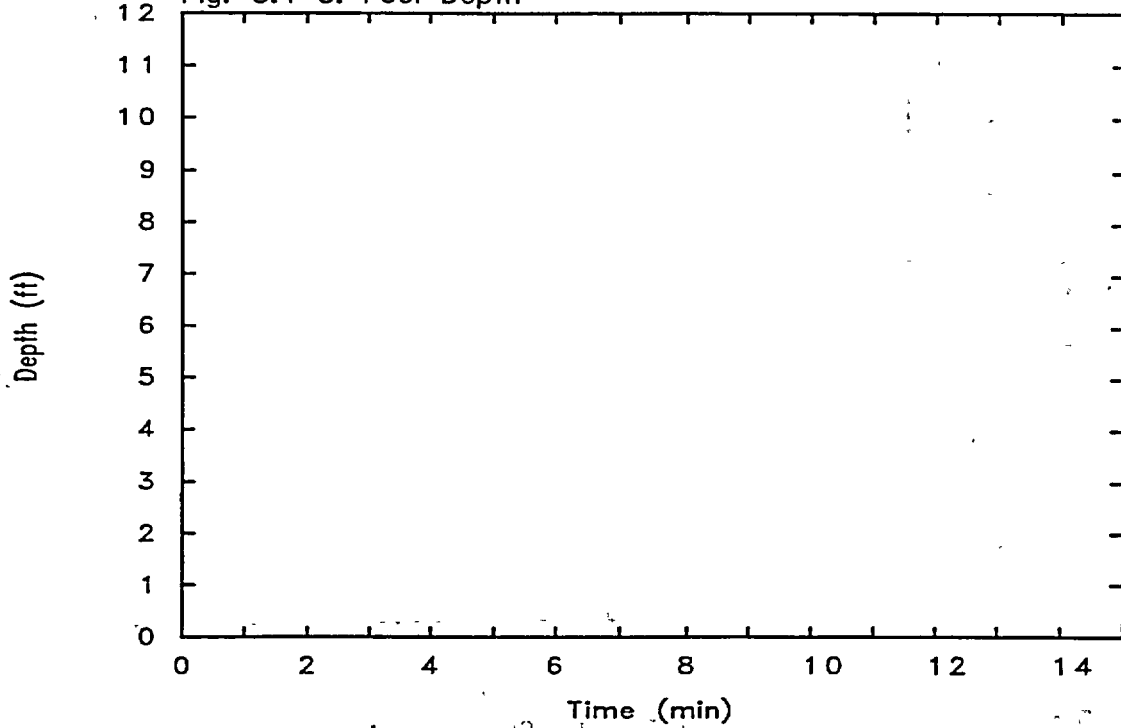


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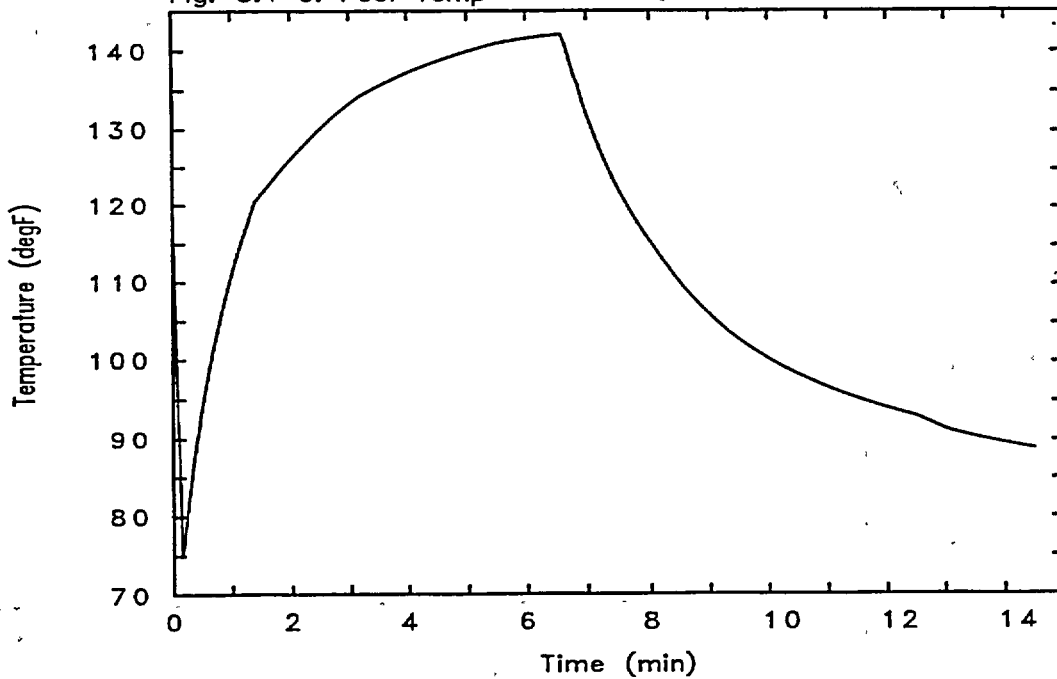
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Fig. C.4-5: Pool Depth

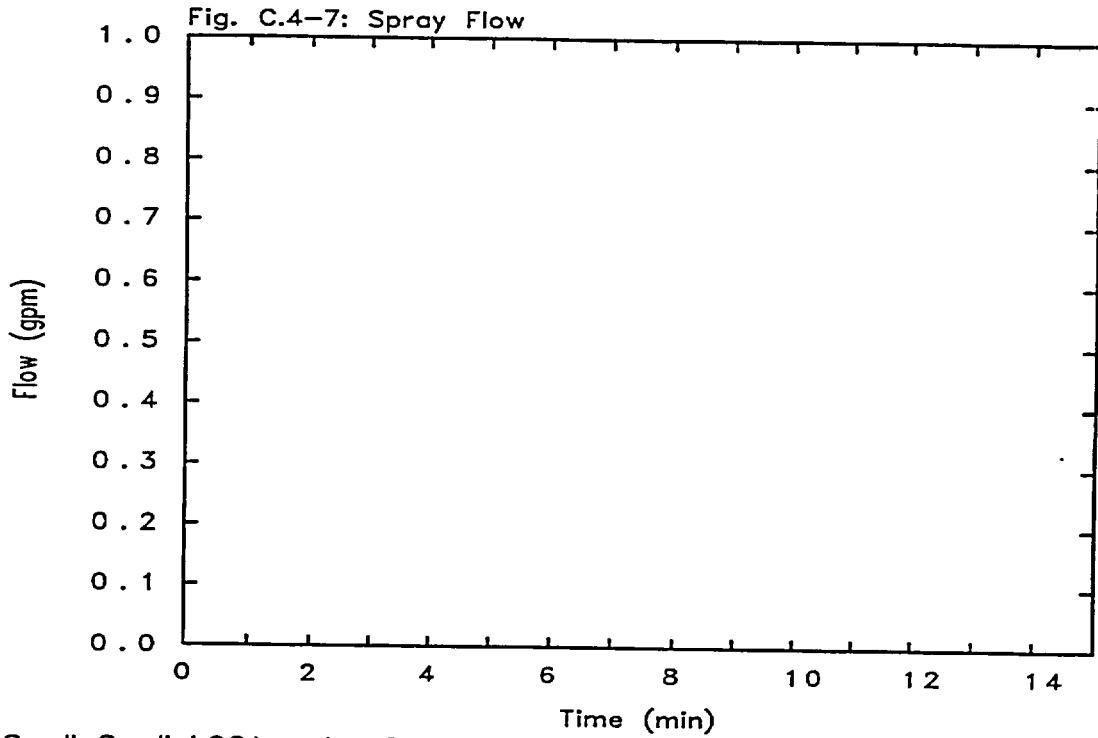


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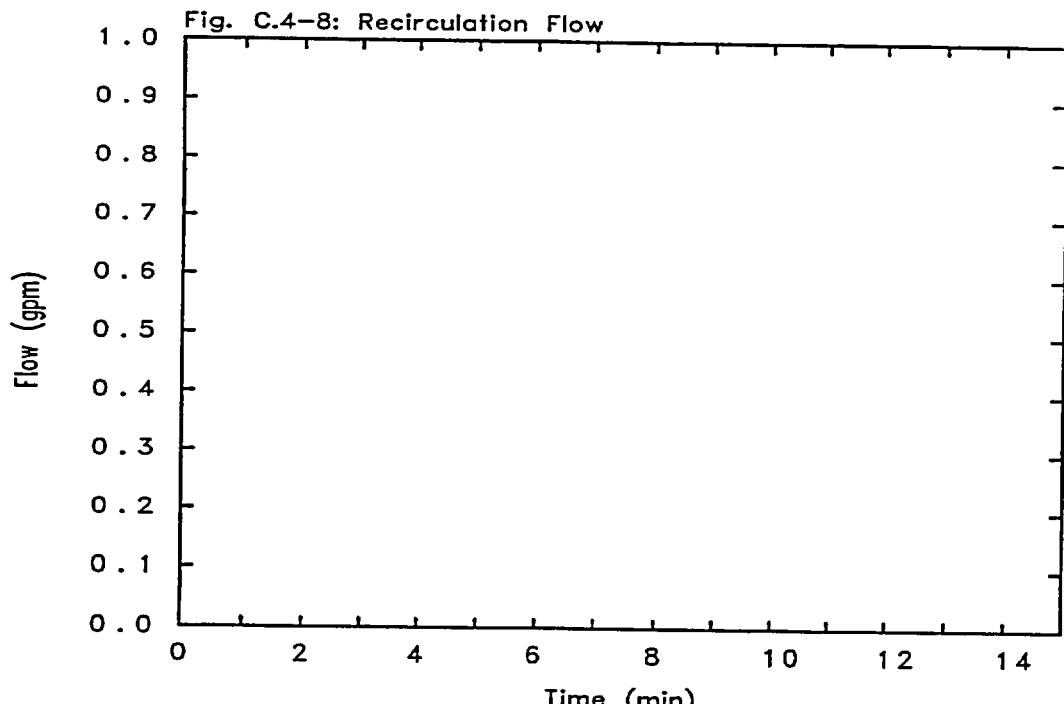
Fig. C.4-6: Pool Temp



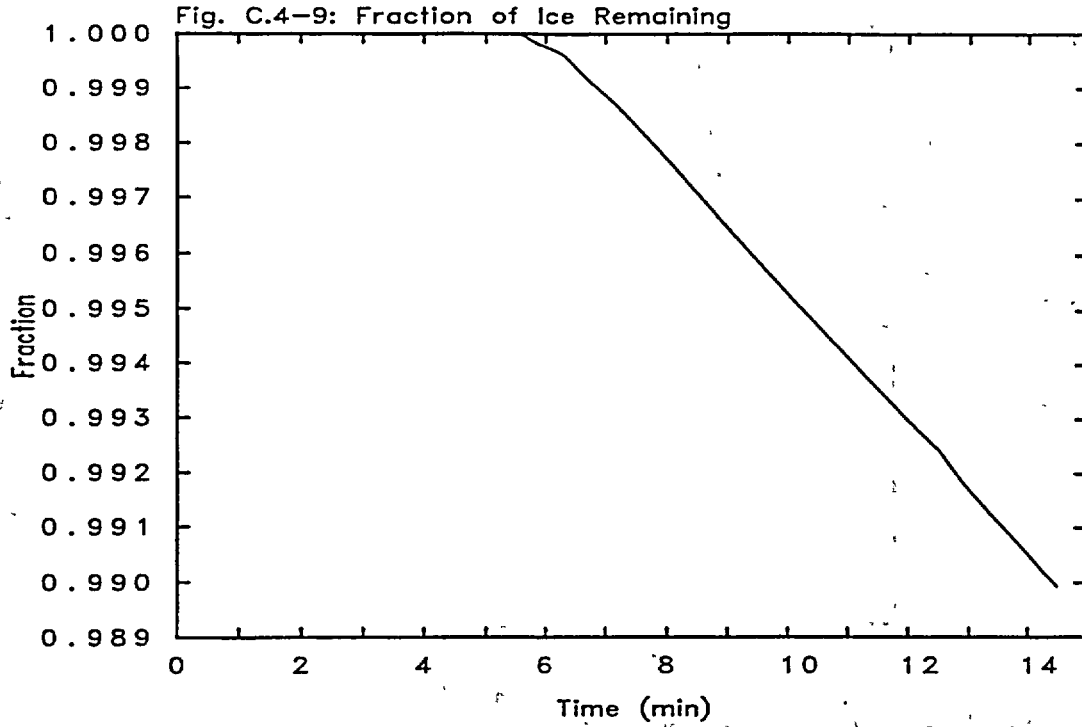
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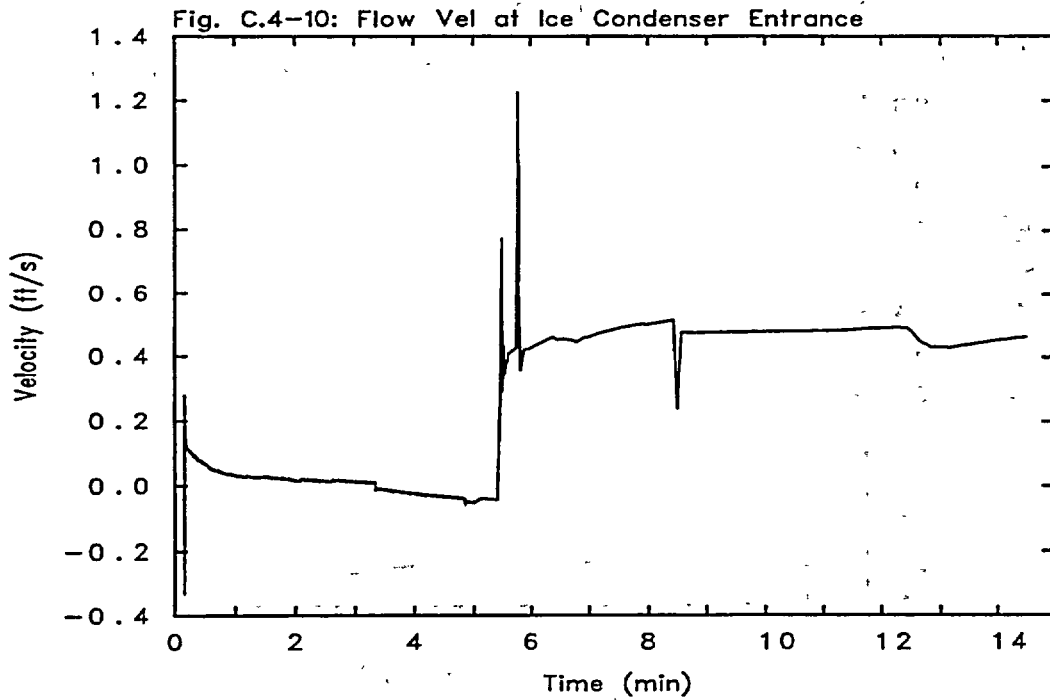
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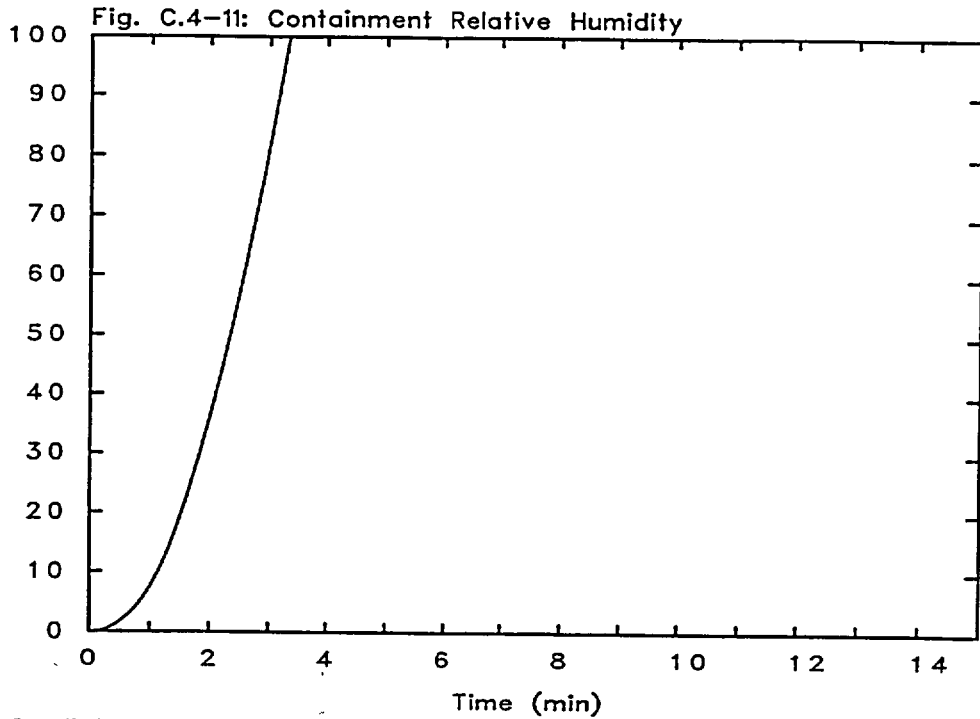
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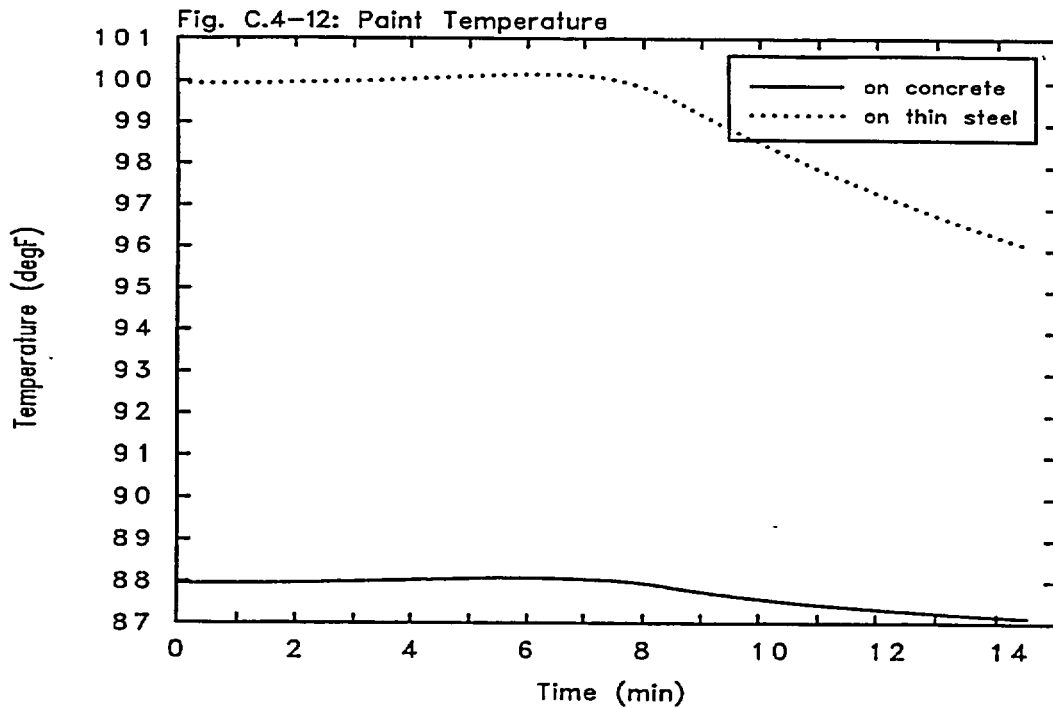
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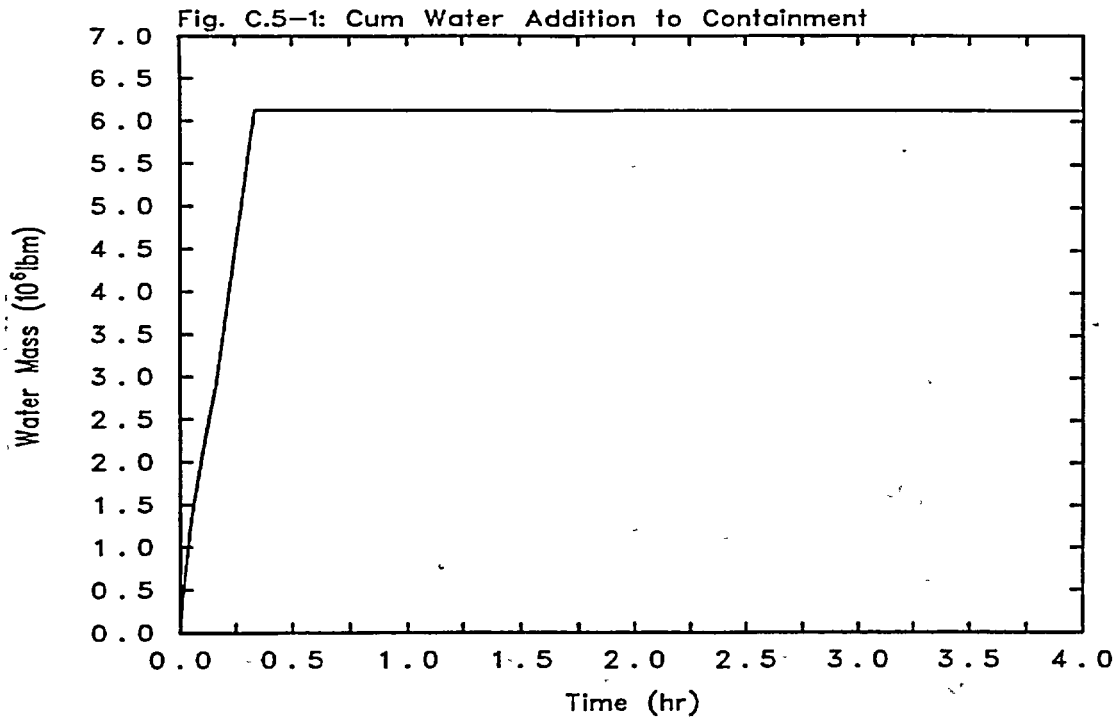
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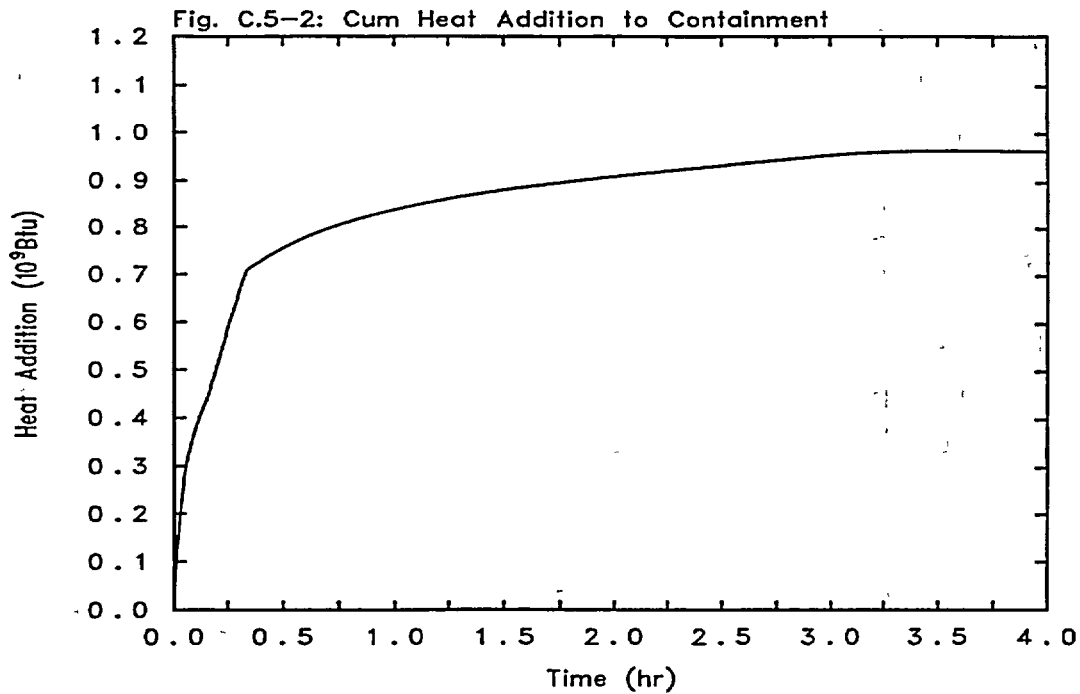
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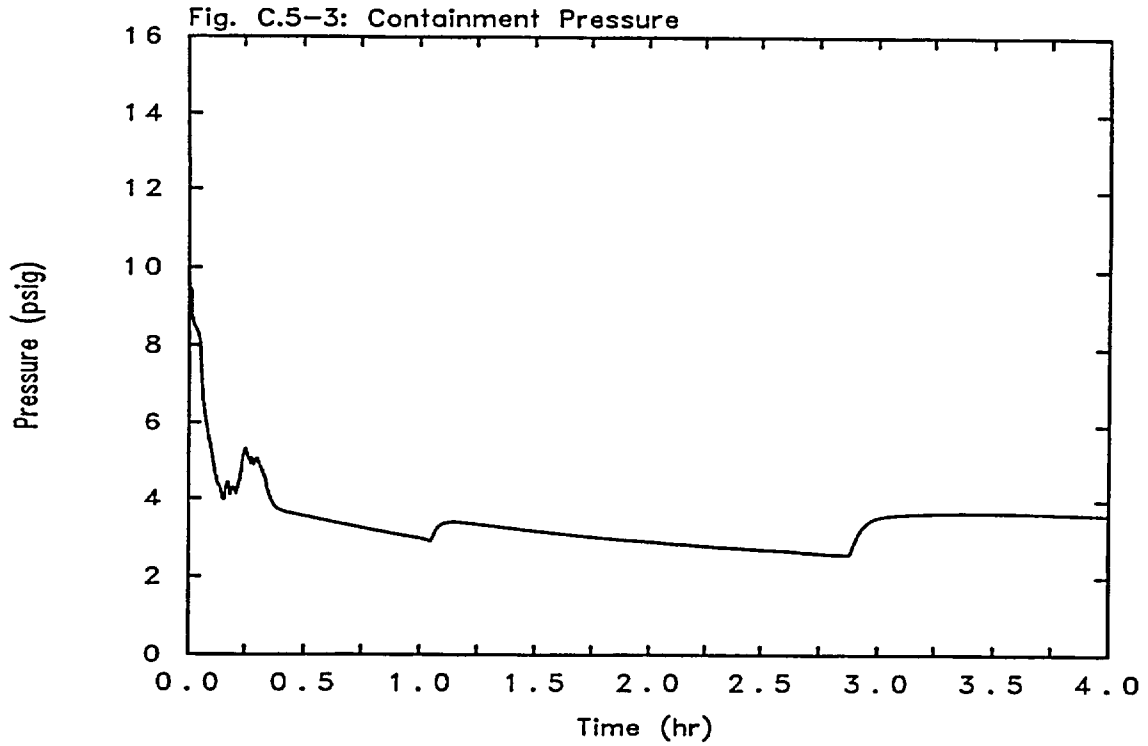
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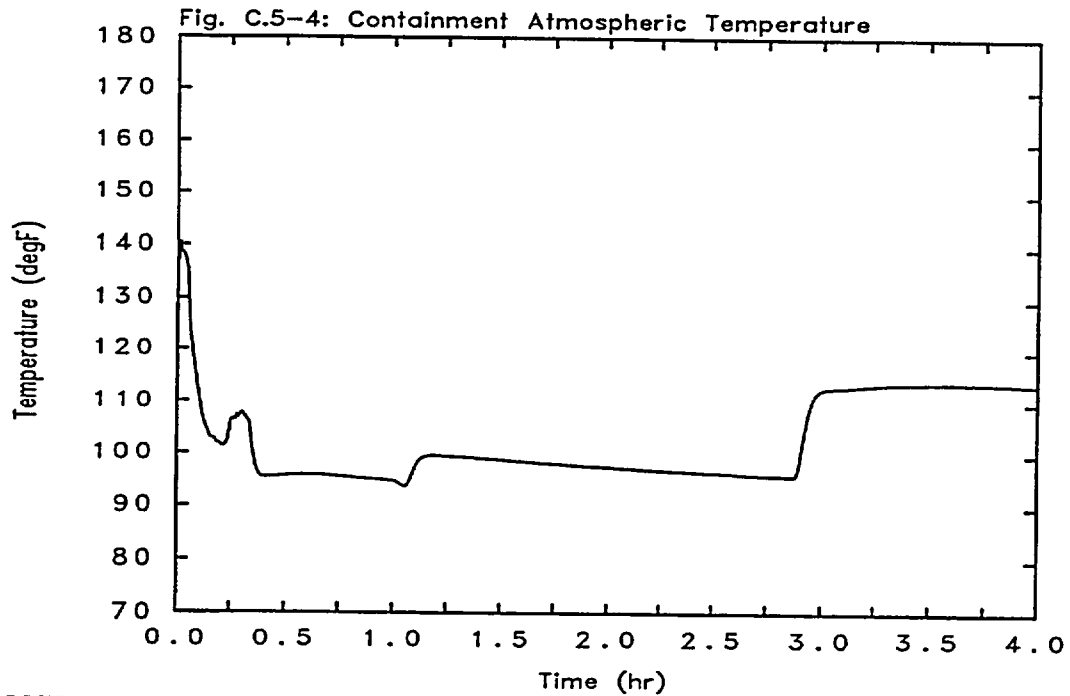
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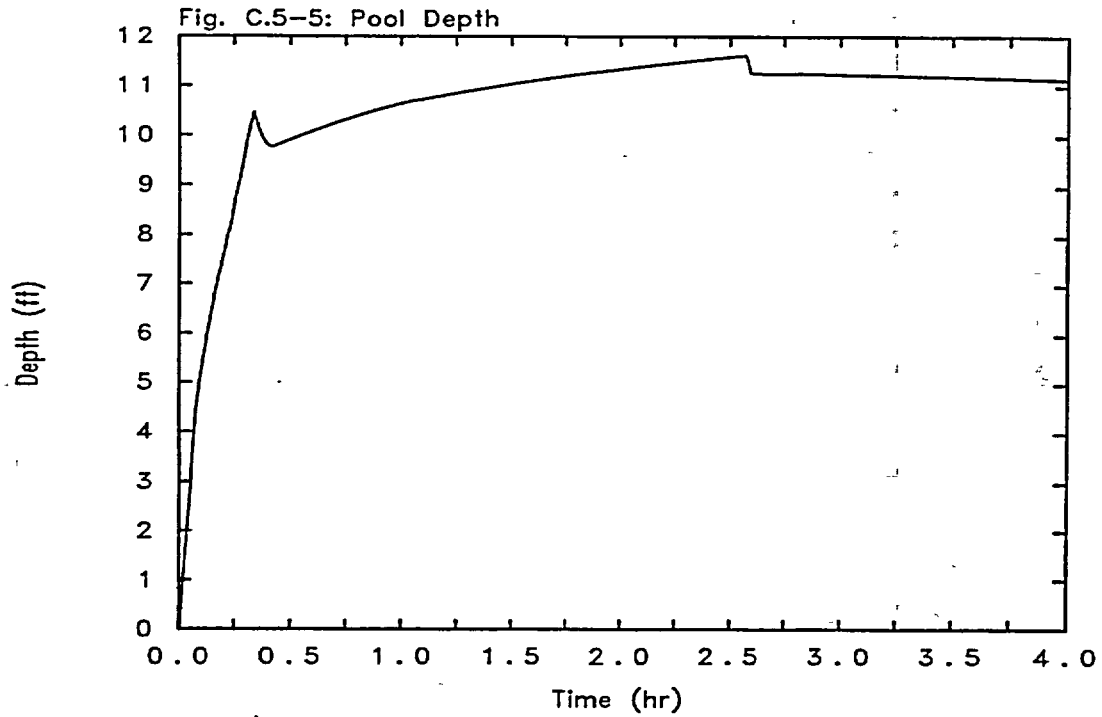
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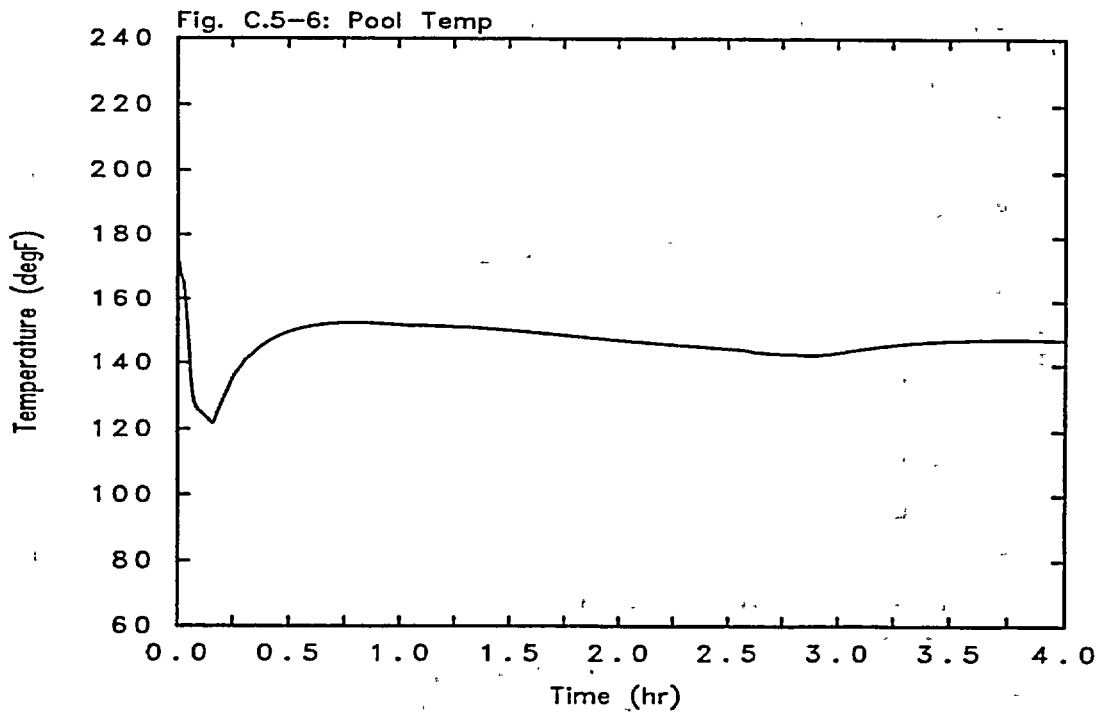
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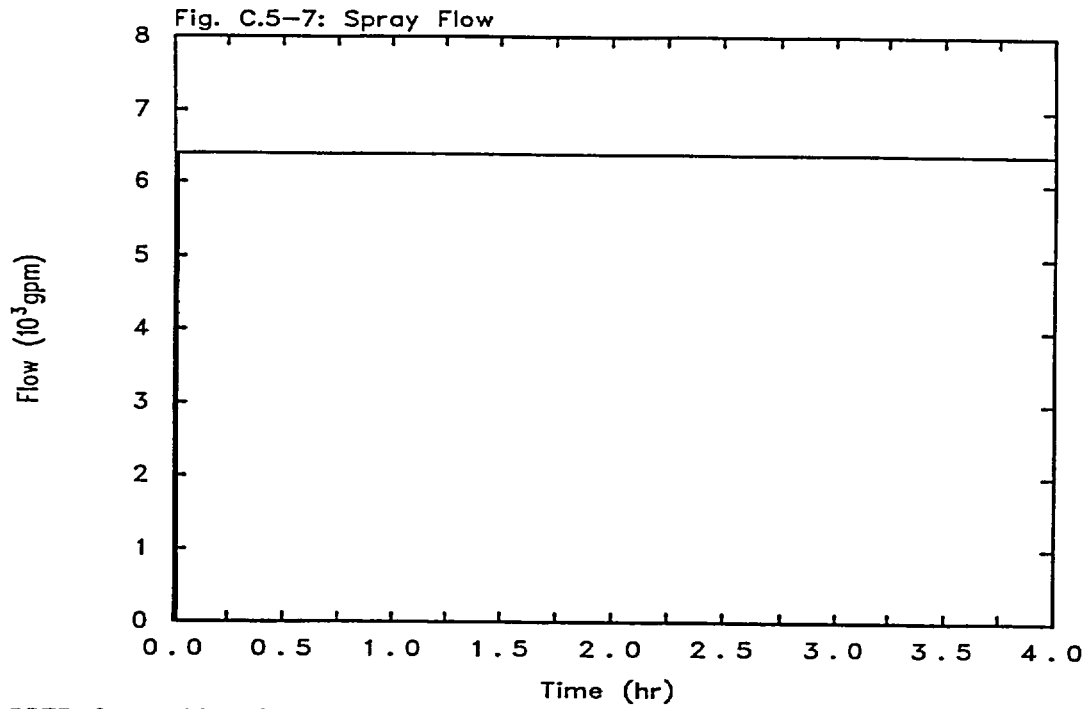
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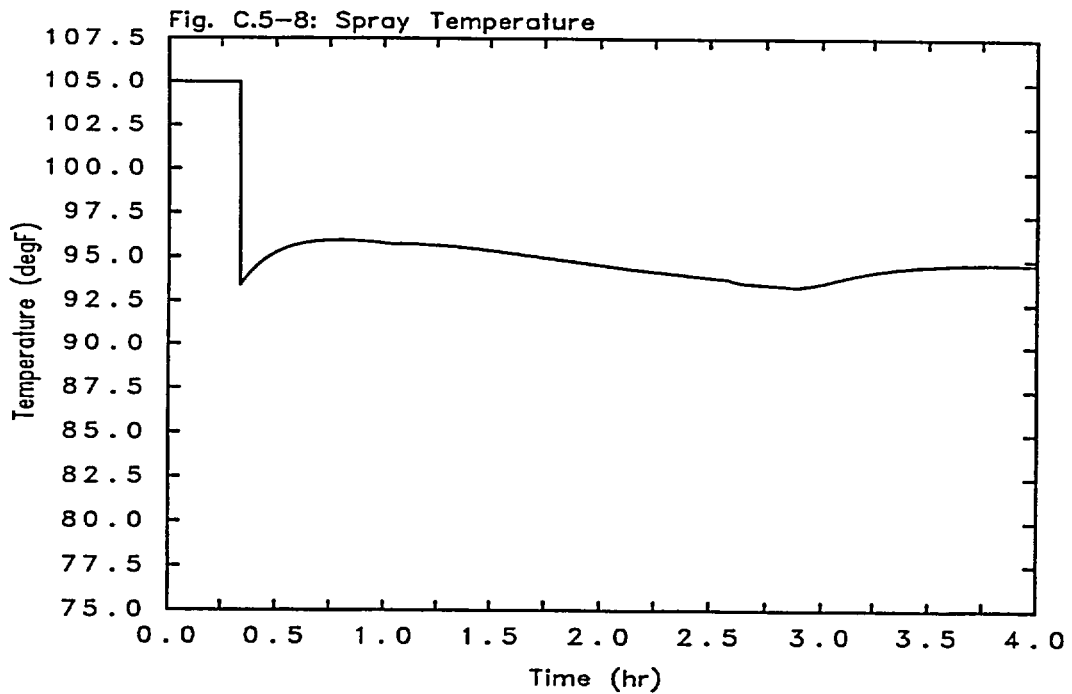
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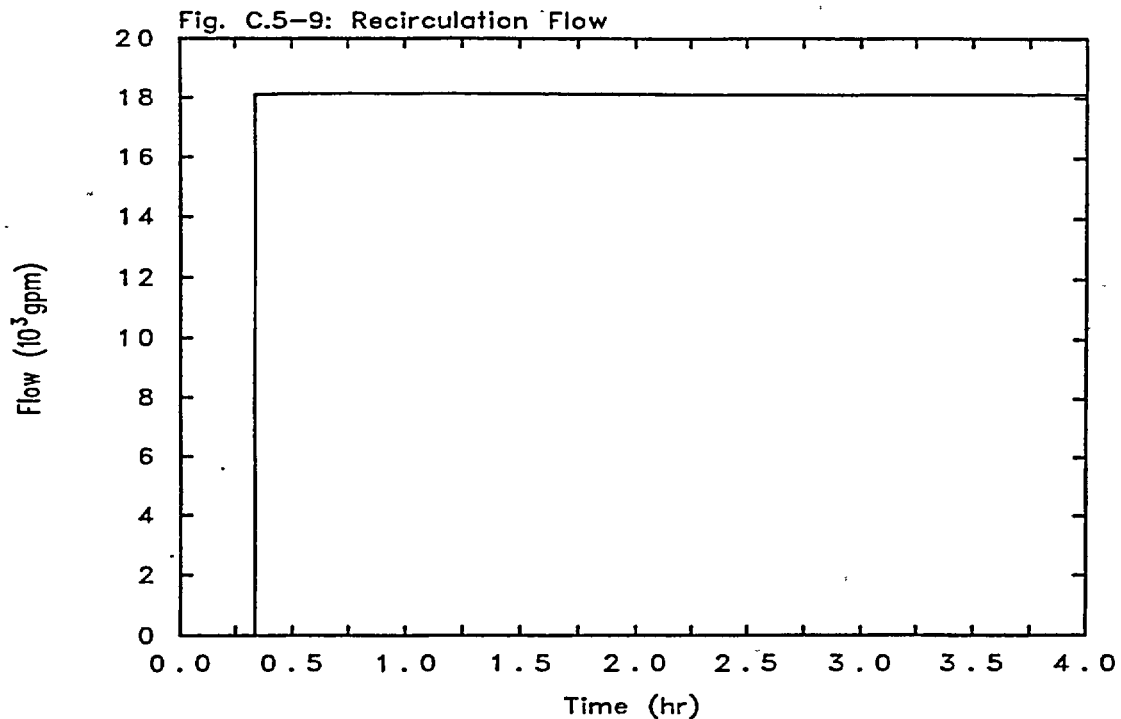
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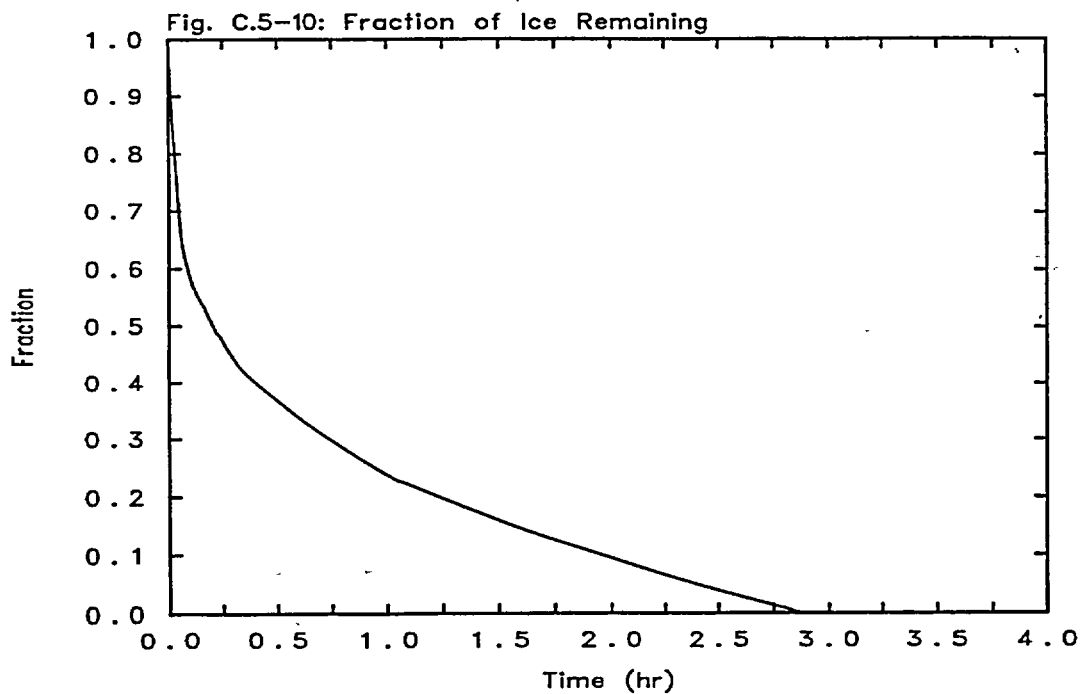
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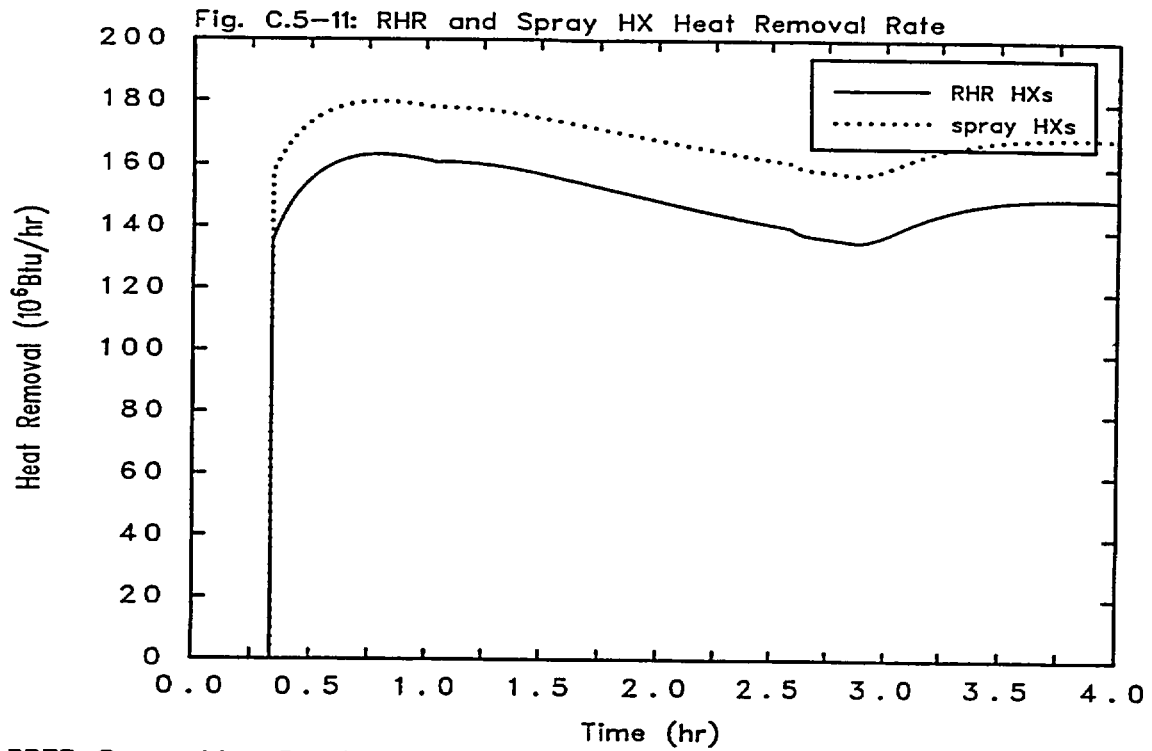
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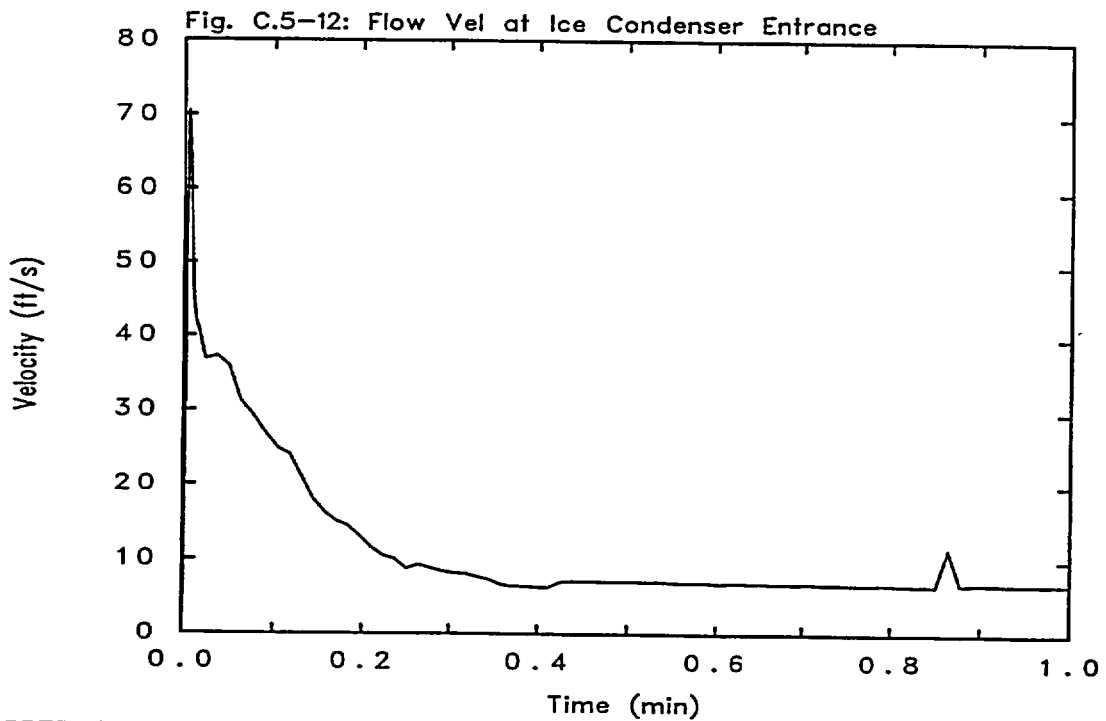
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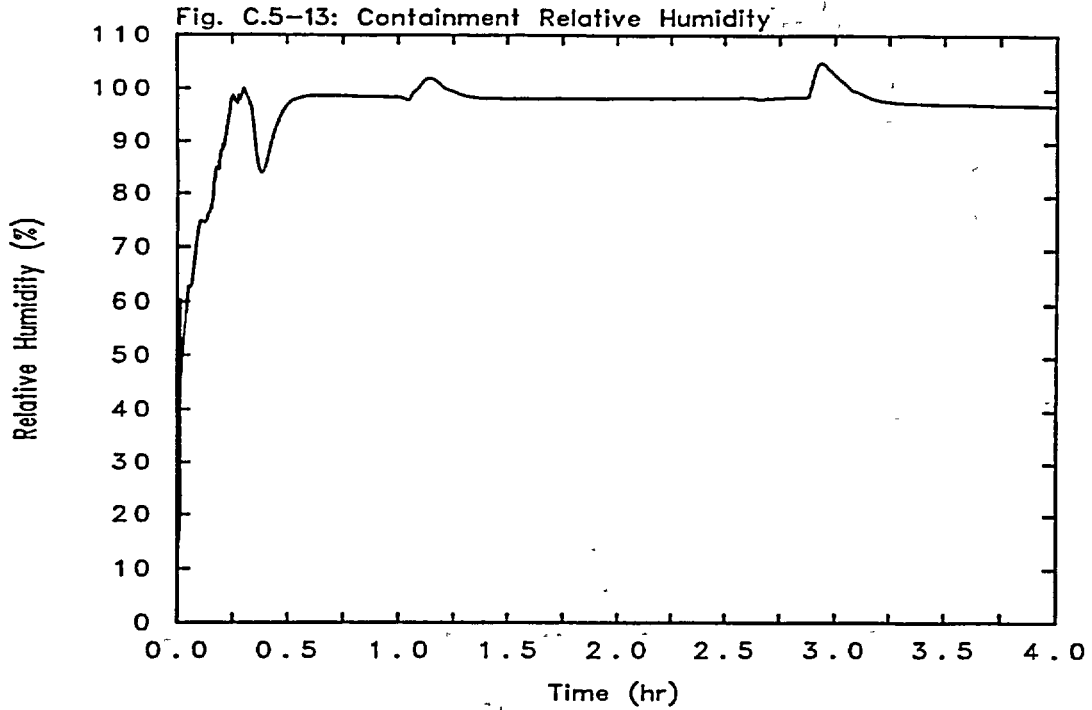
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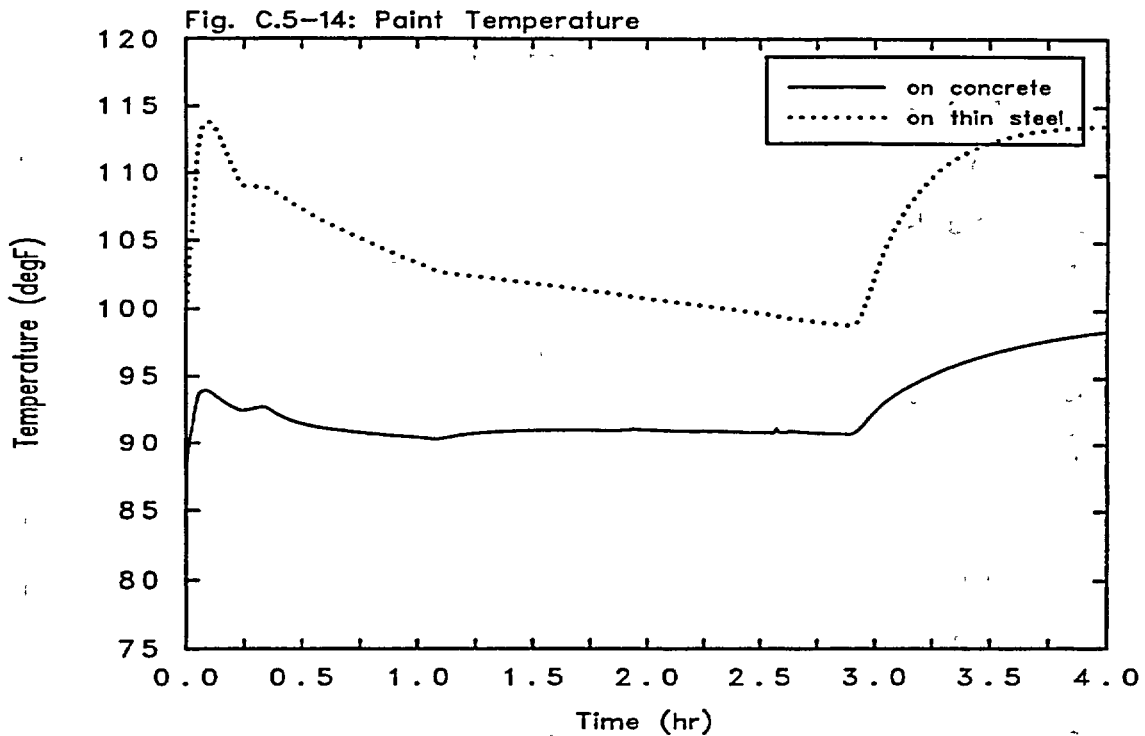
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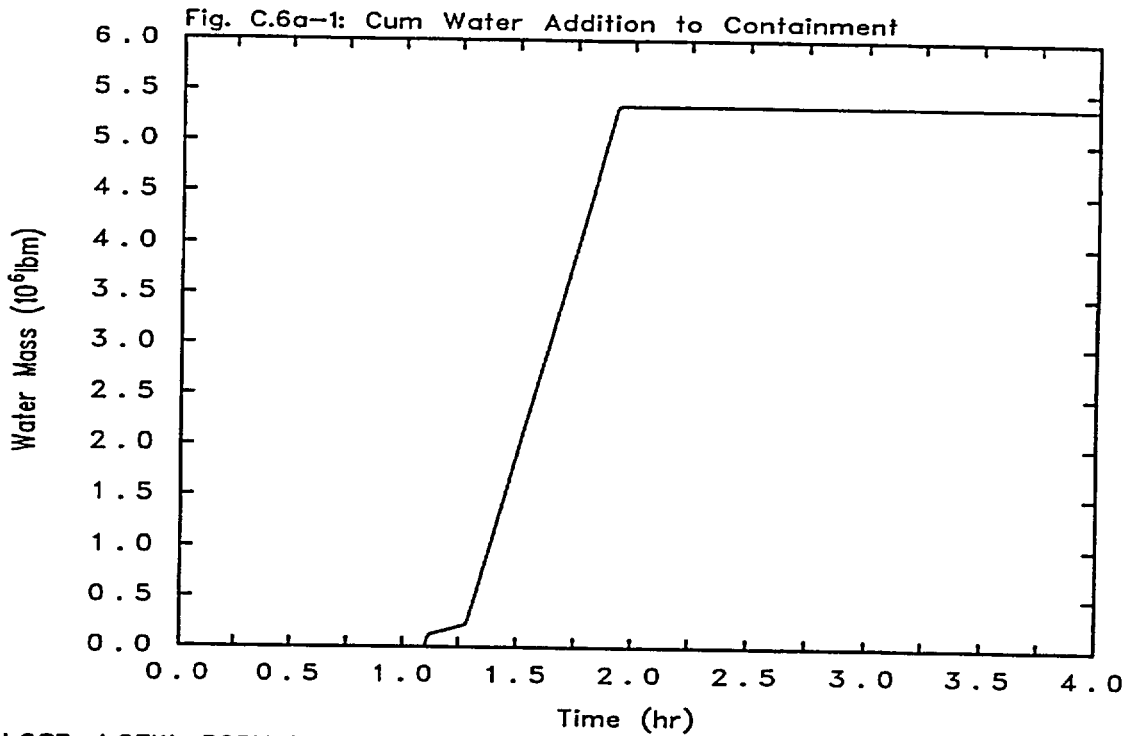
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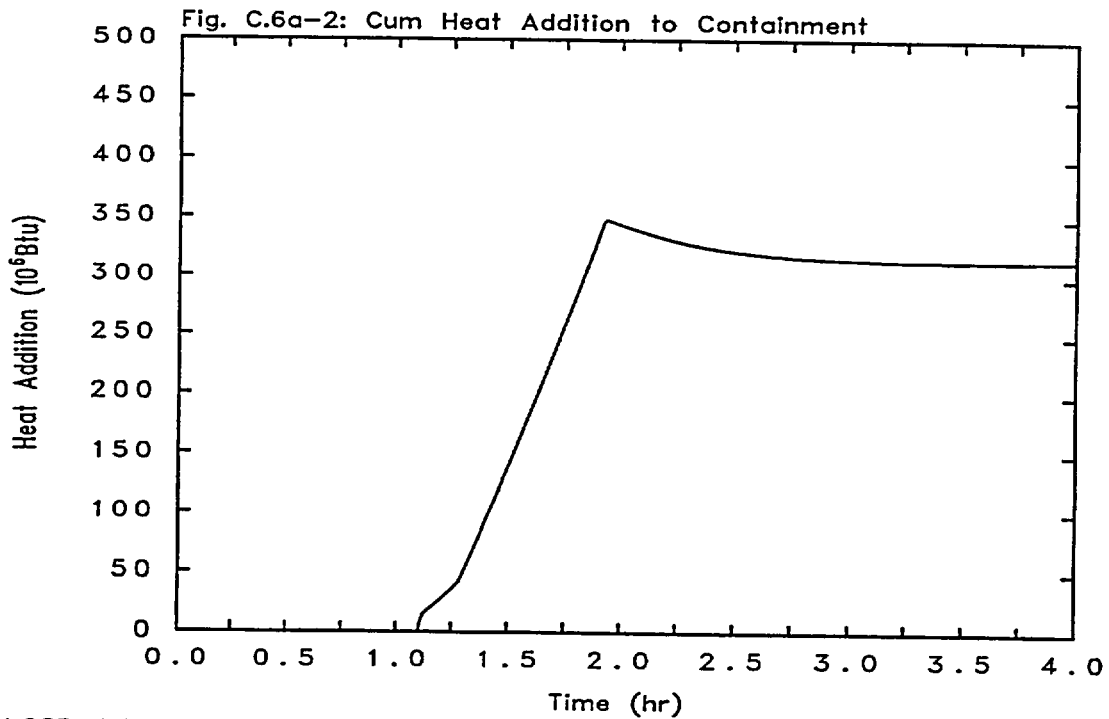
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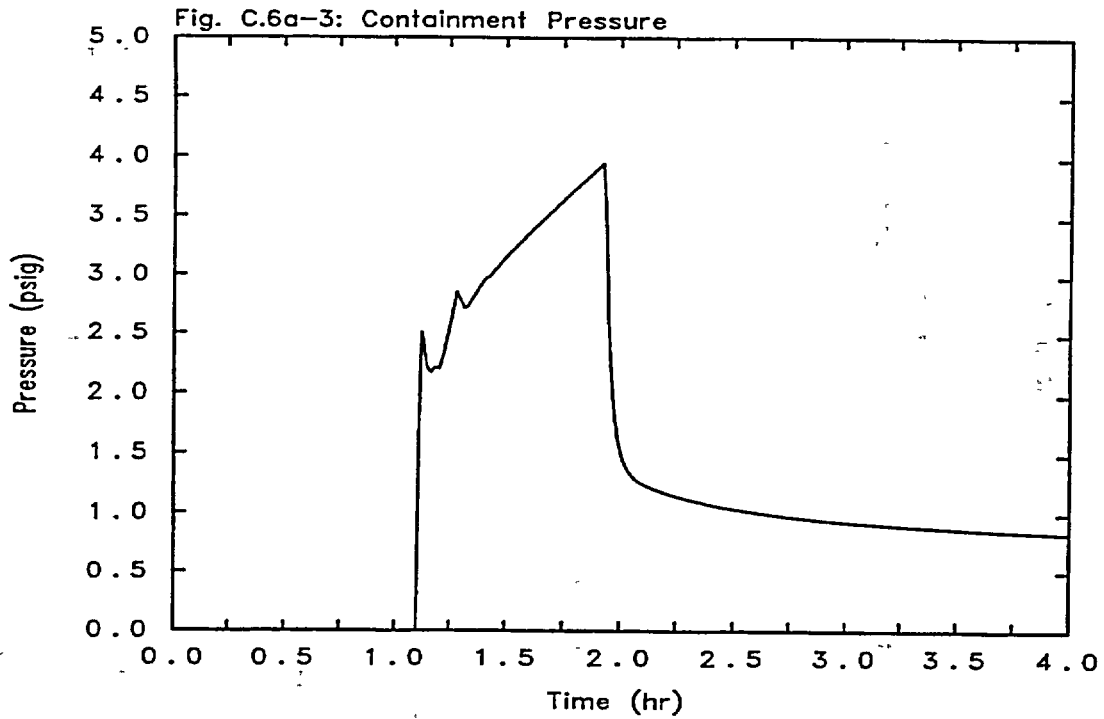
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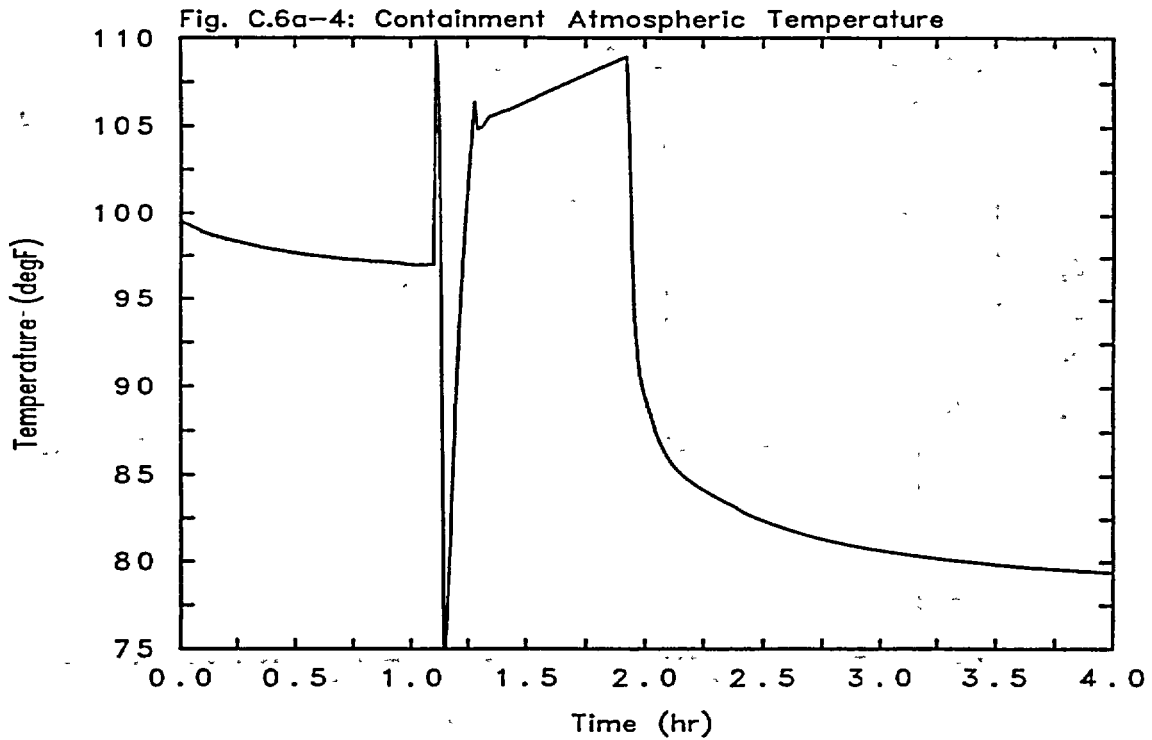
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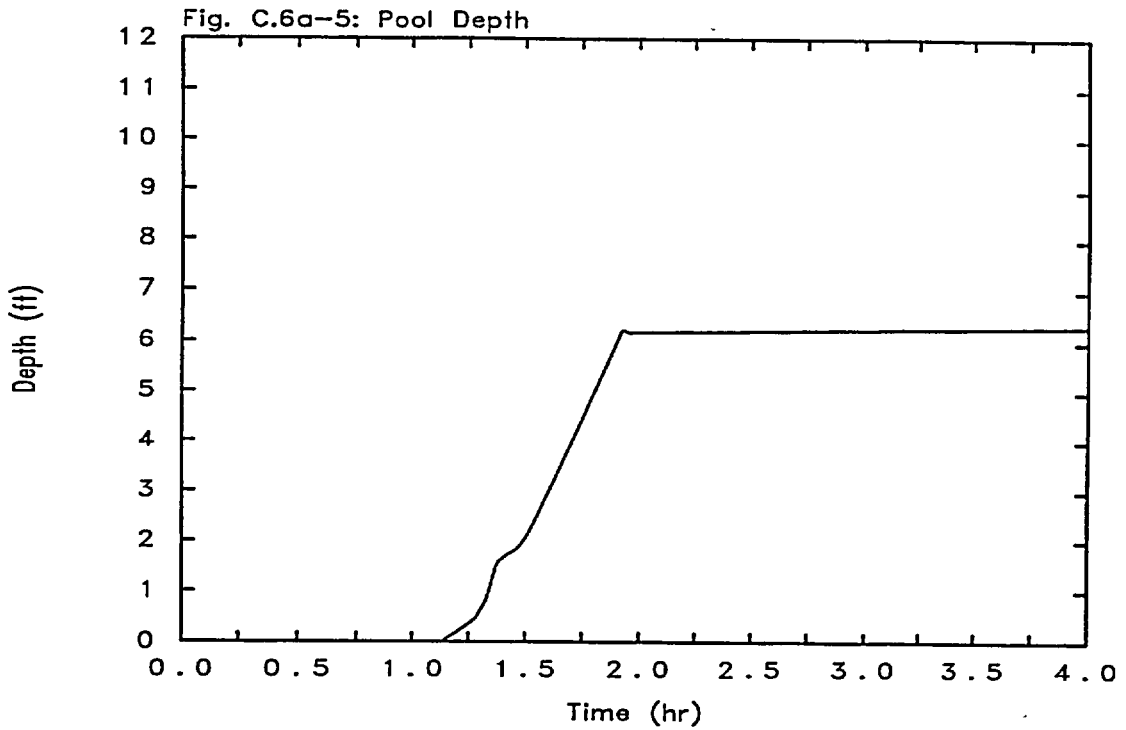
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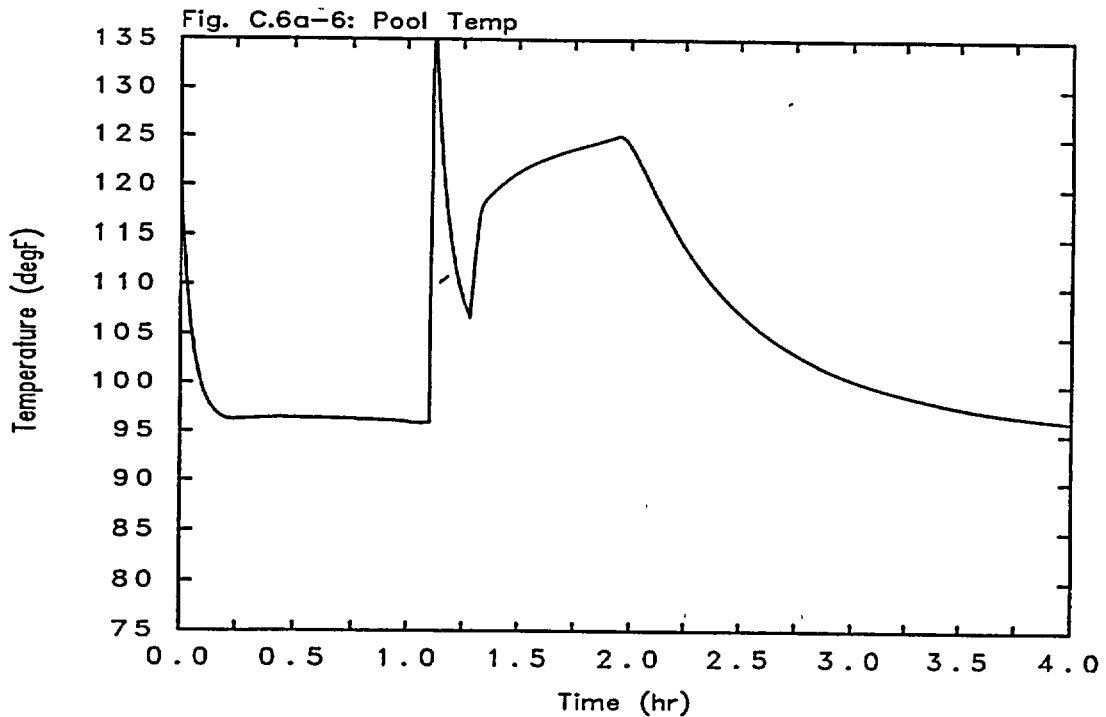
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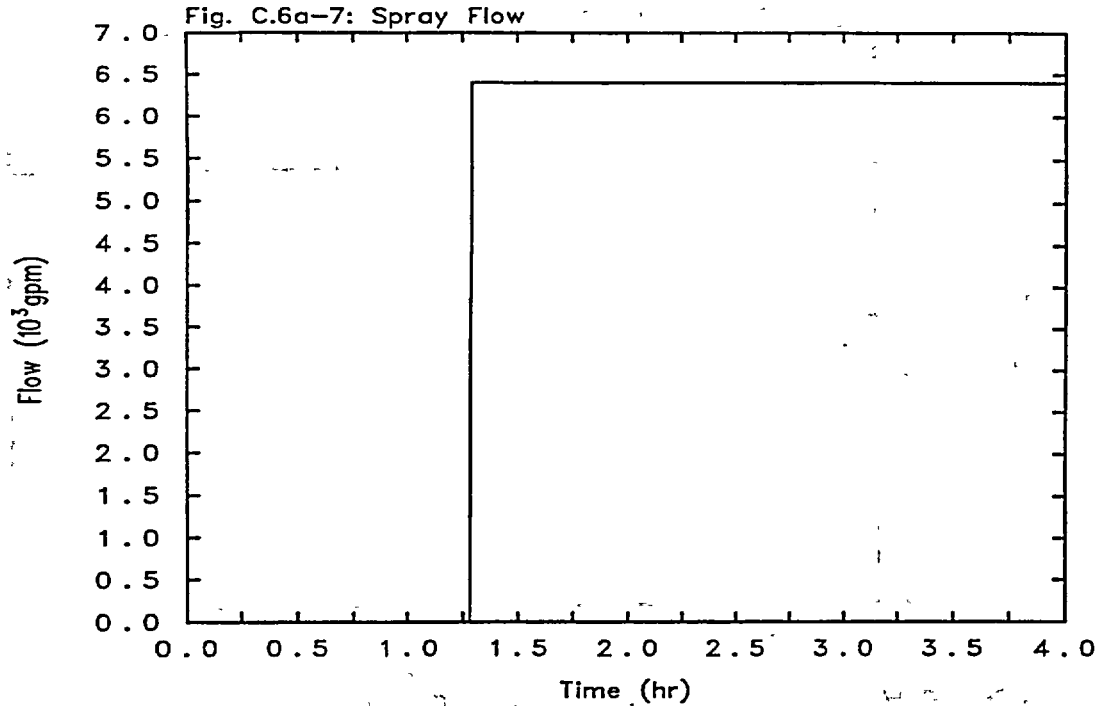
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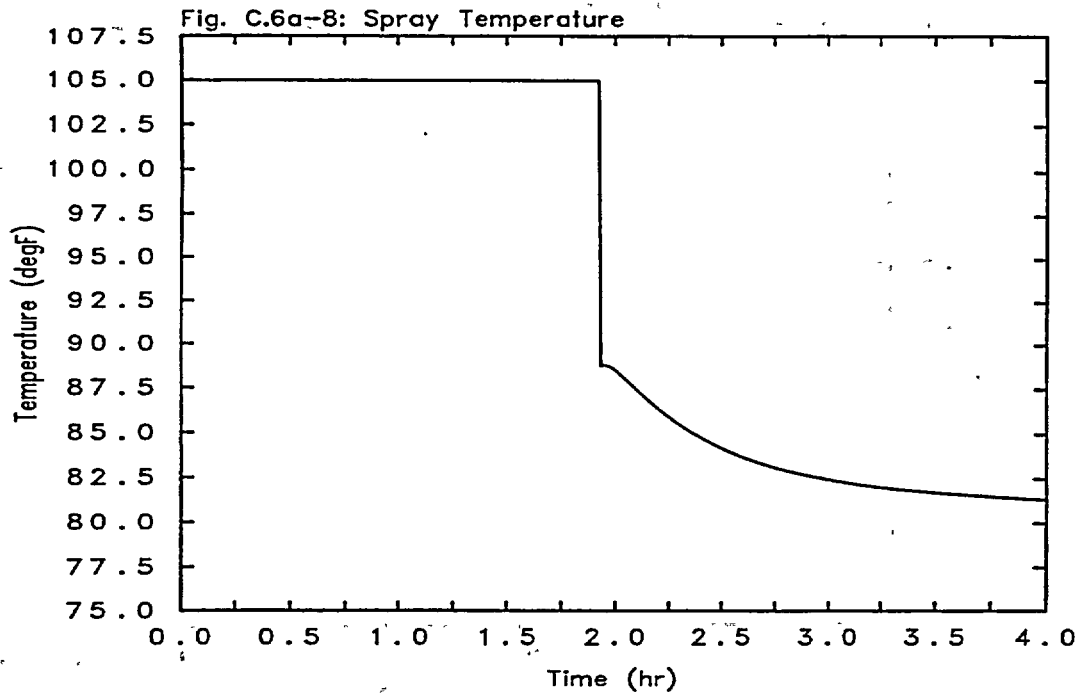
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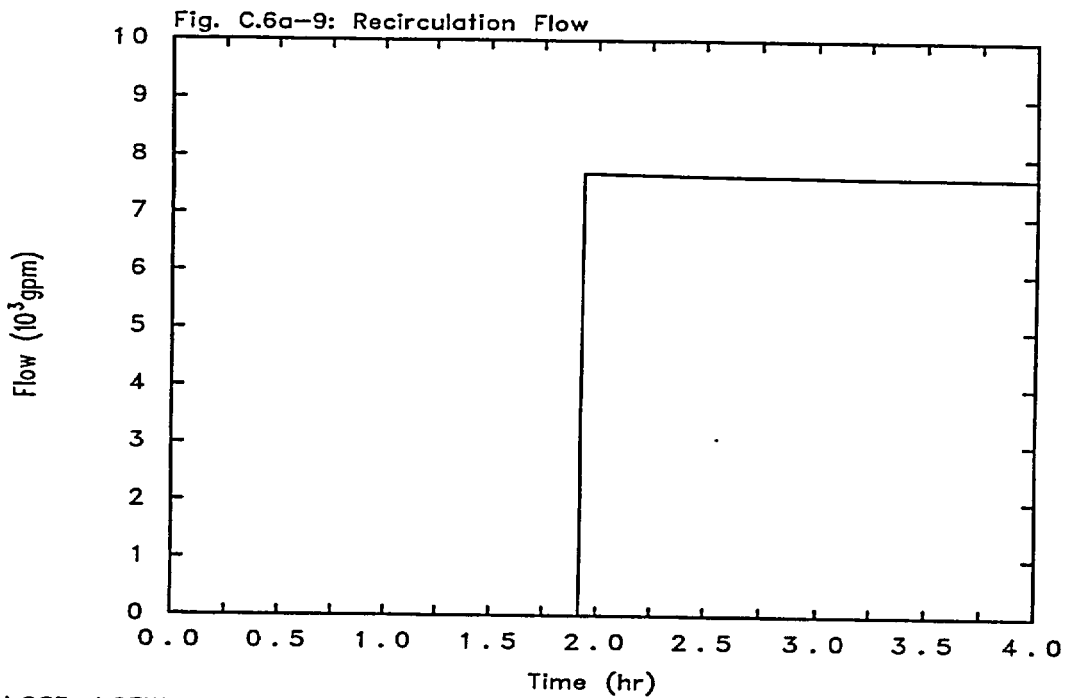
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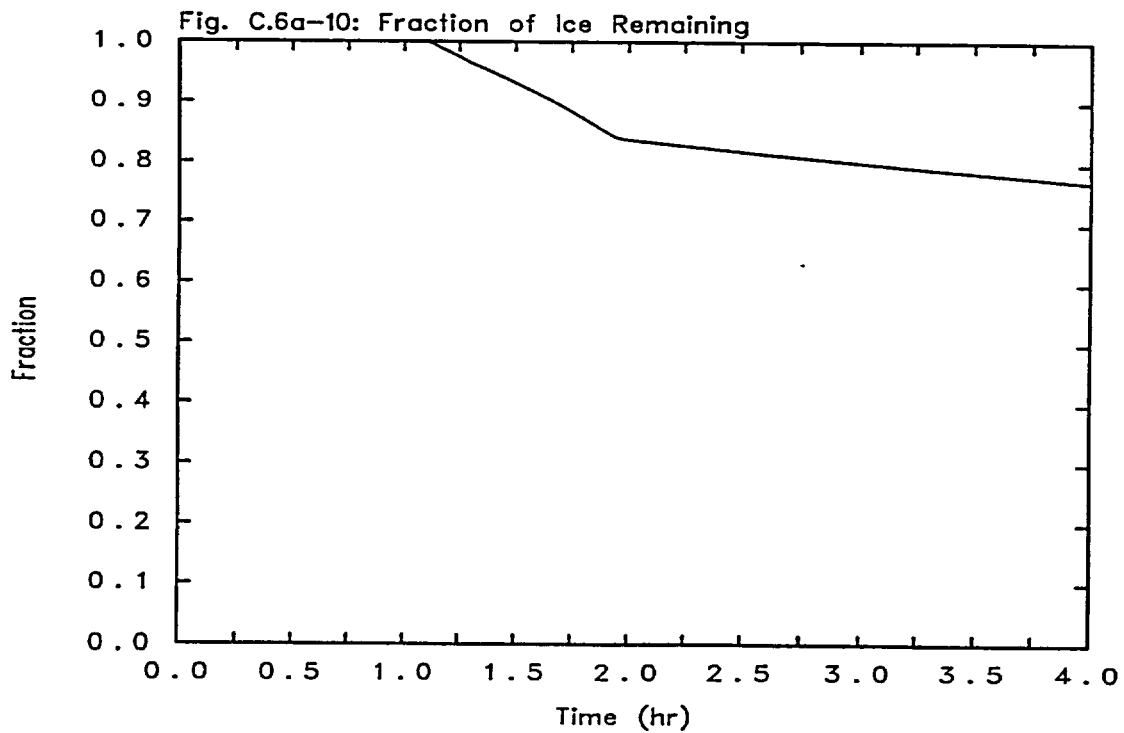
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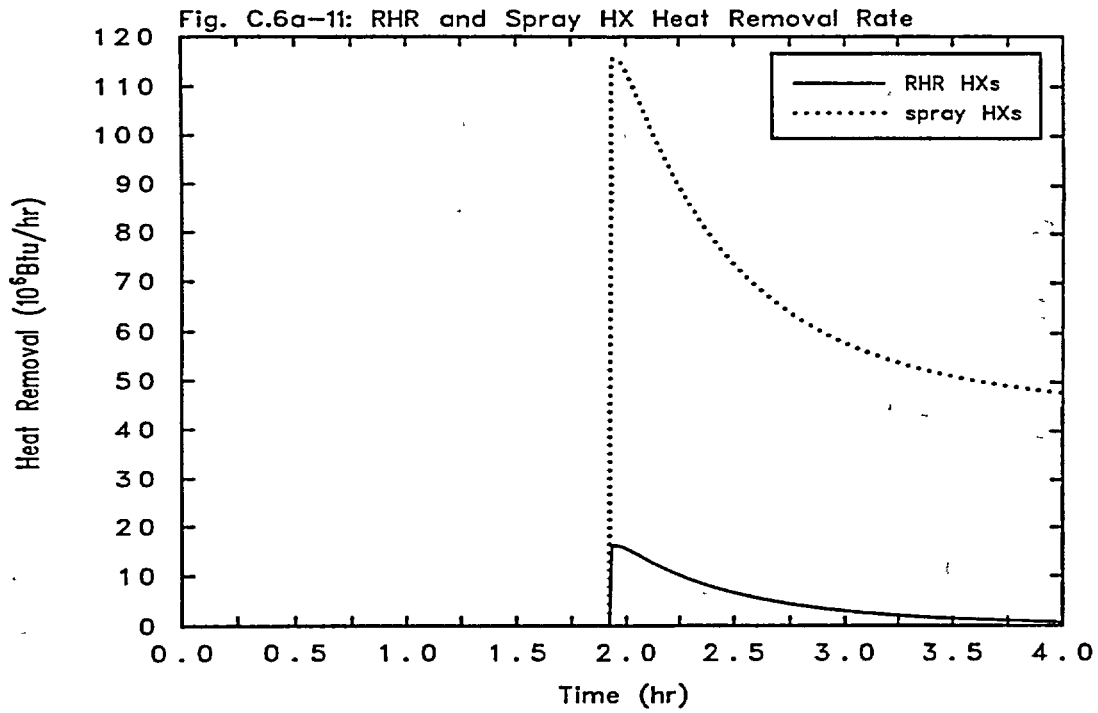
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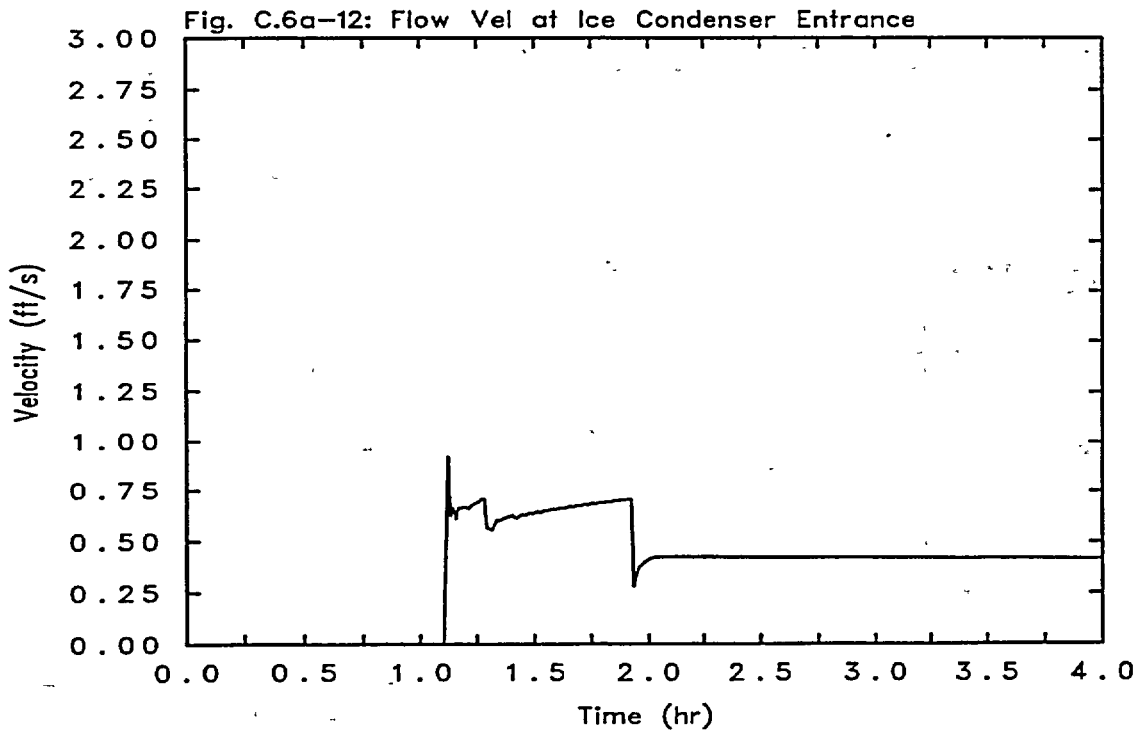
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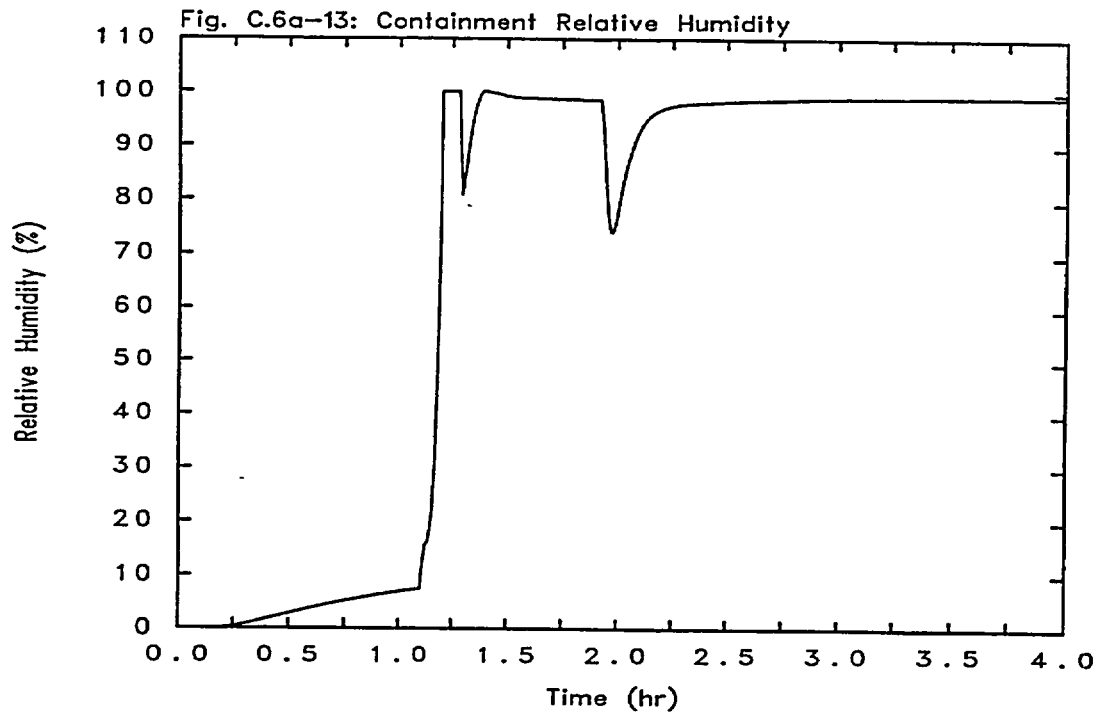
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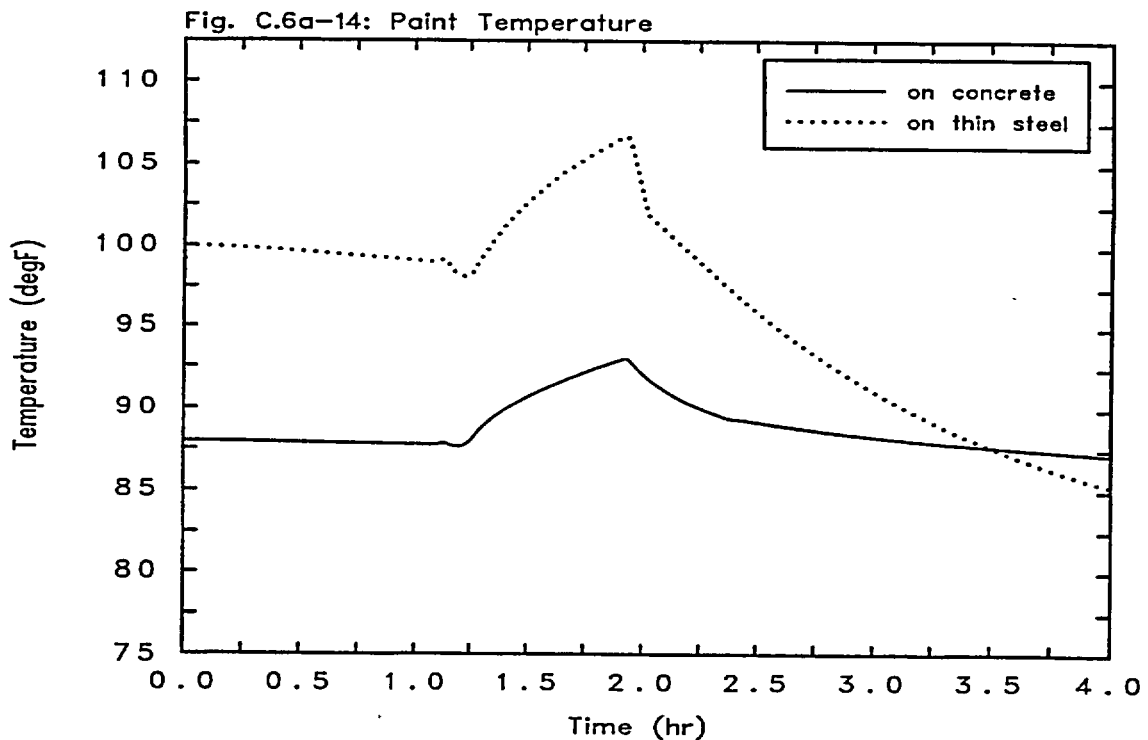
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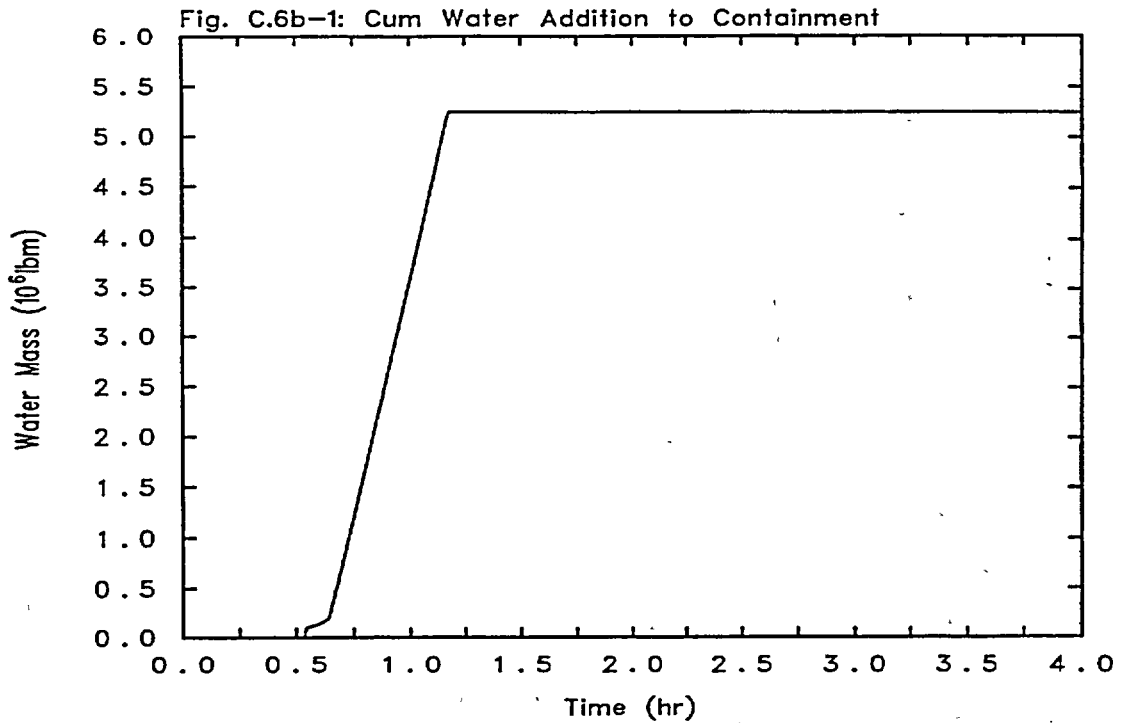
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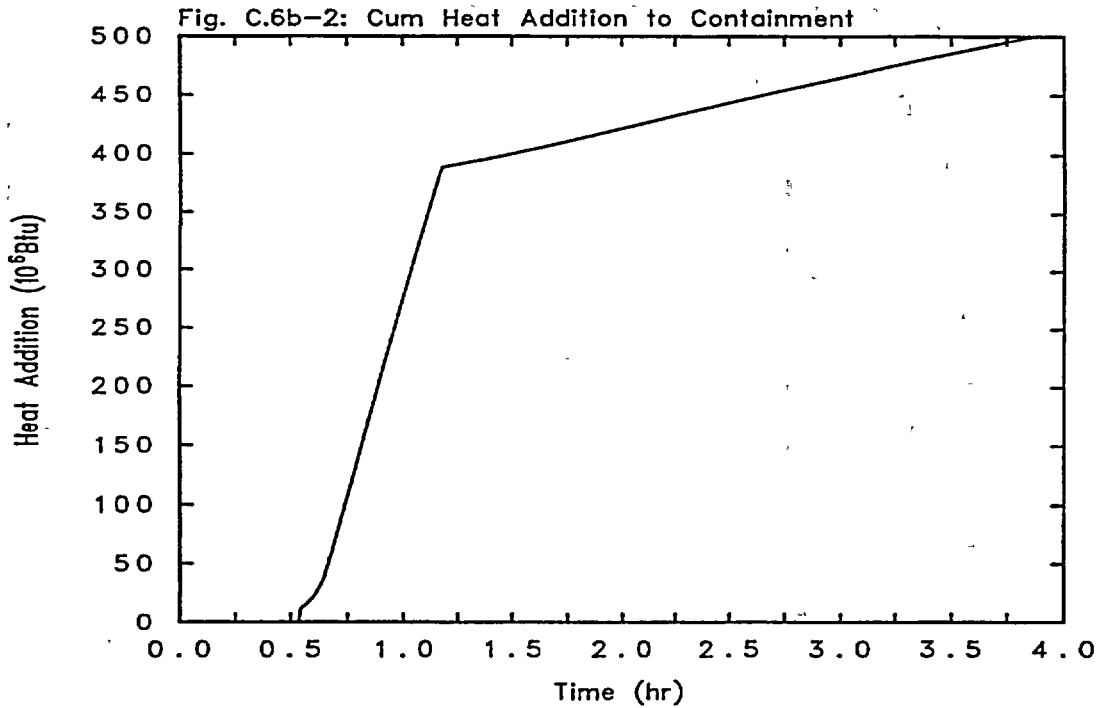
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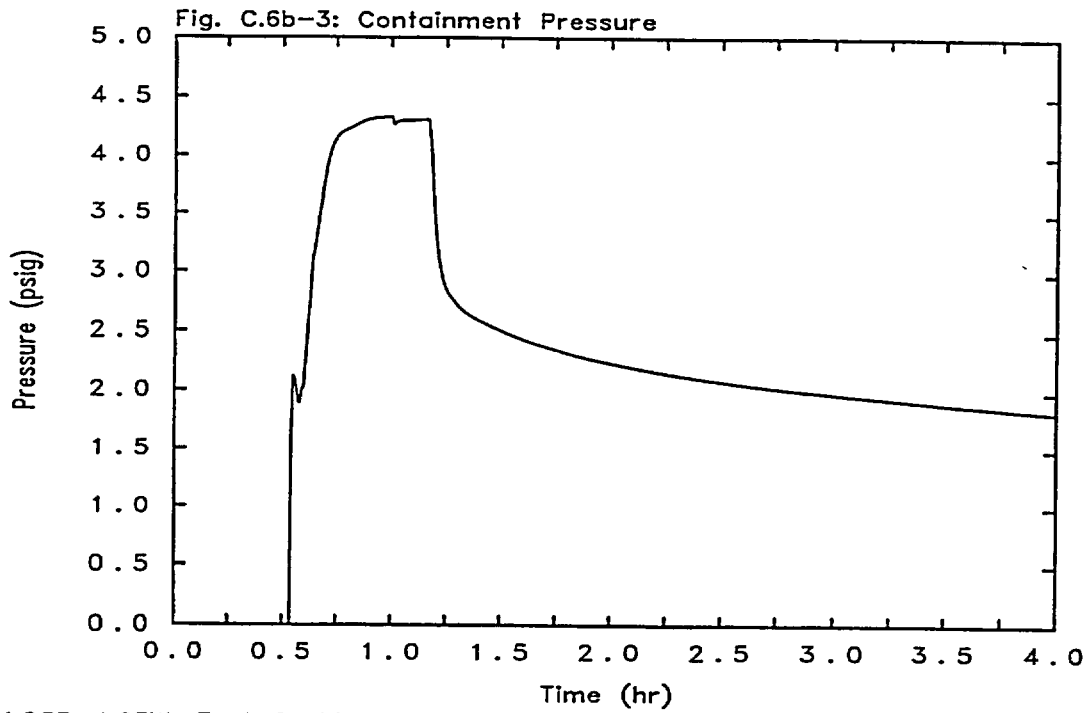
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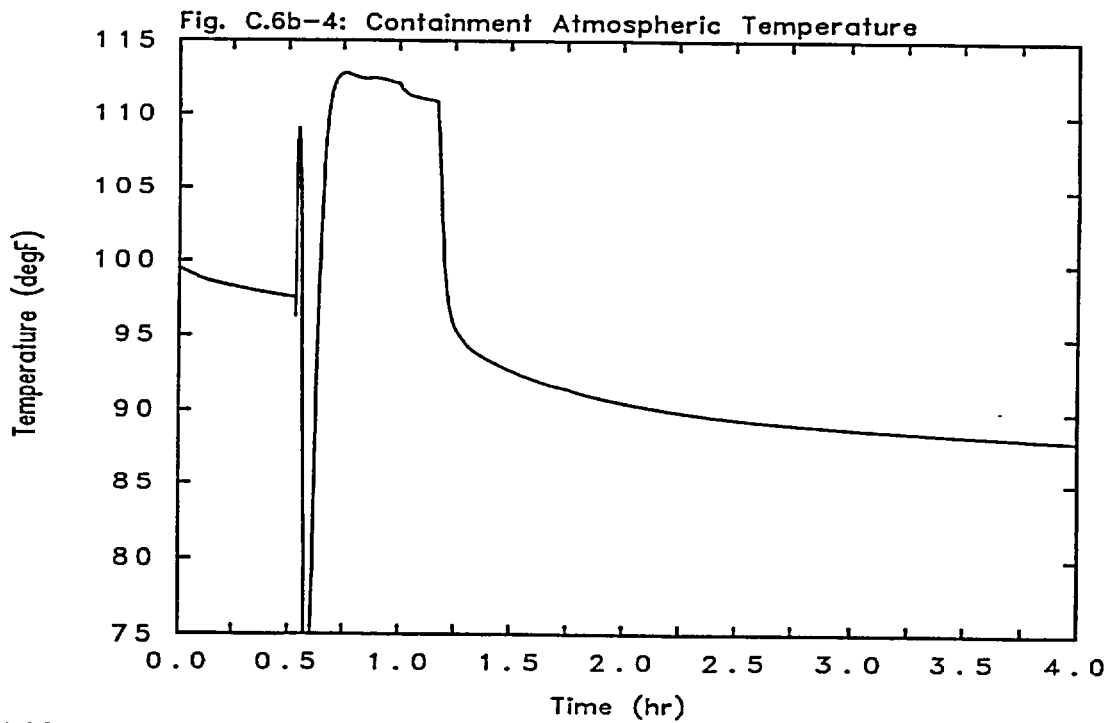
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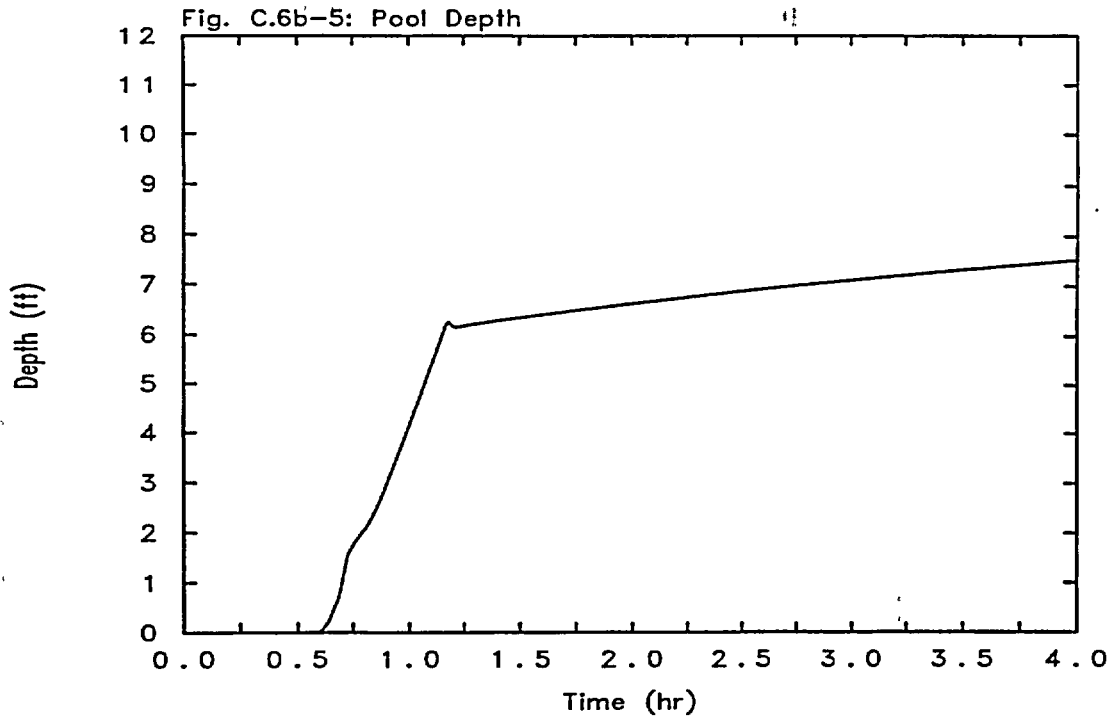
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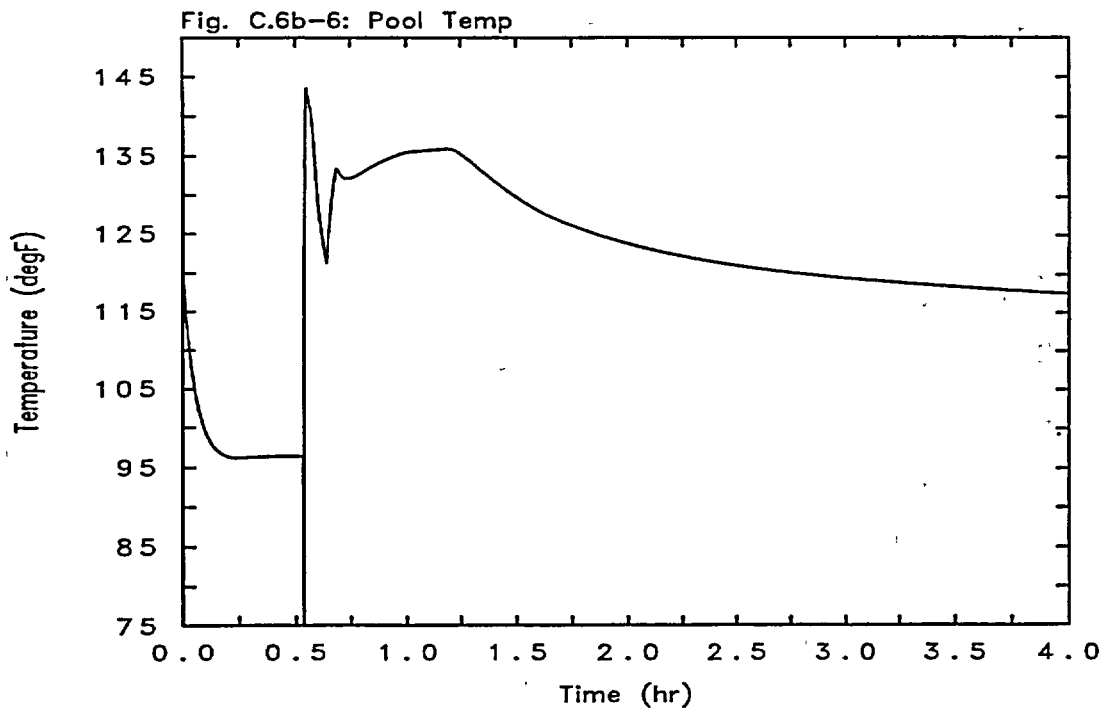
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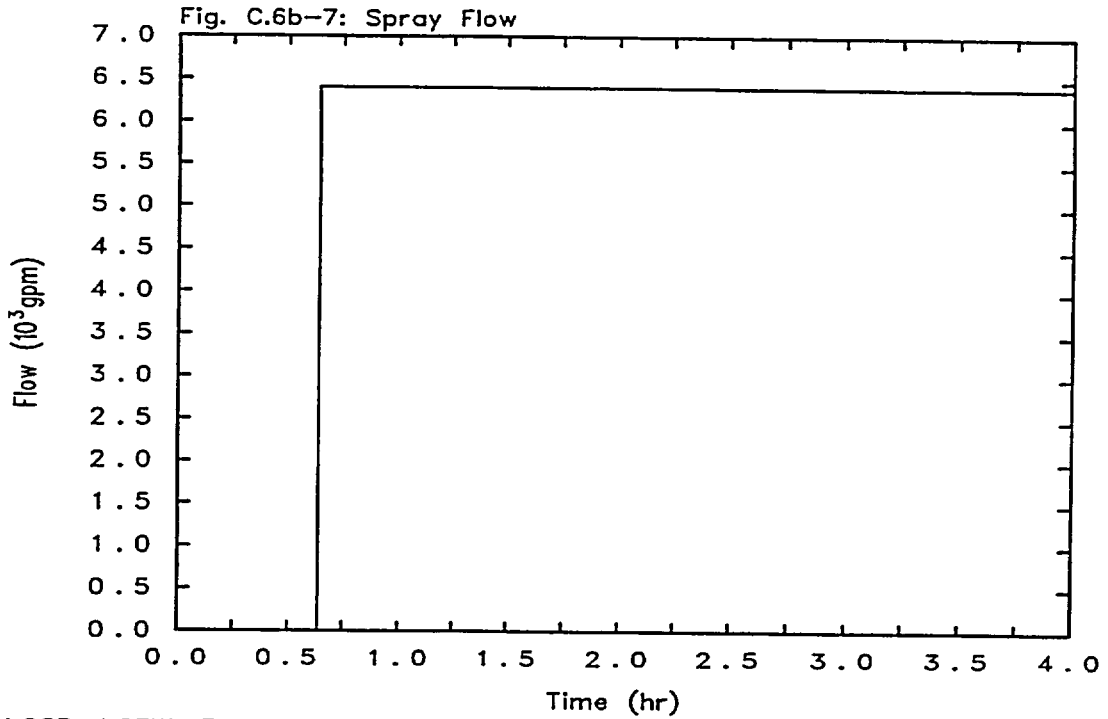
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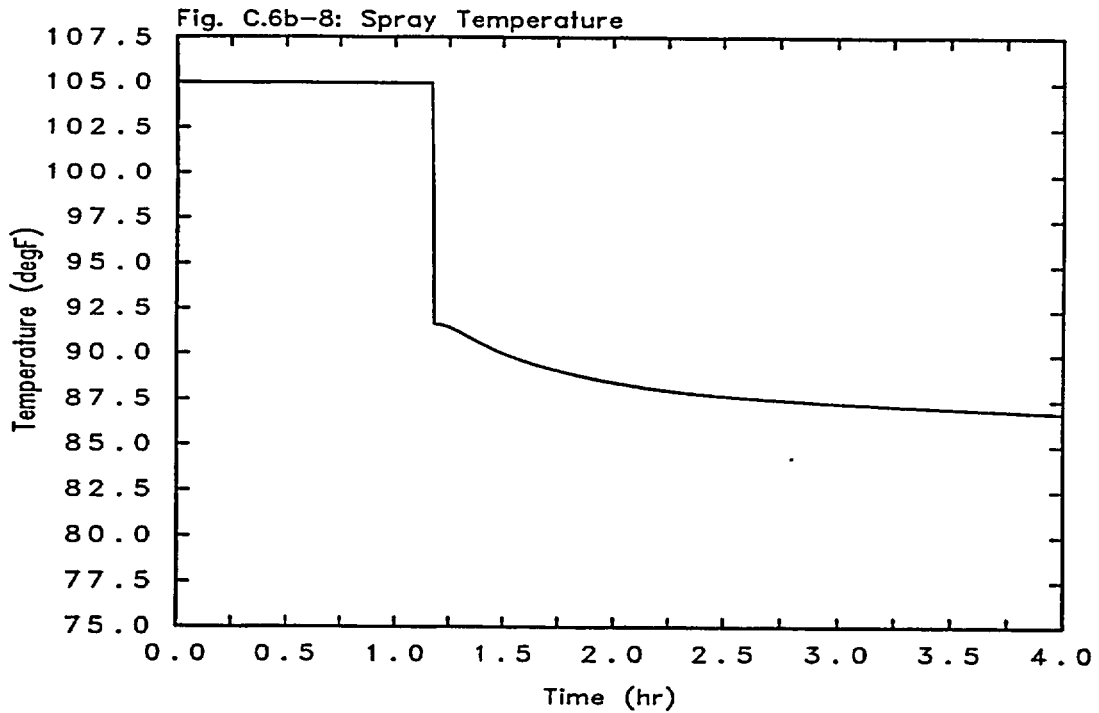
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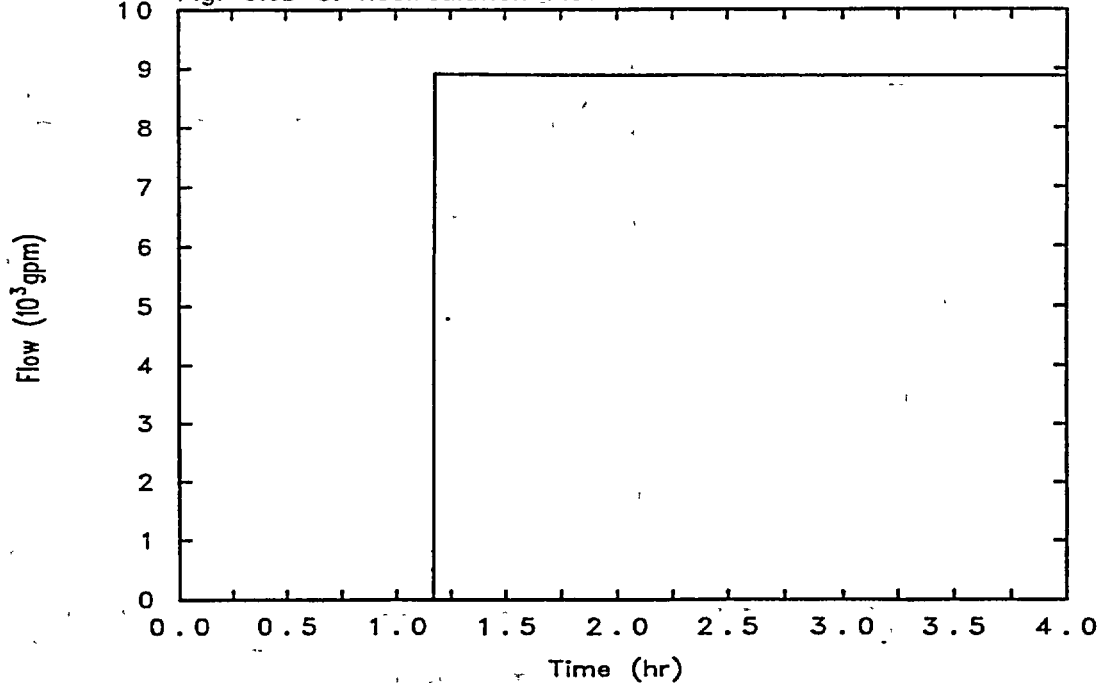


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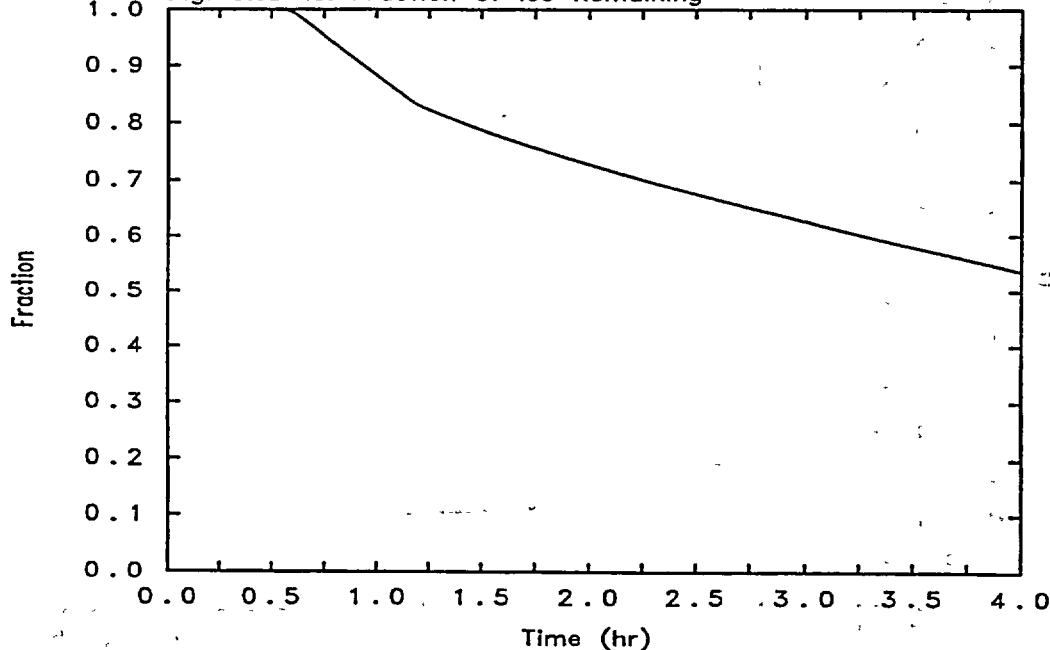
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Fig. C.6b-9: Recirculation Flow

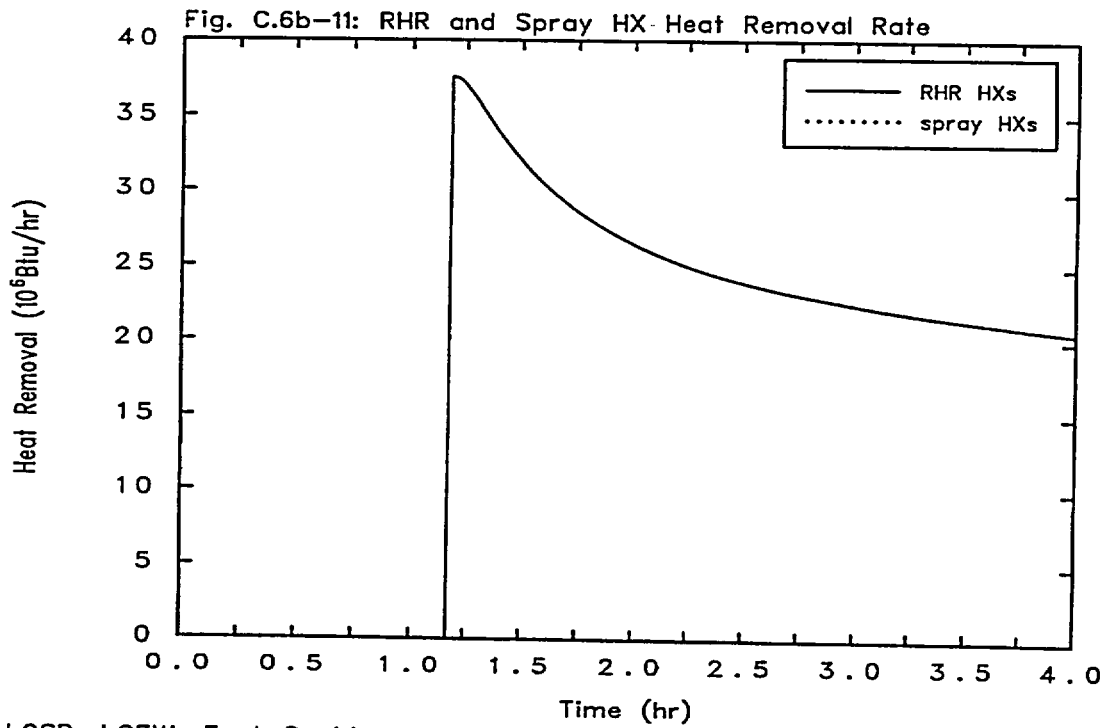


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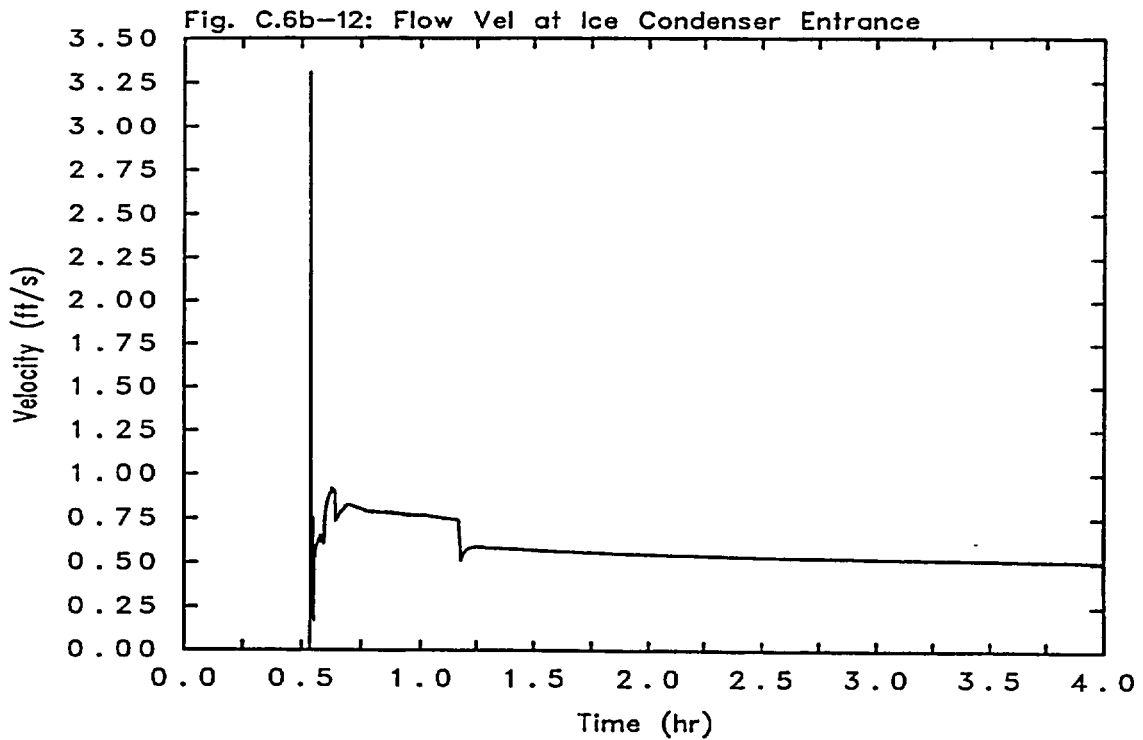
Fig. C.6b-10: Fraction of Ice Remaining



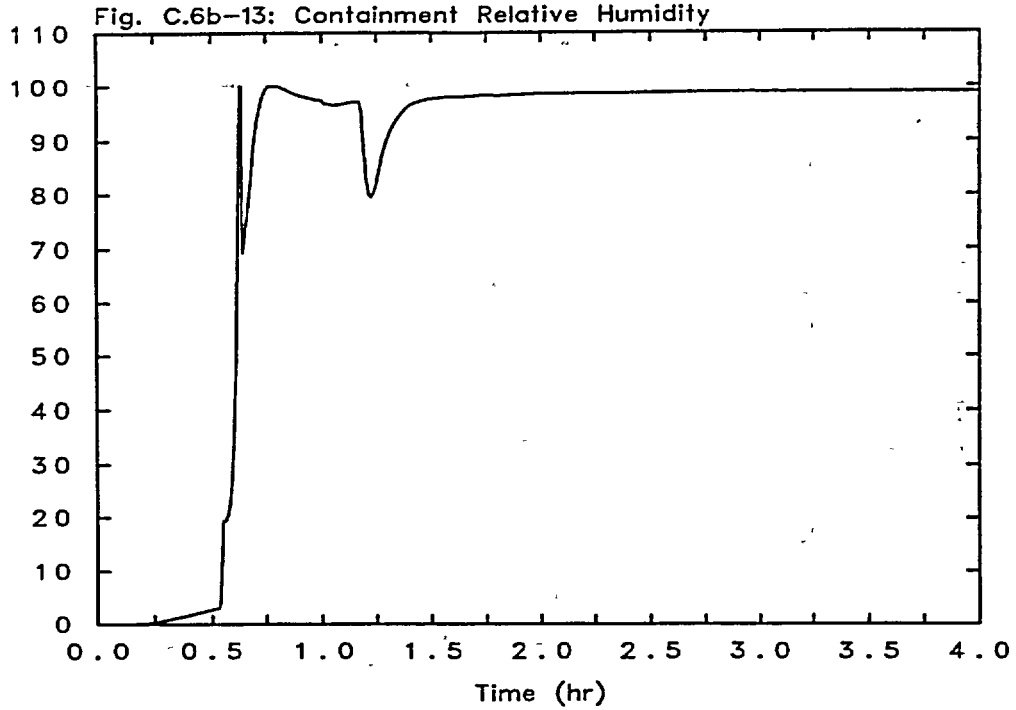
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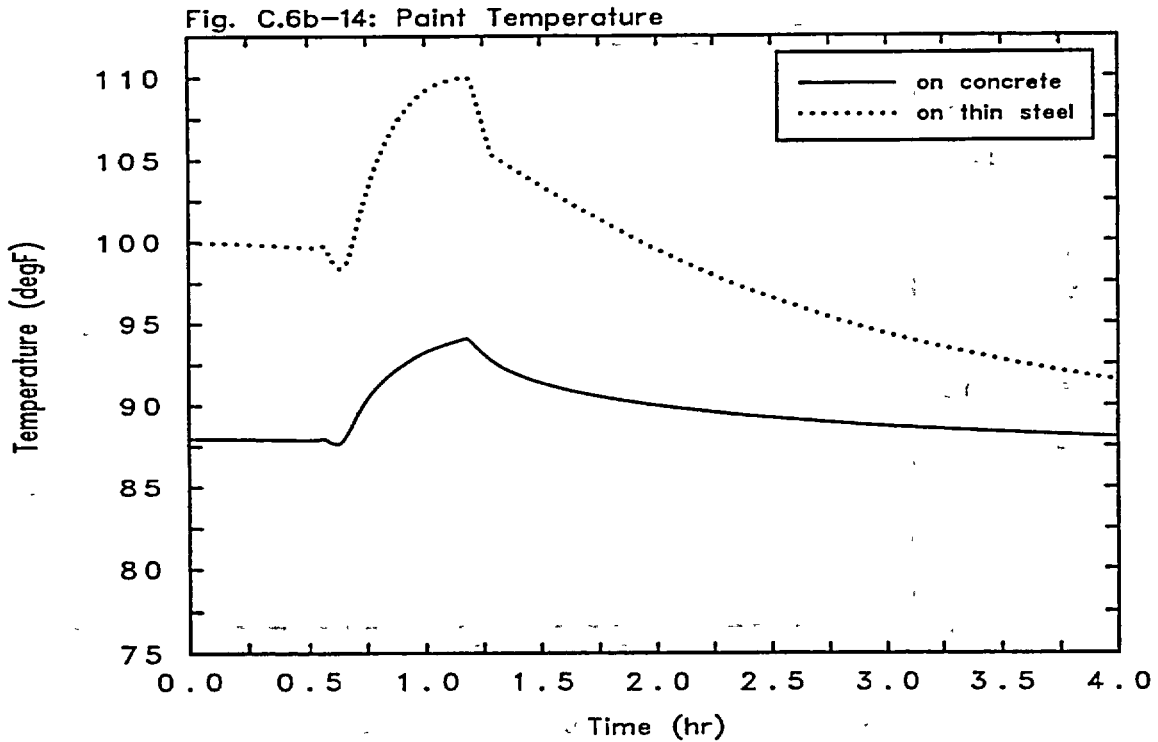
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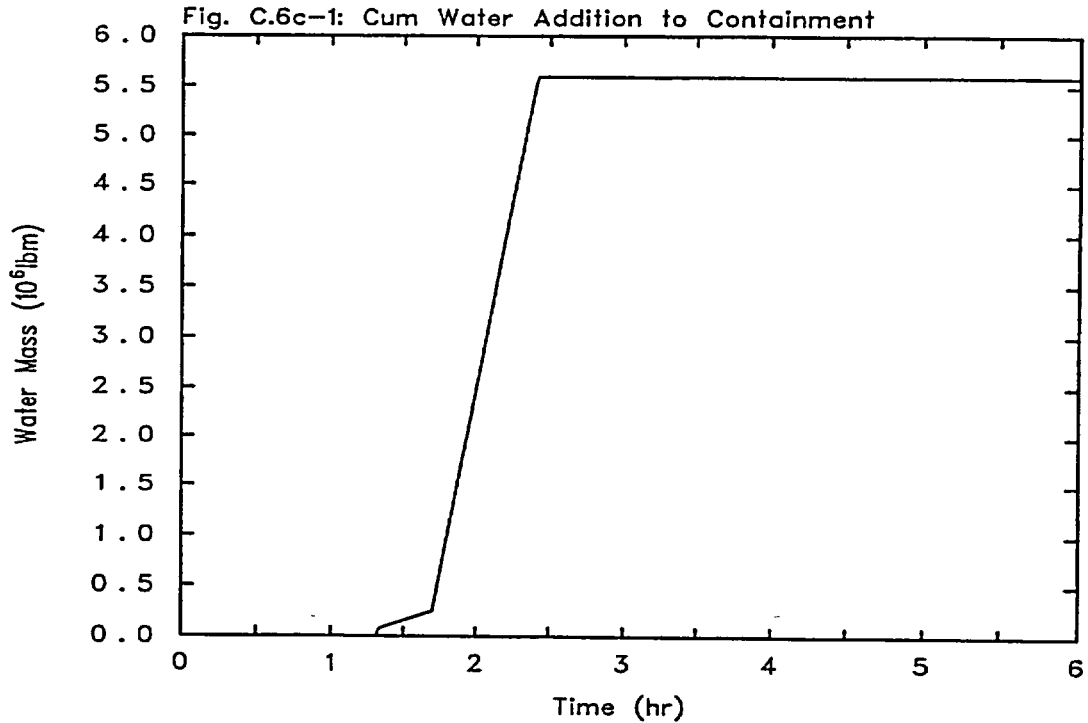
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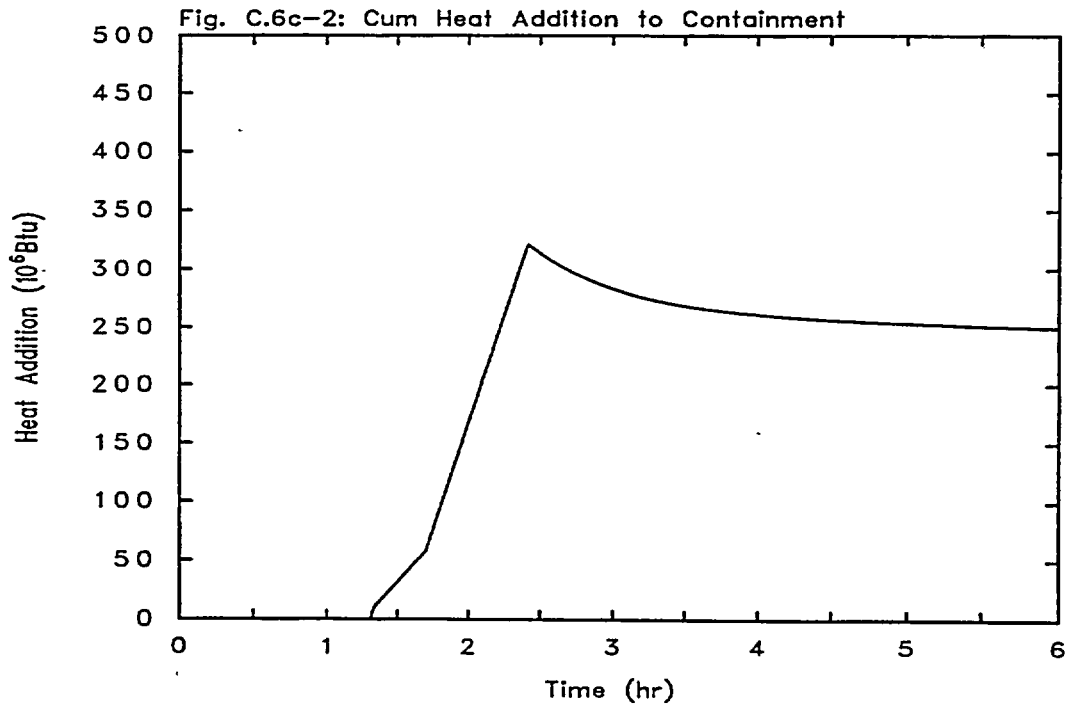
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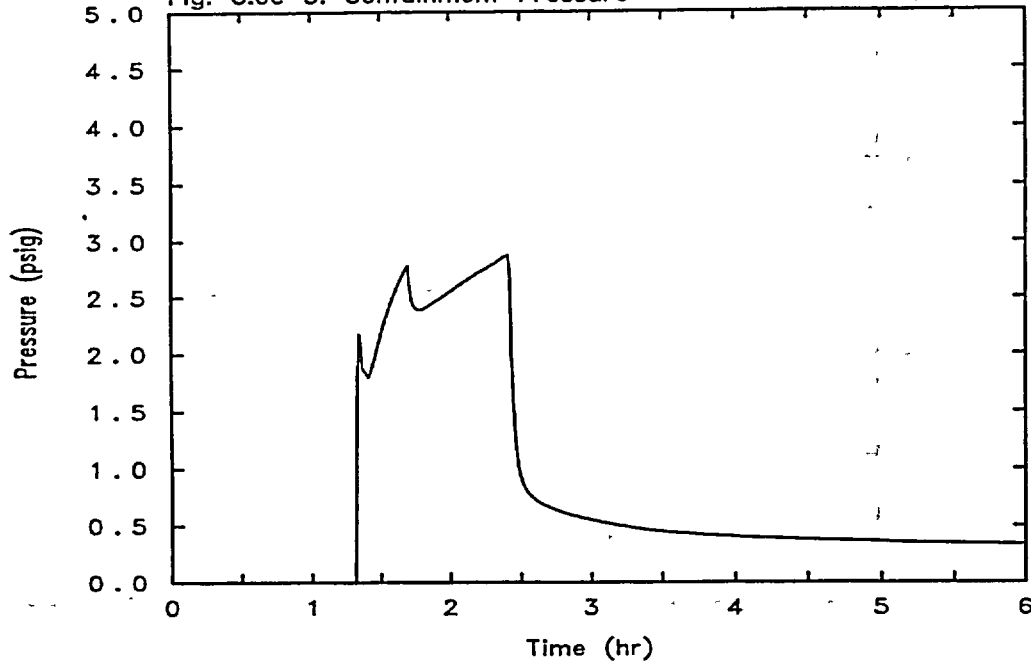


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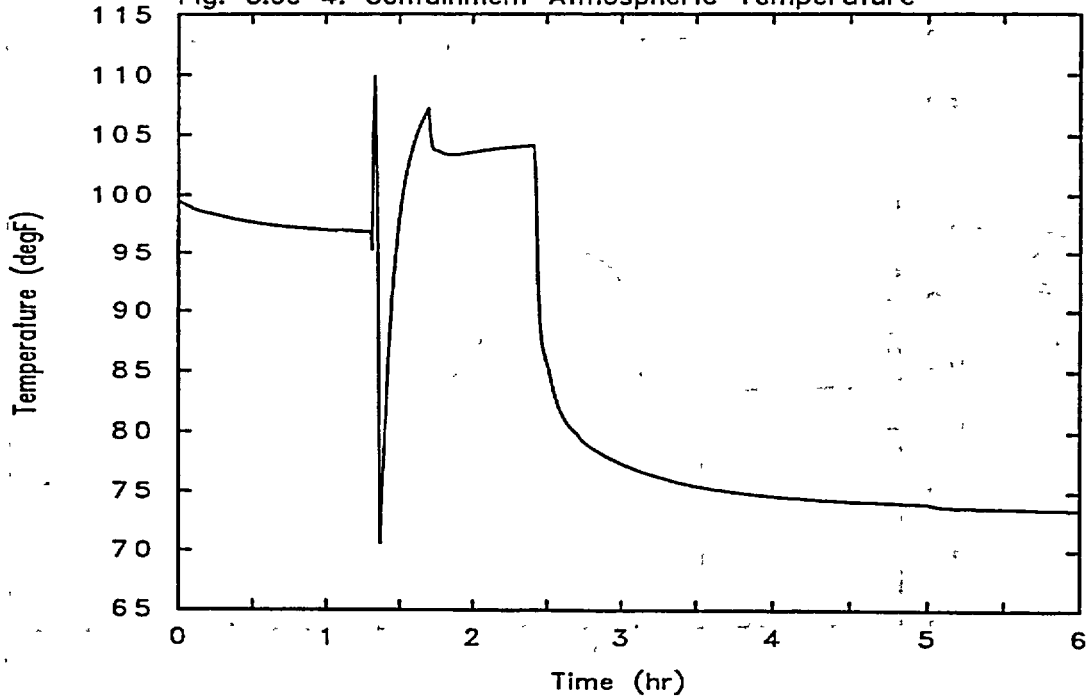
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Fig. C.6c-3: Containment Pressure

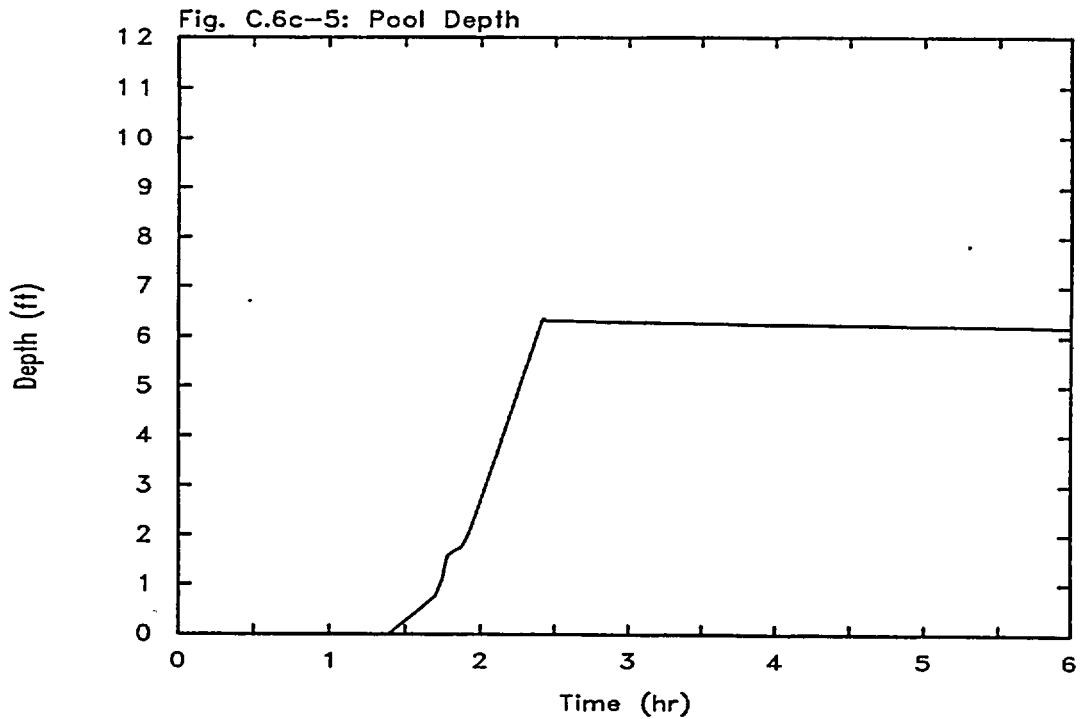


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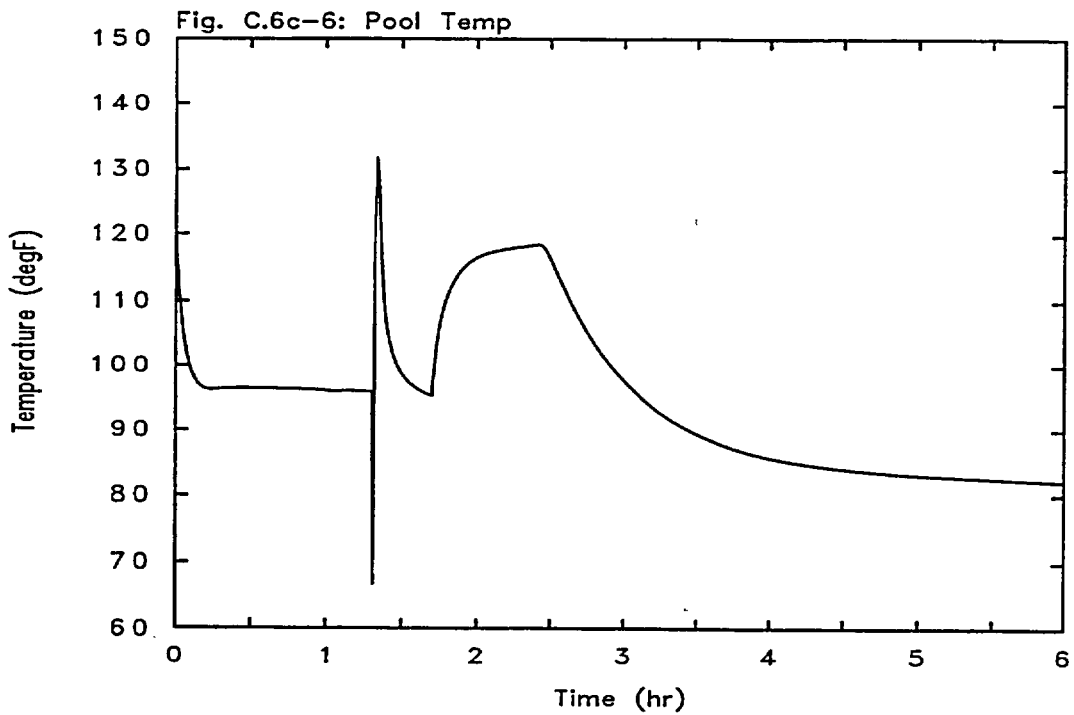
Fig. C.6c-4: Containment Atmospheric Temperature



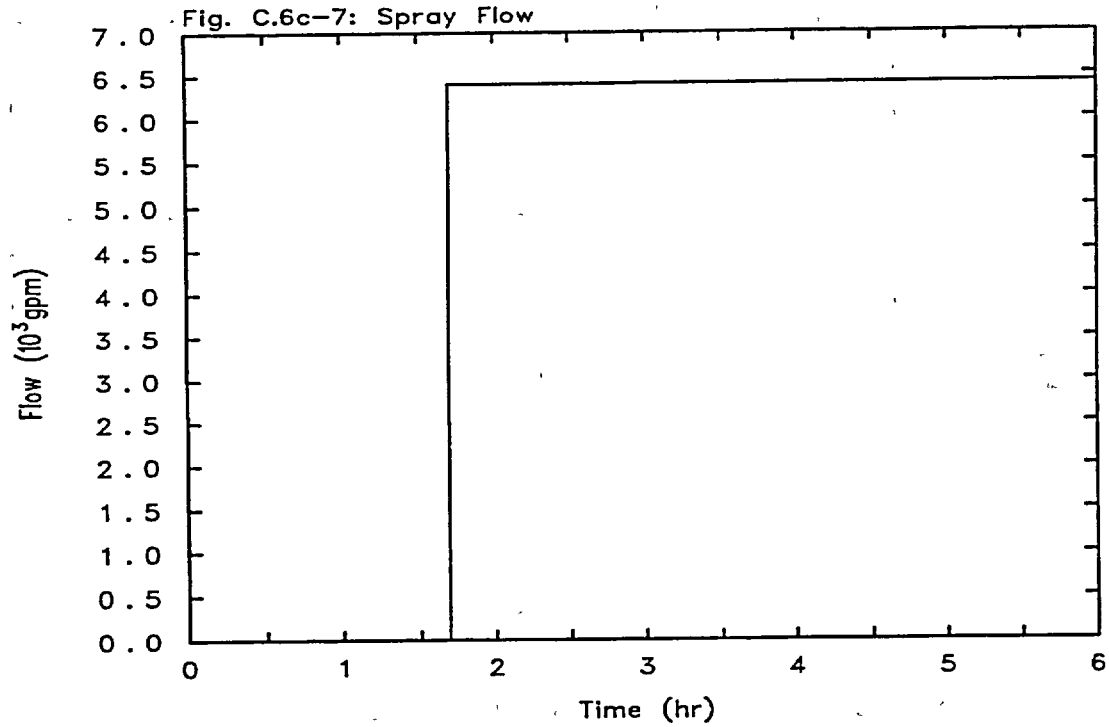
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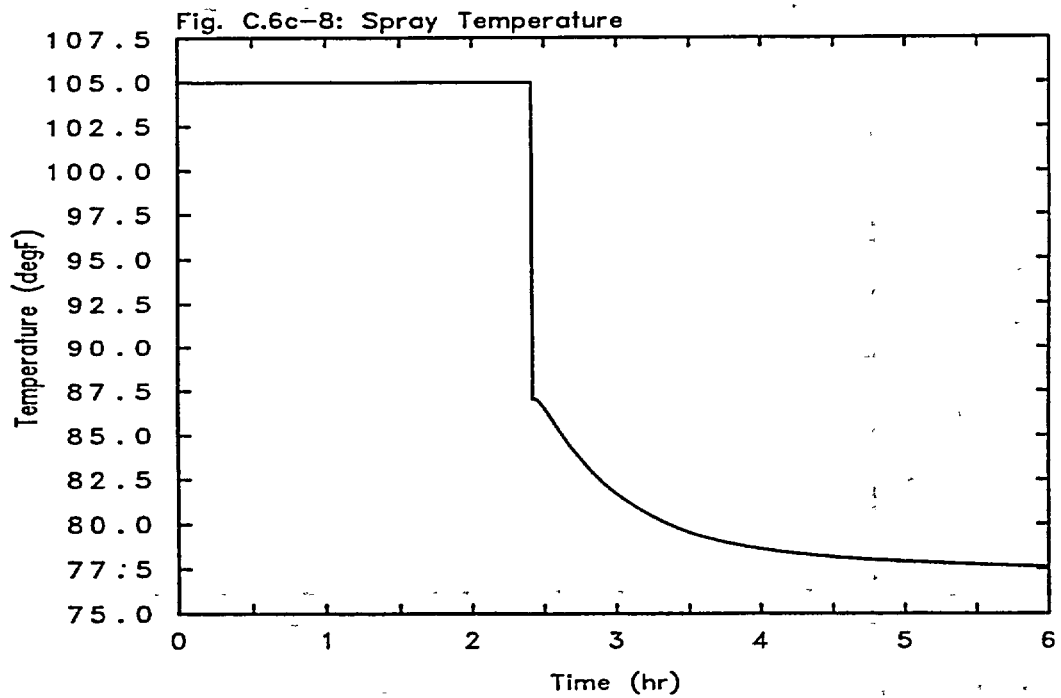
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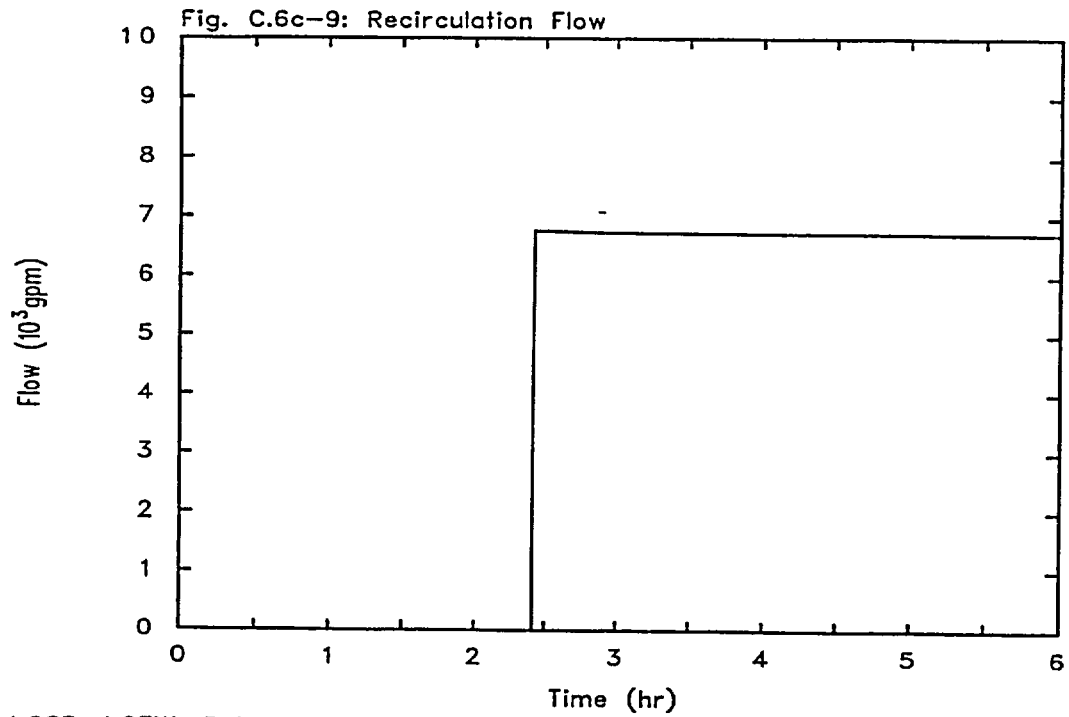
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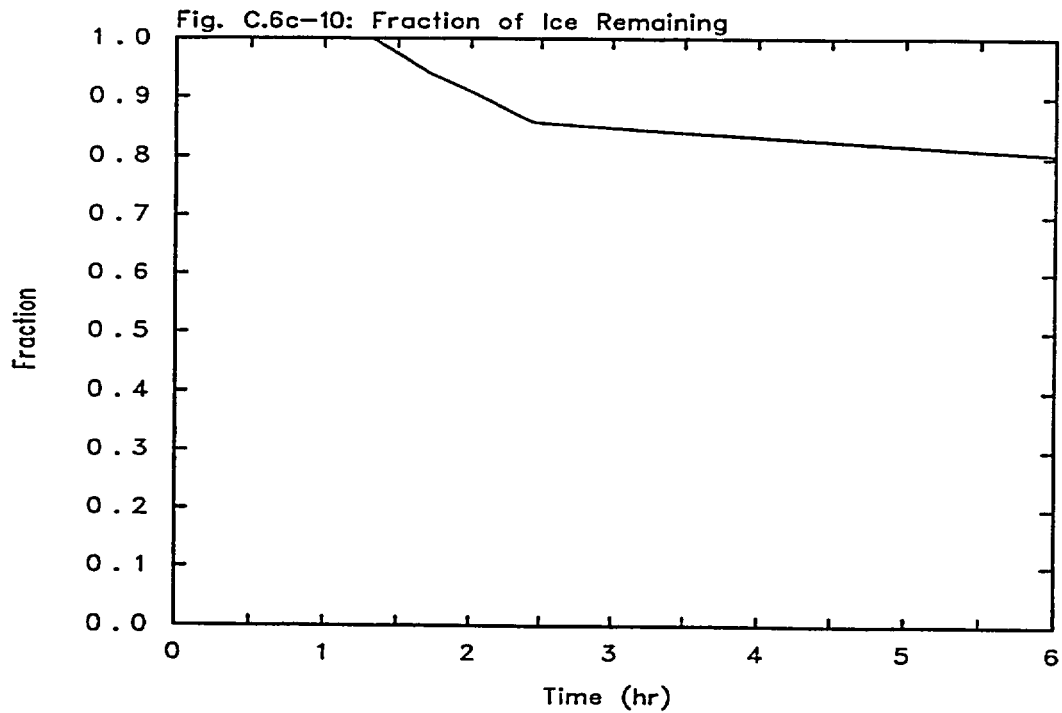
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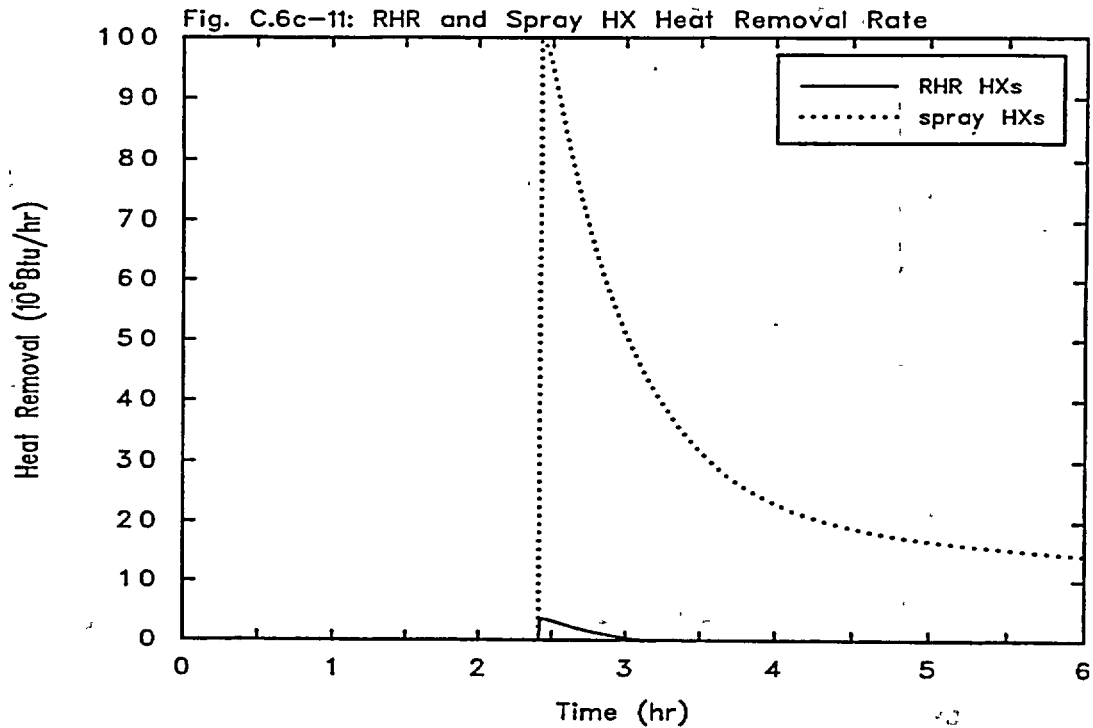
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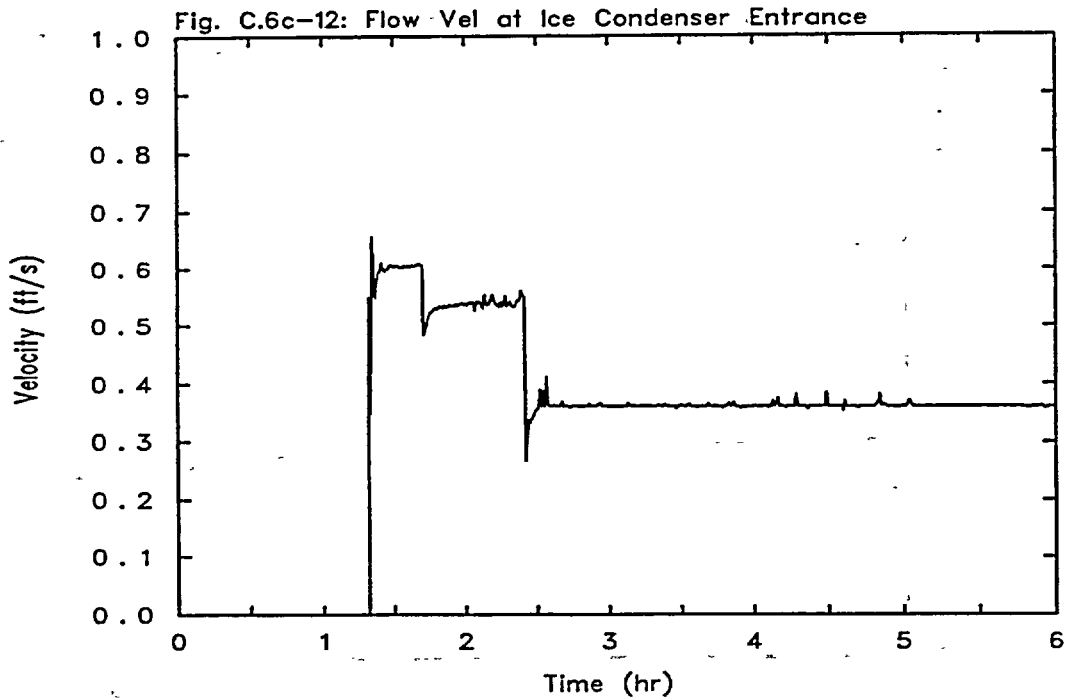
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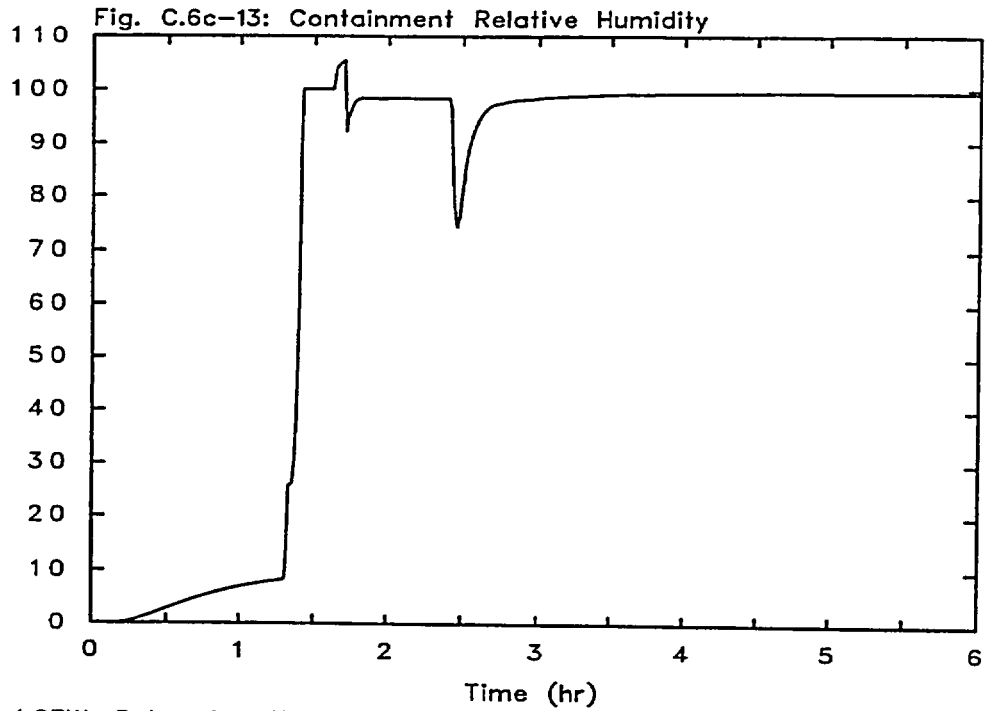
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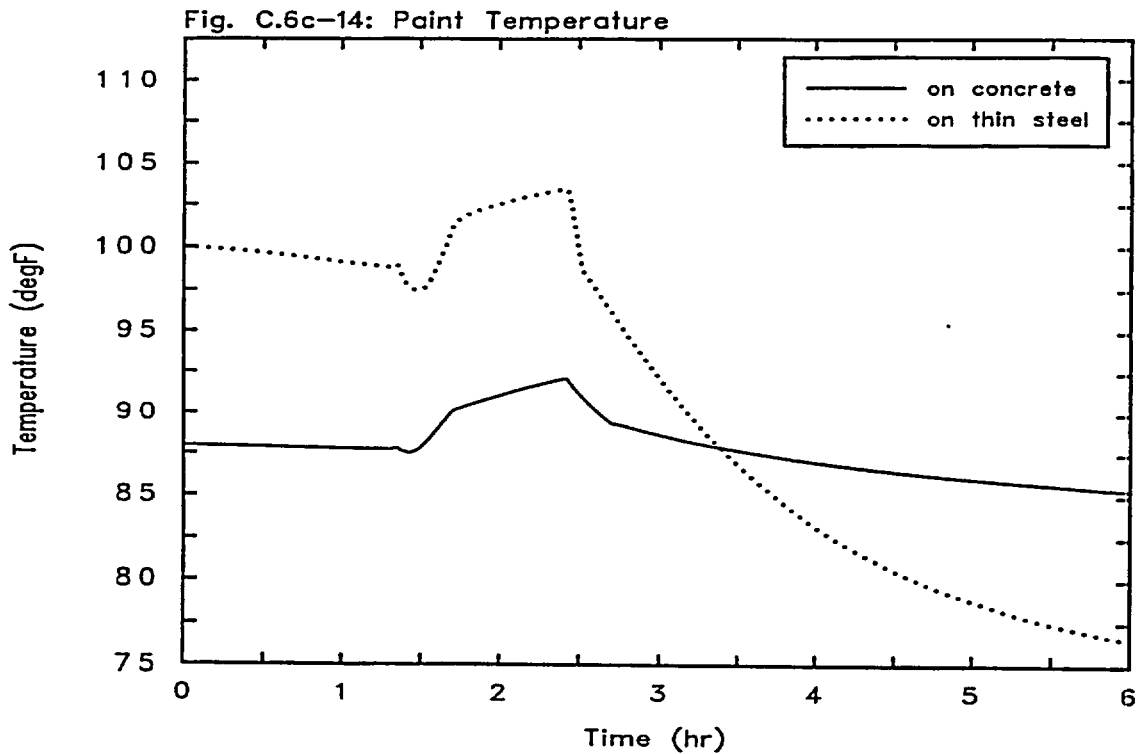
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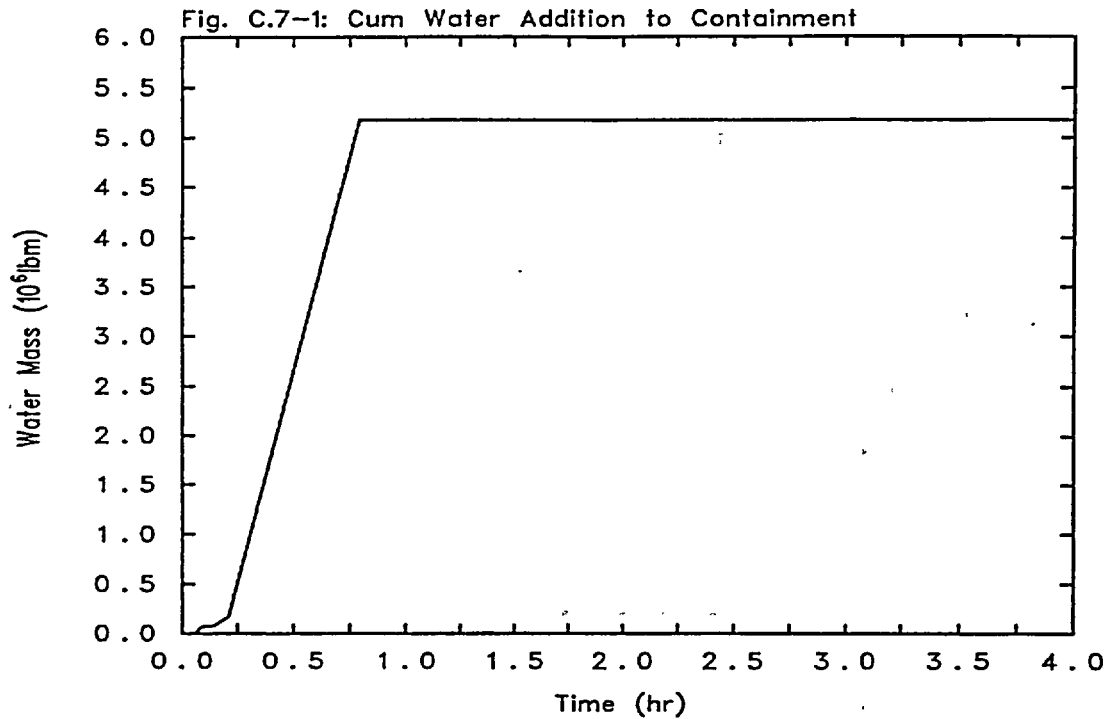
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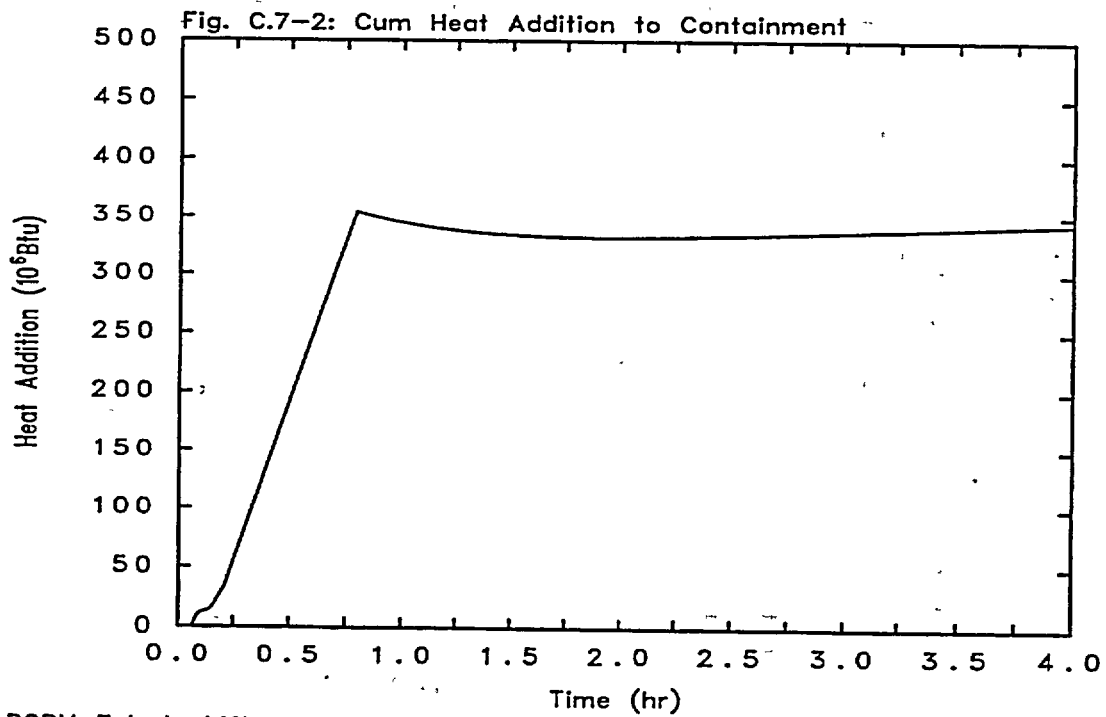
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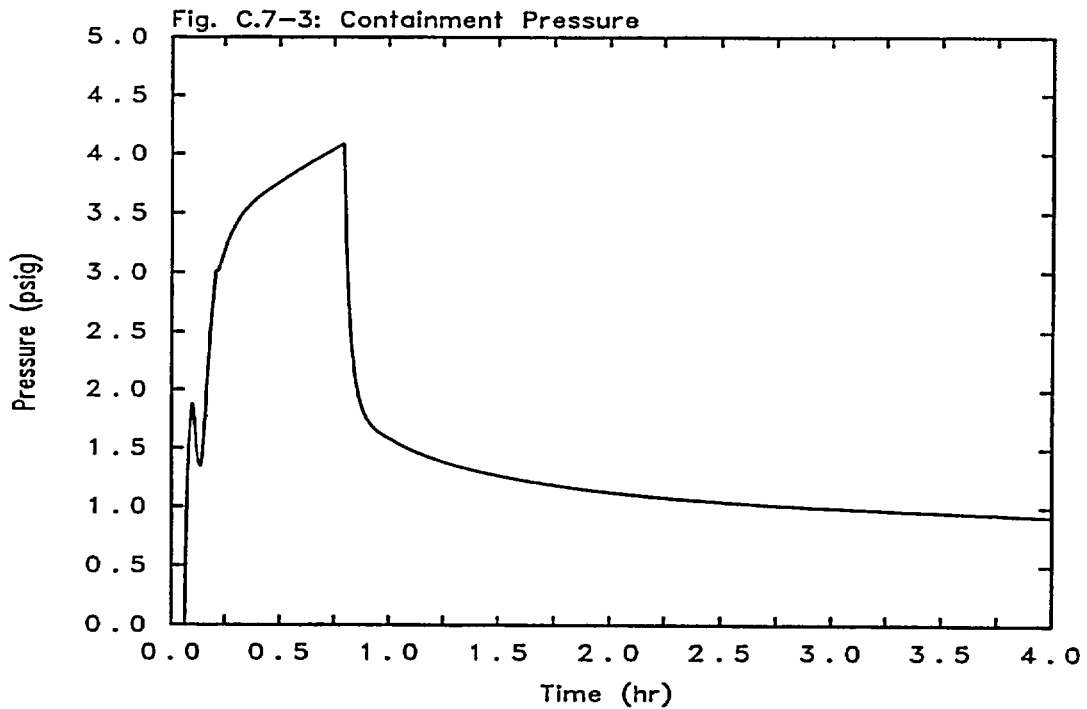
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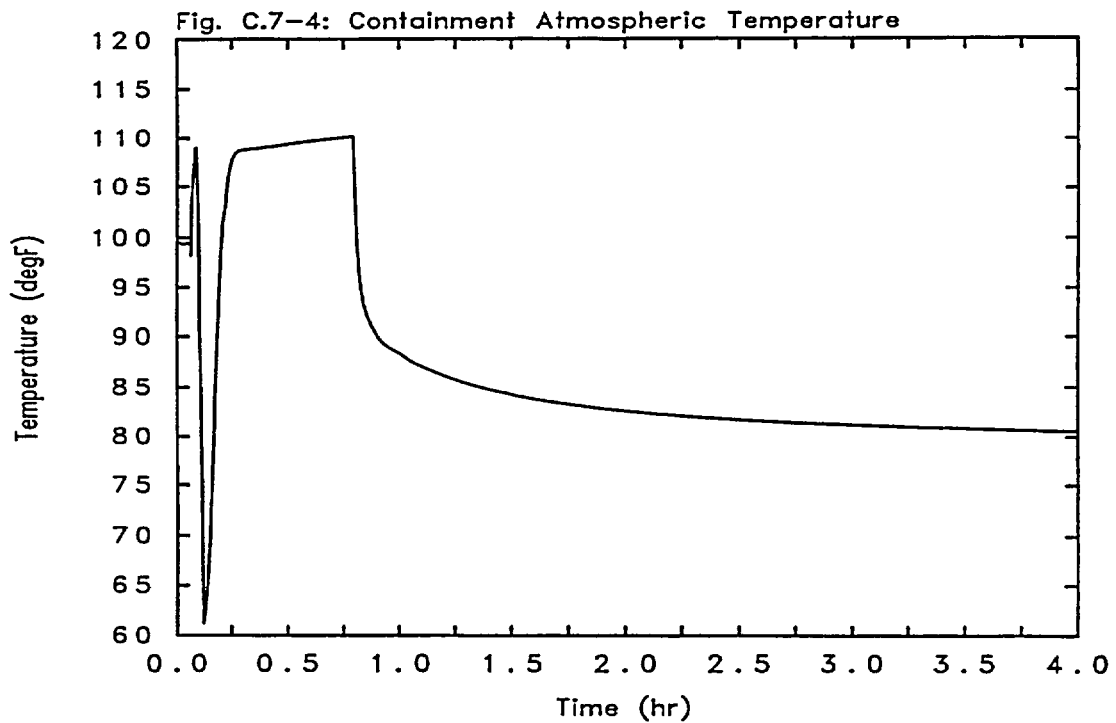
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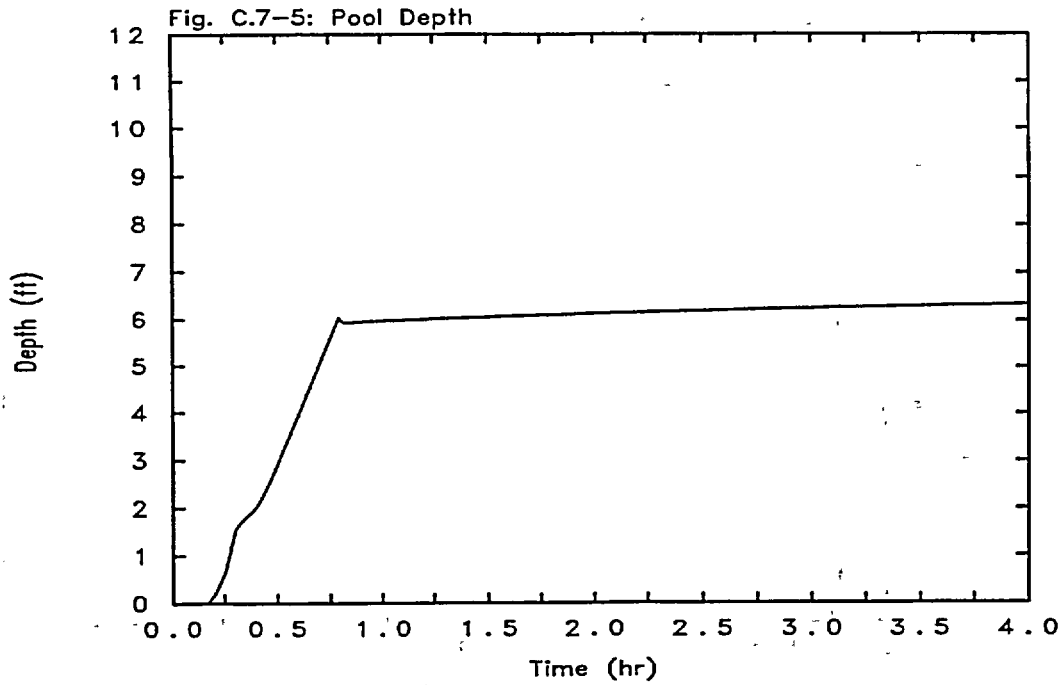
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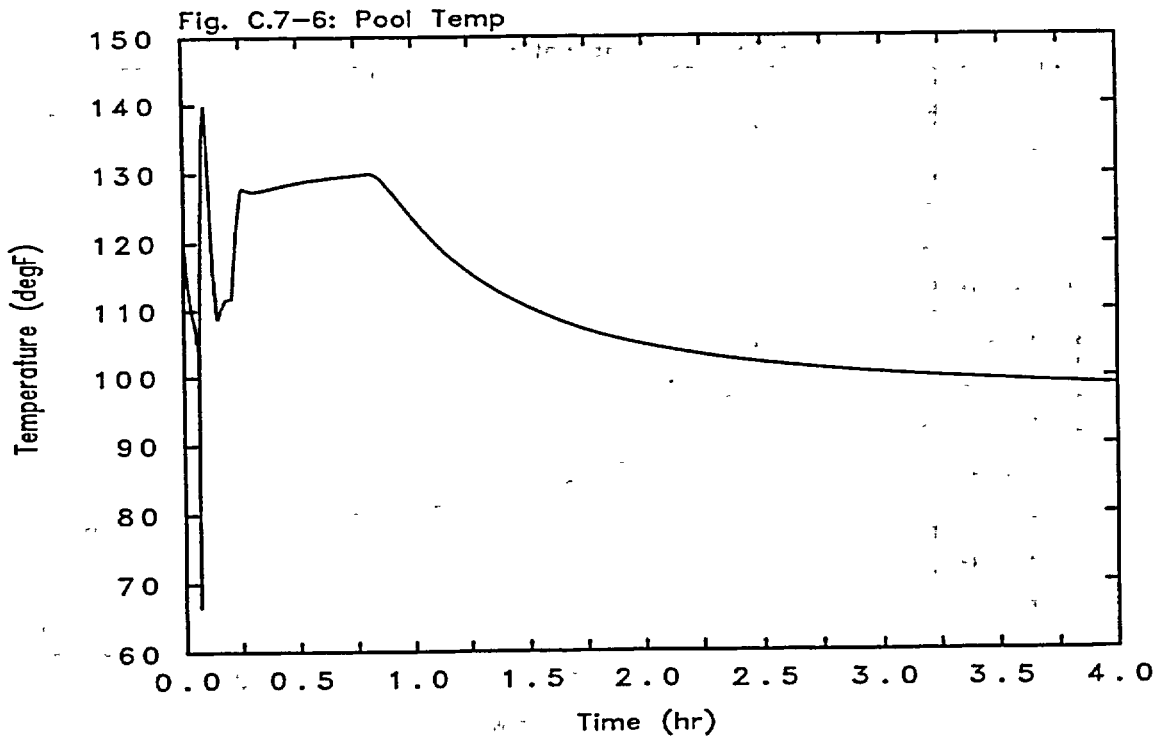
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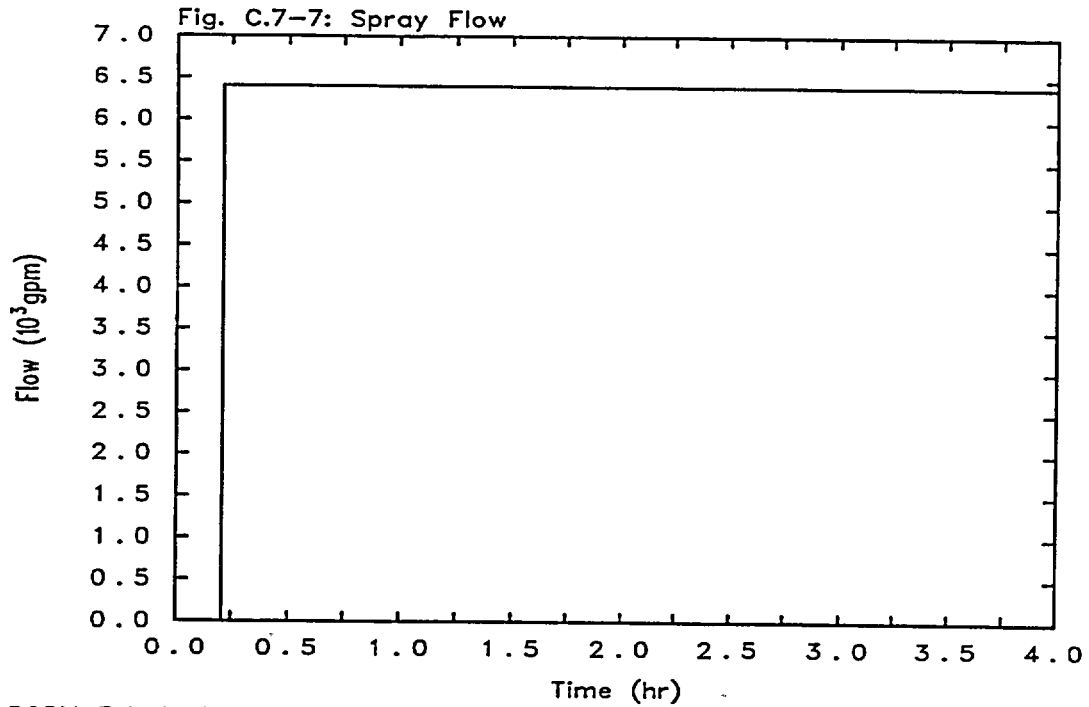
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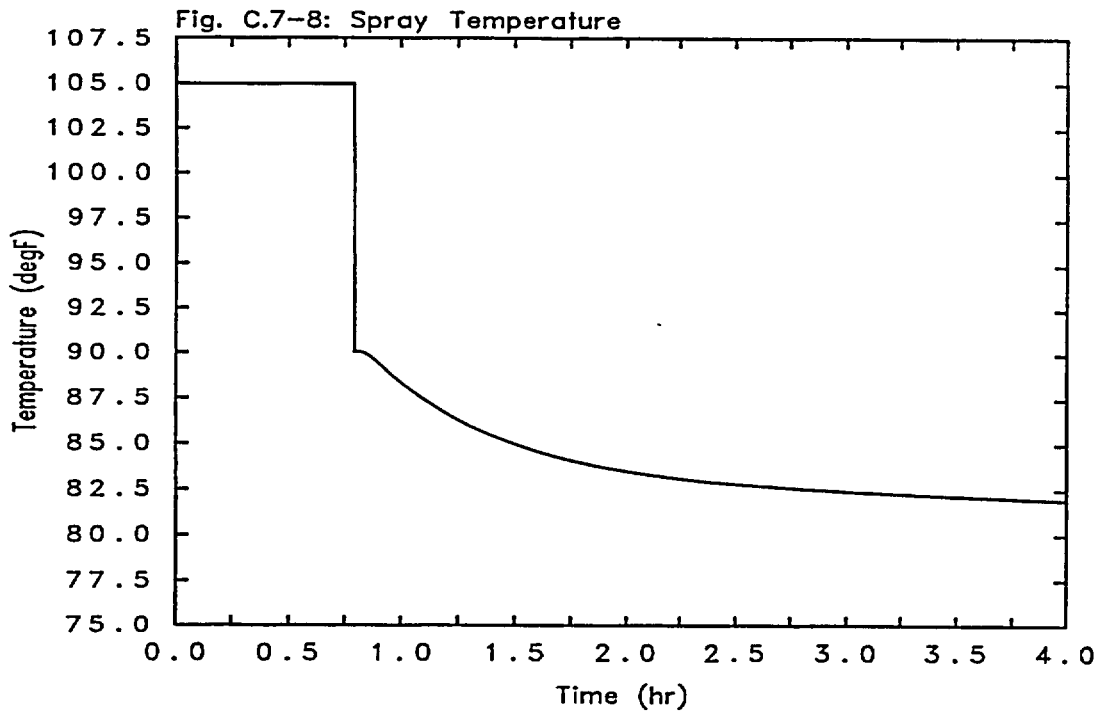
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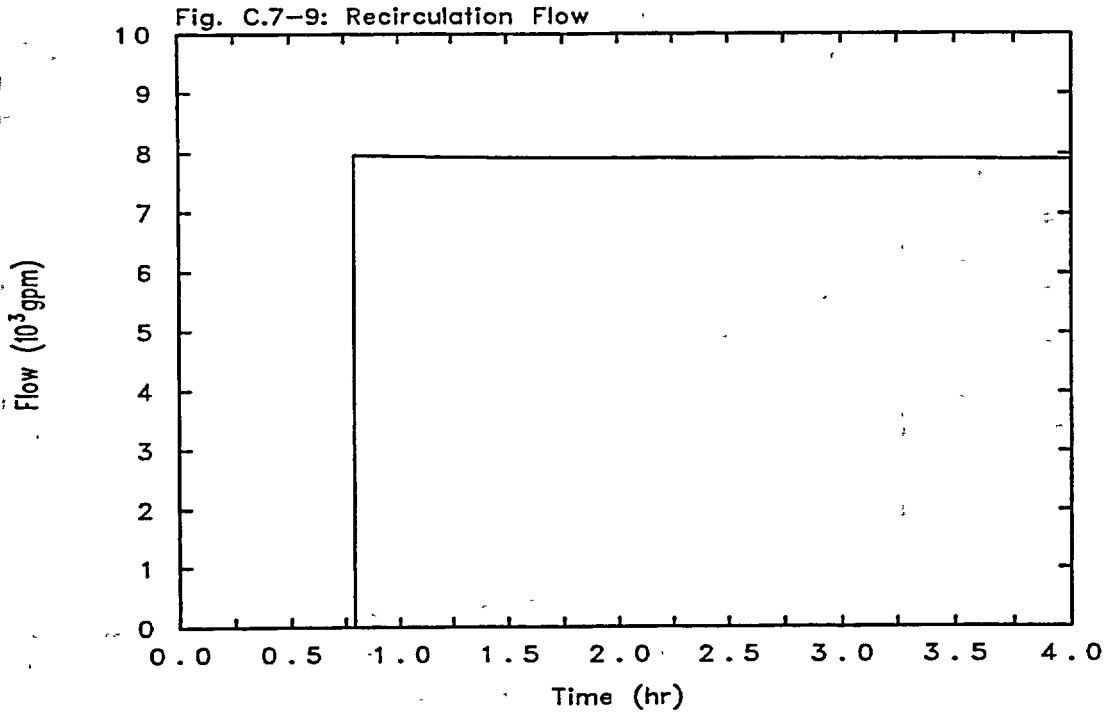
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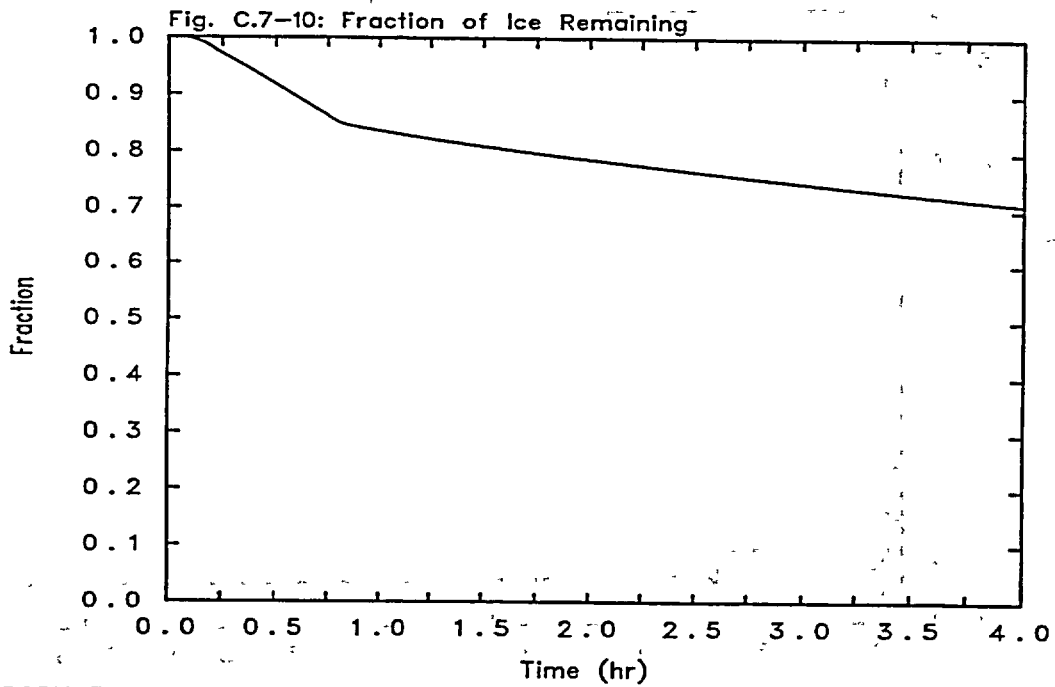
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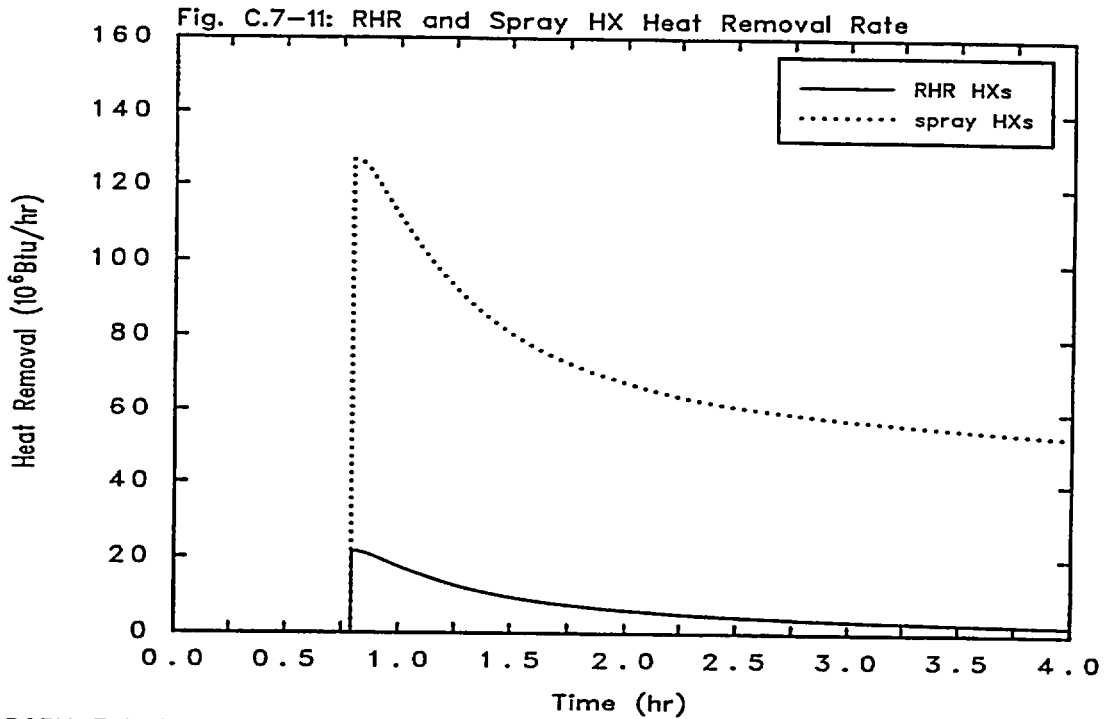
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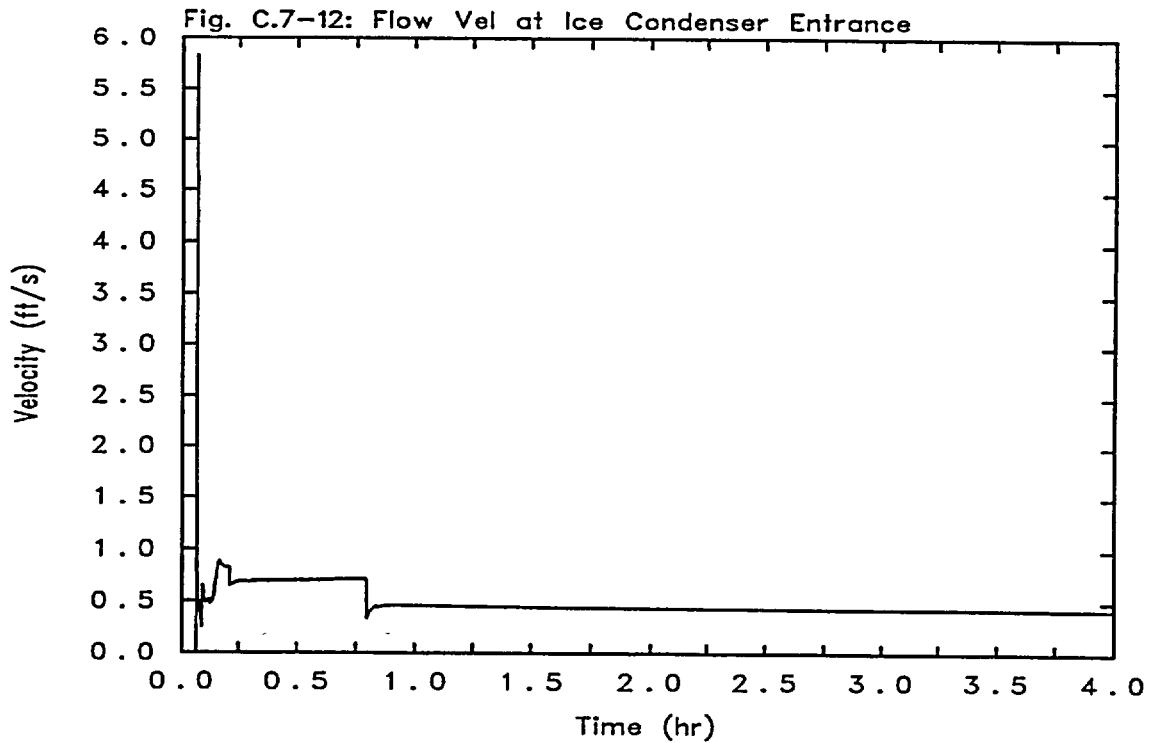
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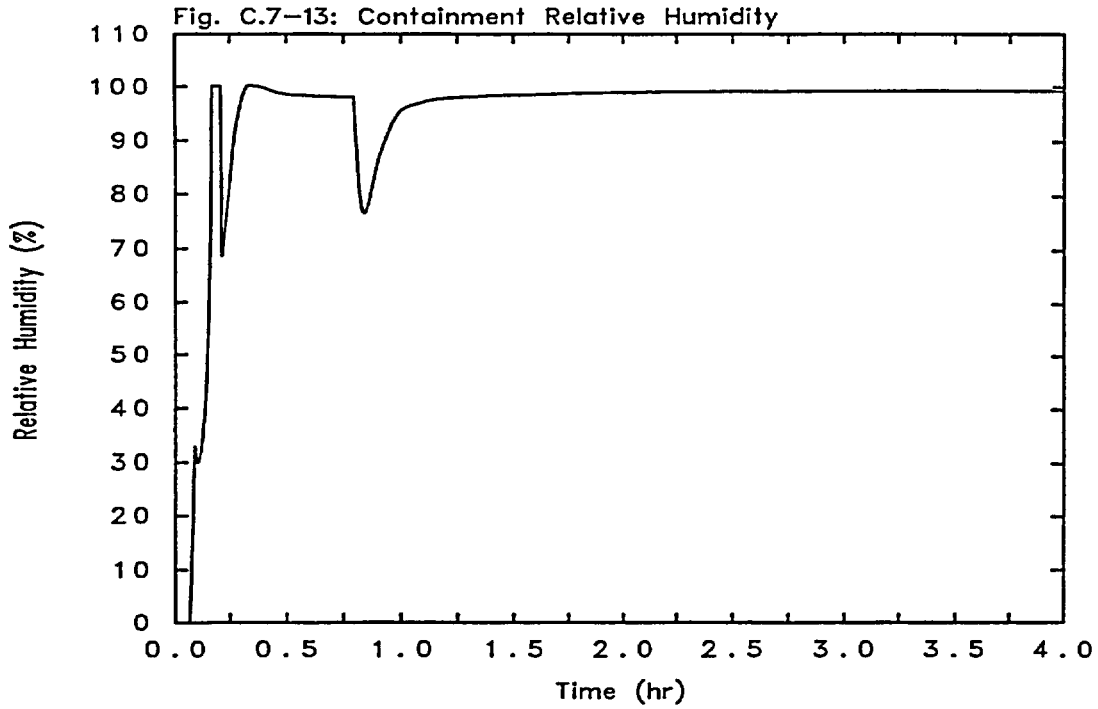
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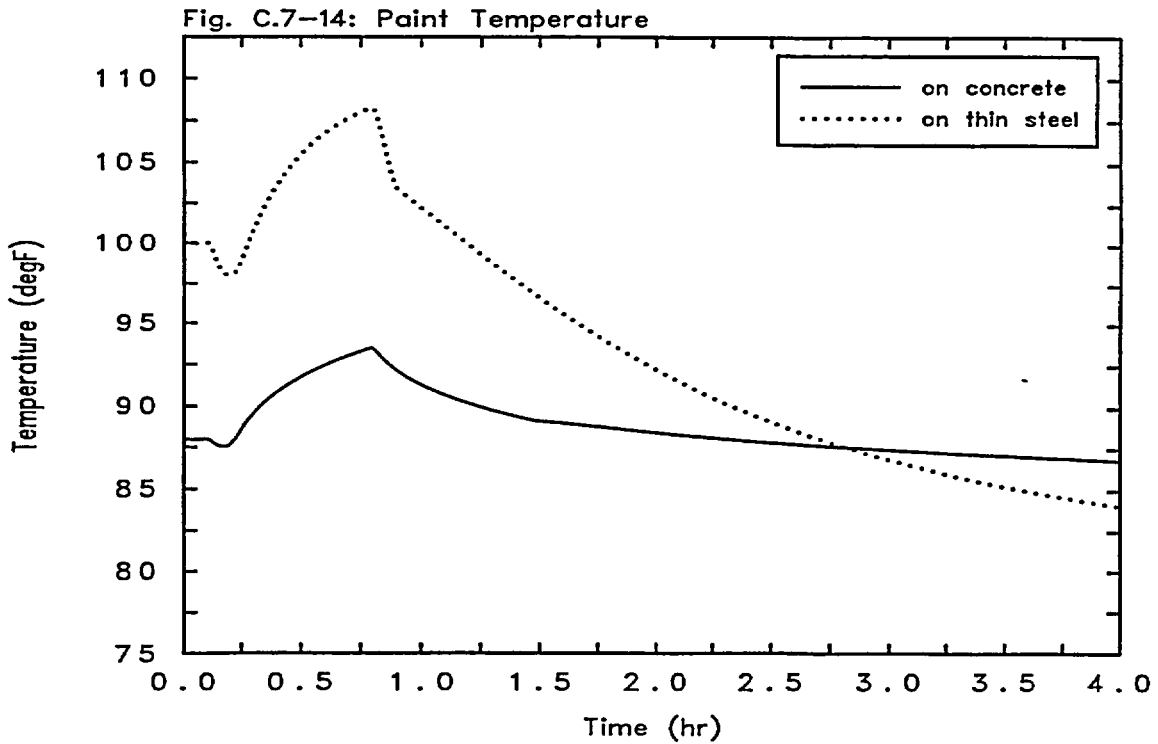
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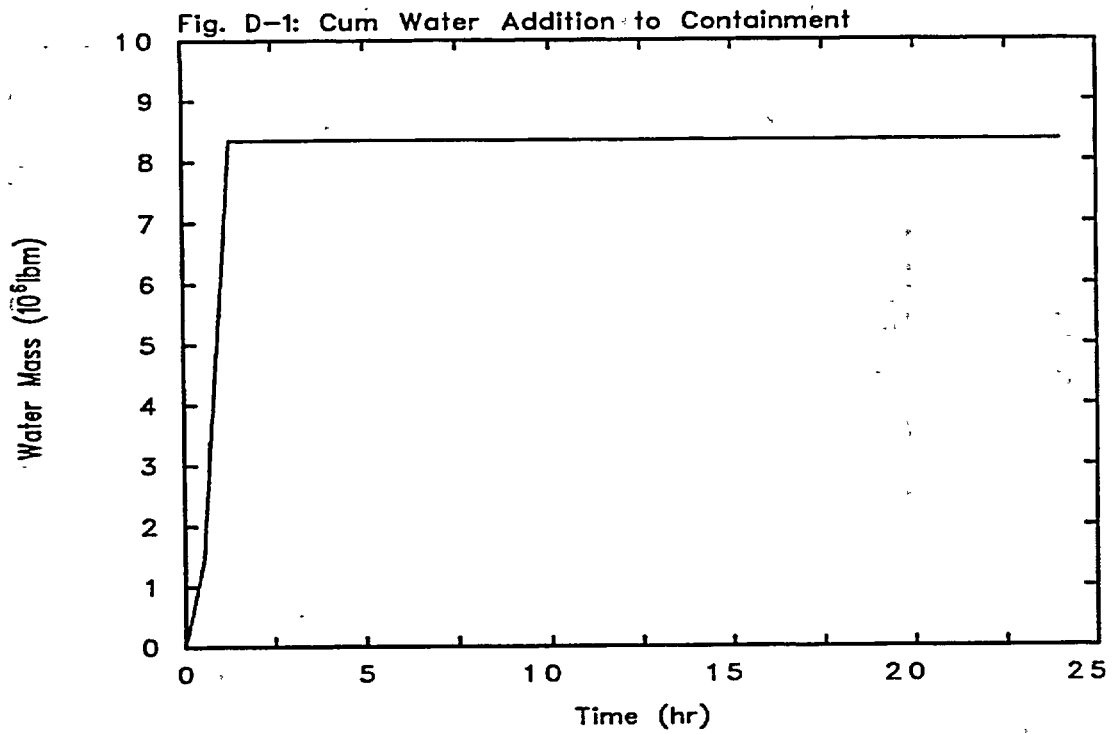


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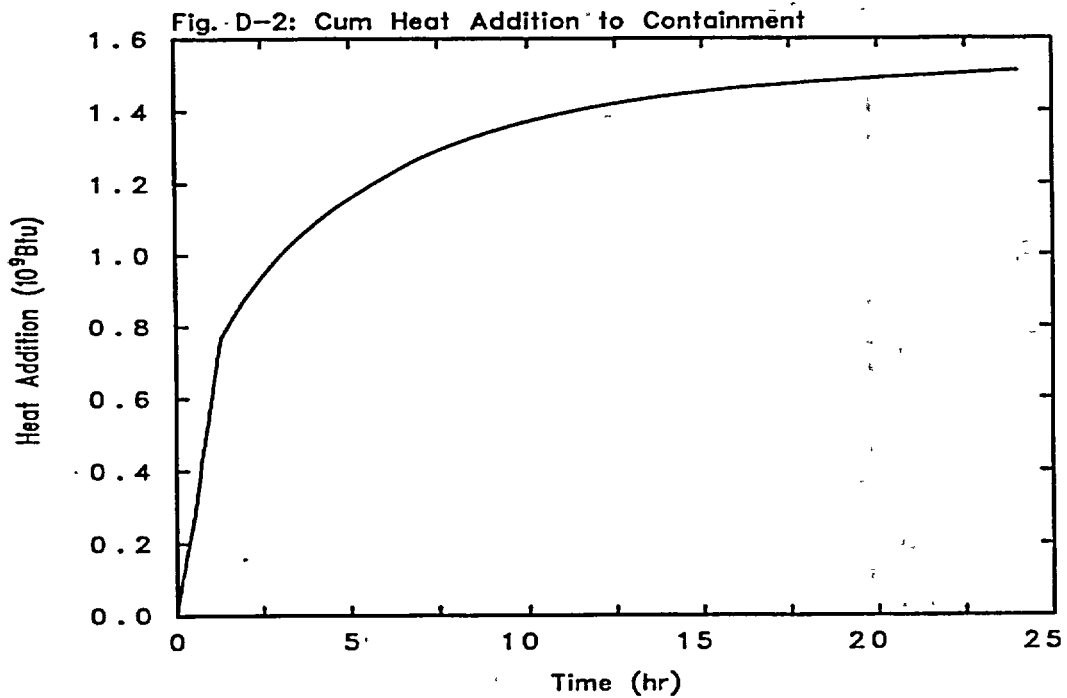
APPENDIX D

**MELCOR PREDICTIONS OF LARGE DRY CONTAINMENT RESPONSE –
SENSITIVITY OF SLOCA RESULTS TO FAN COOLER FAILURE**

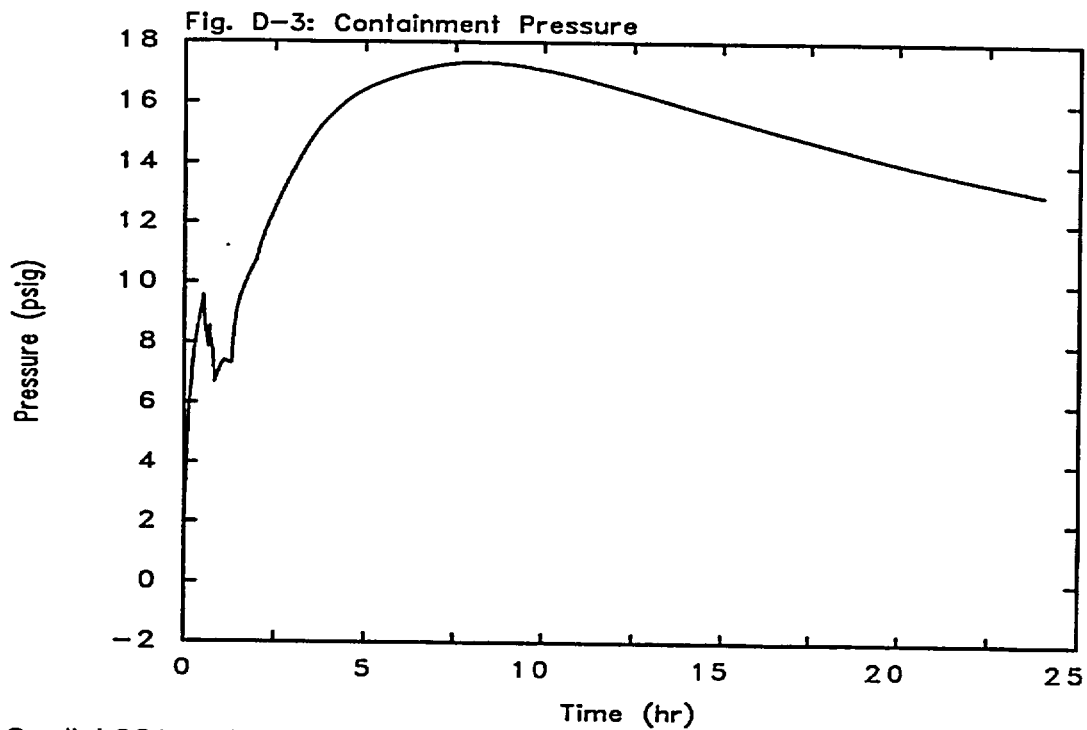
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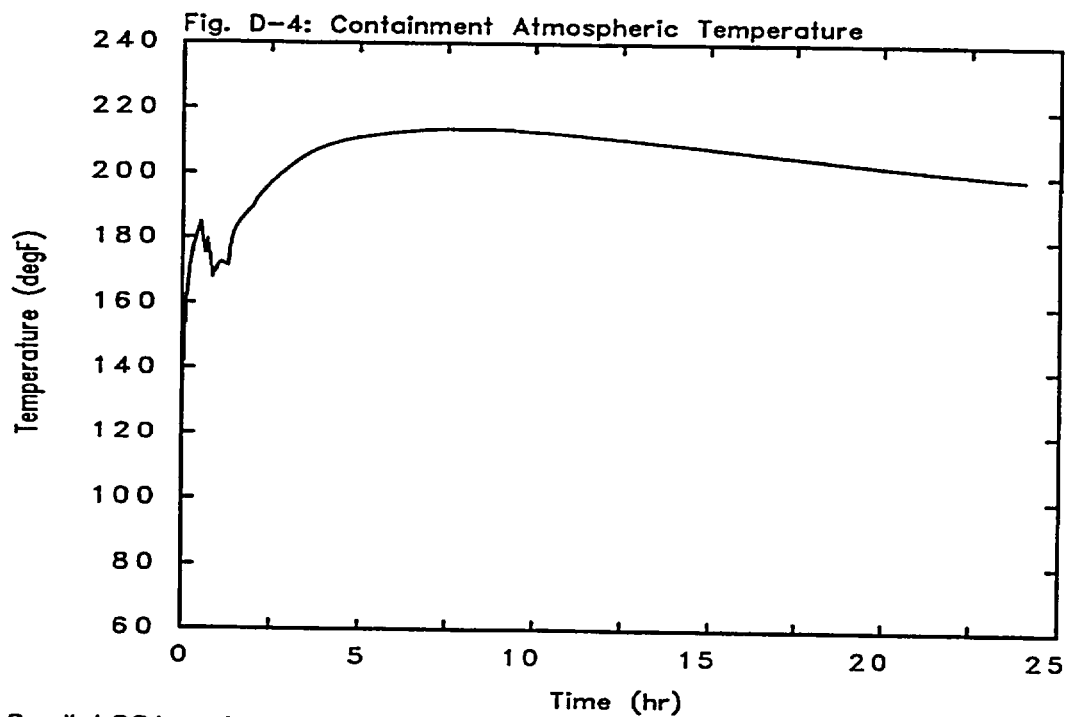
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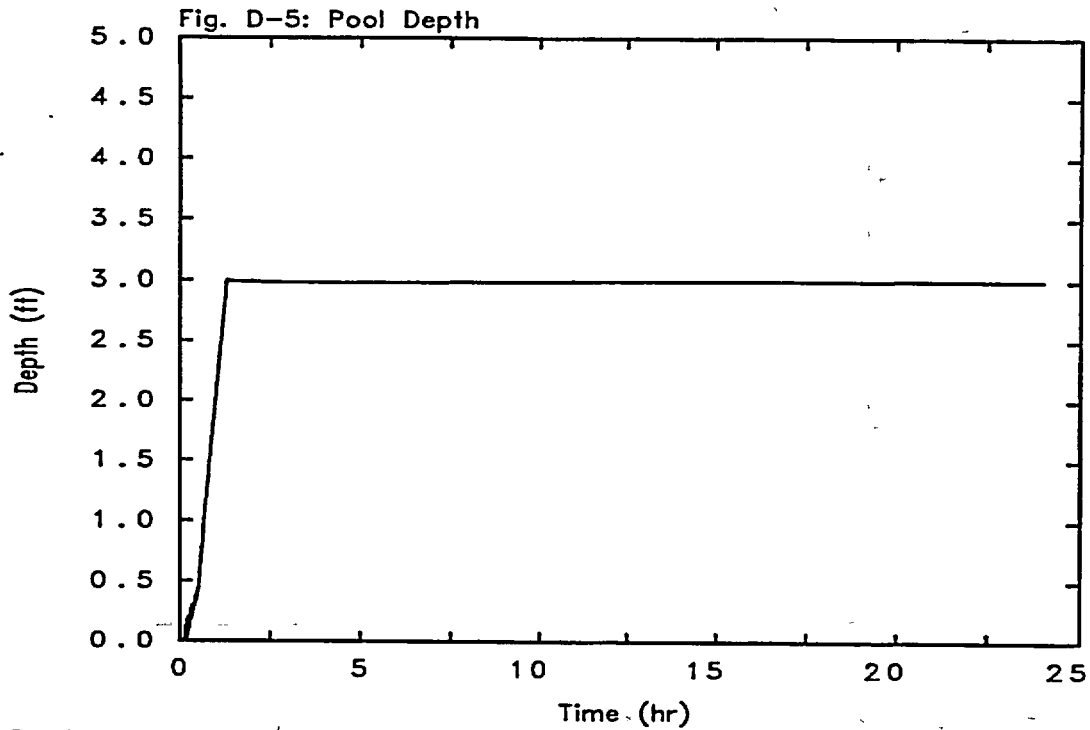
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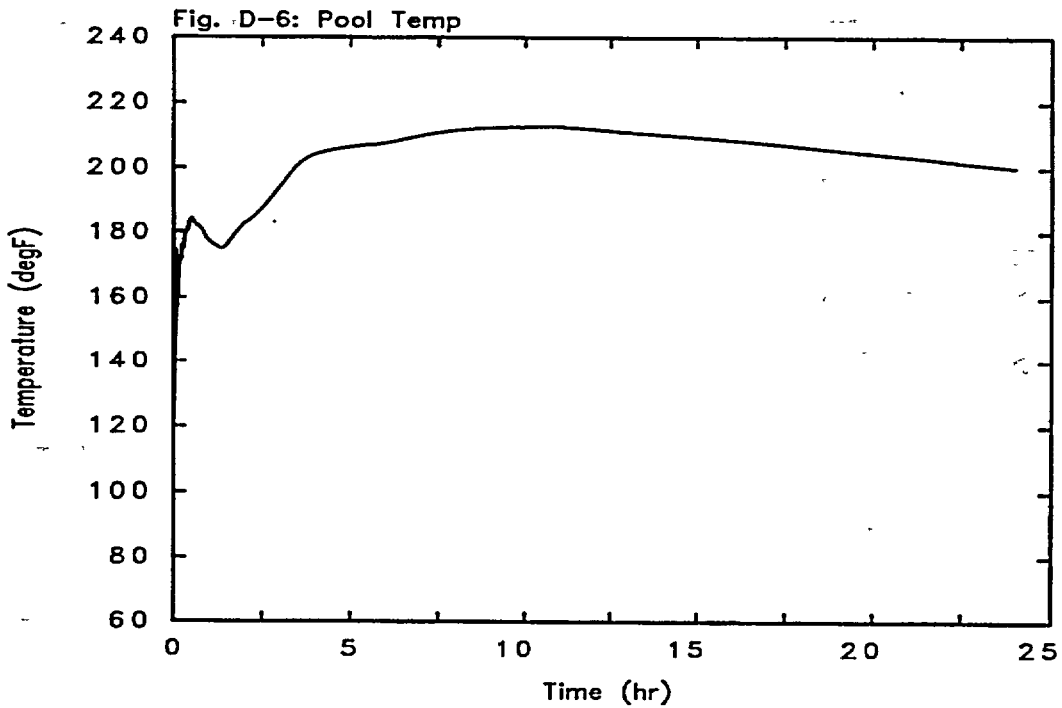
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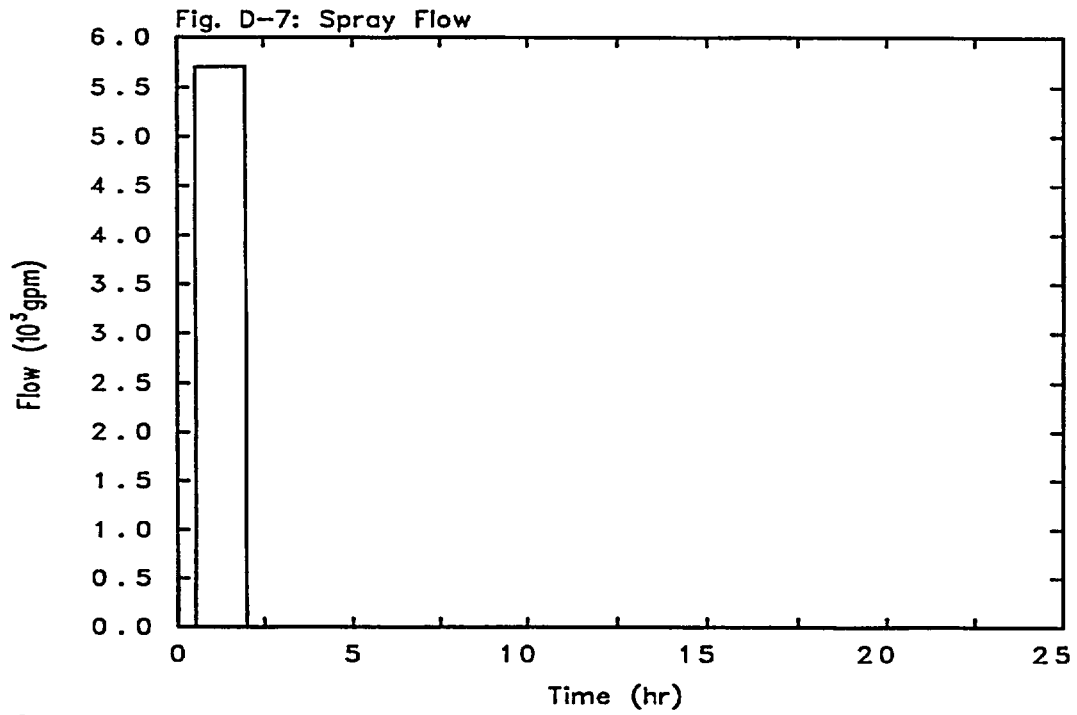
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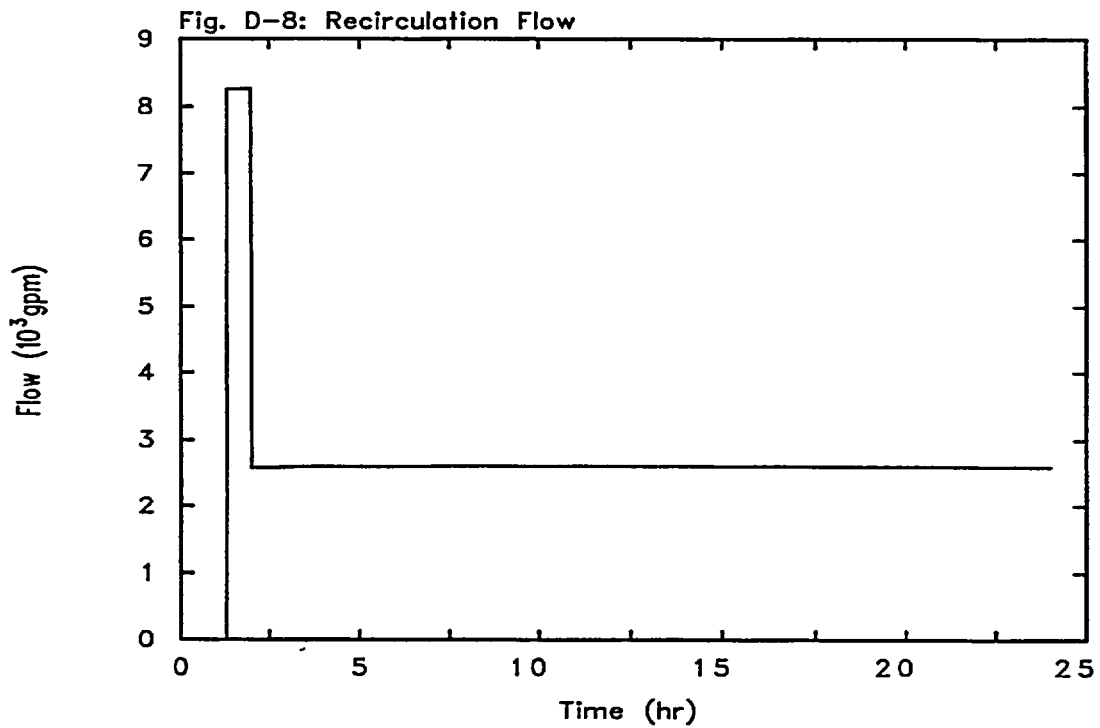
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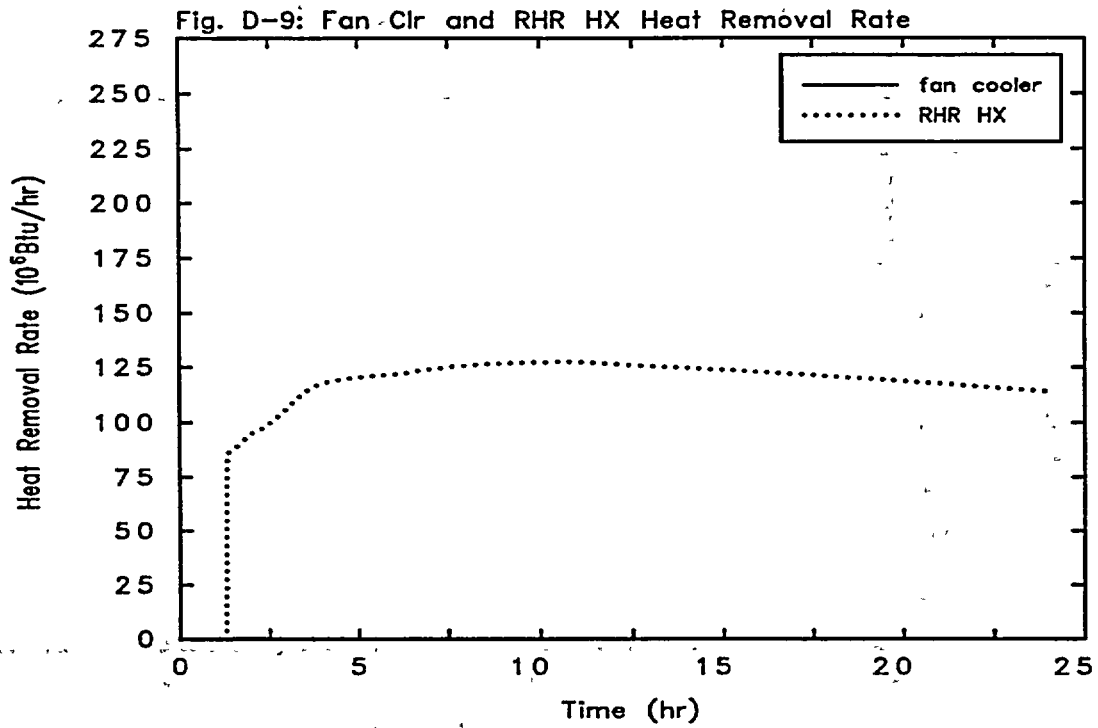
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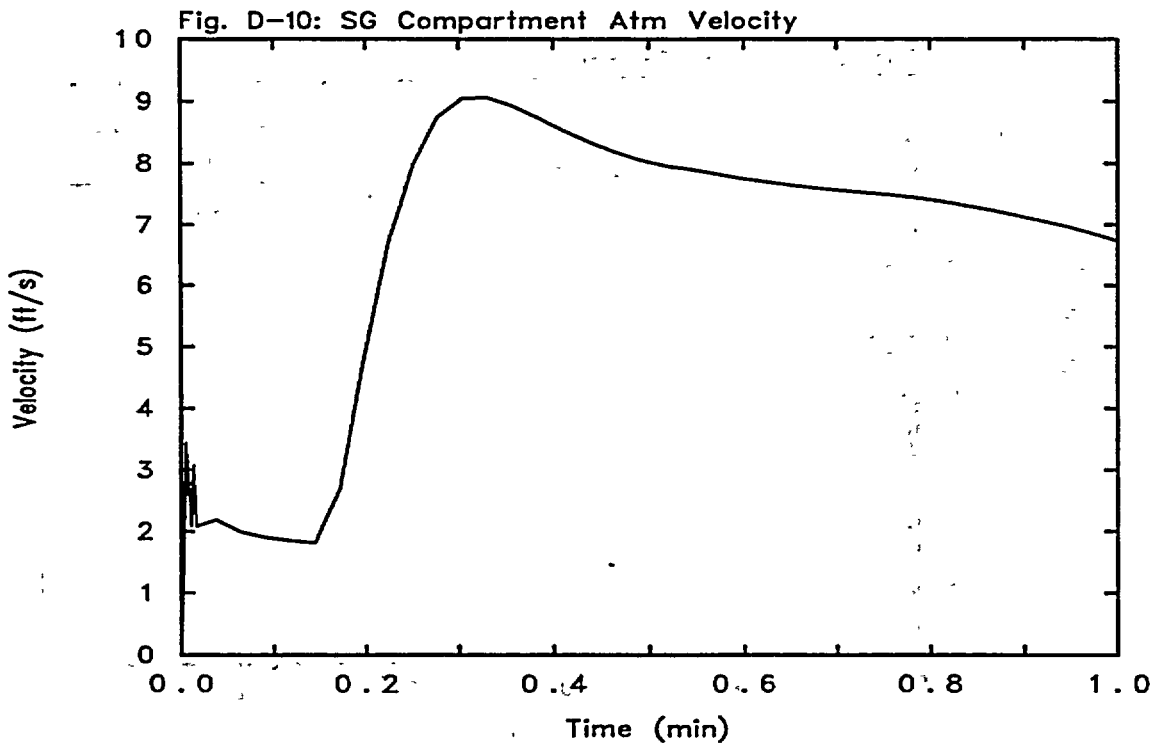
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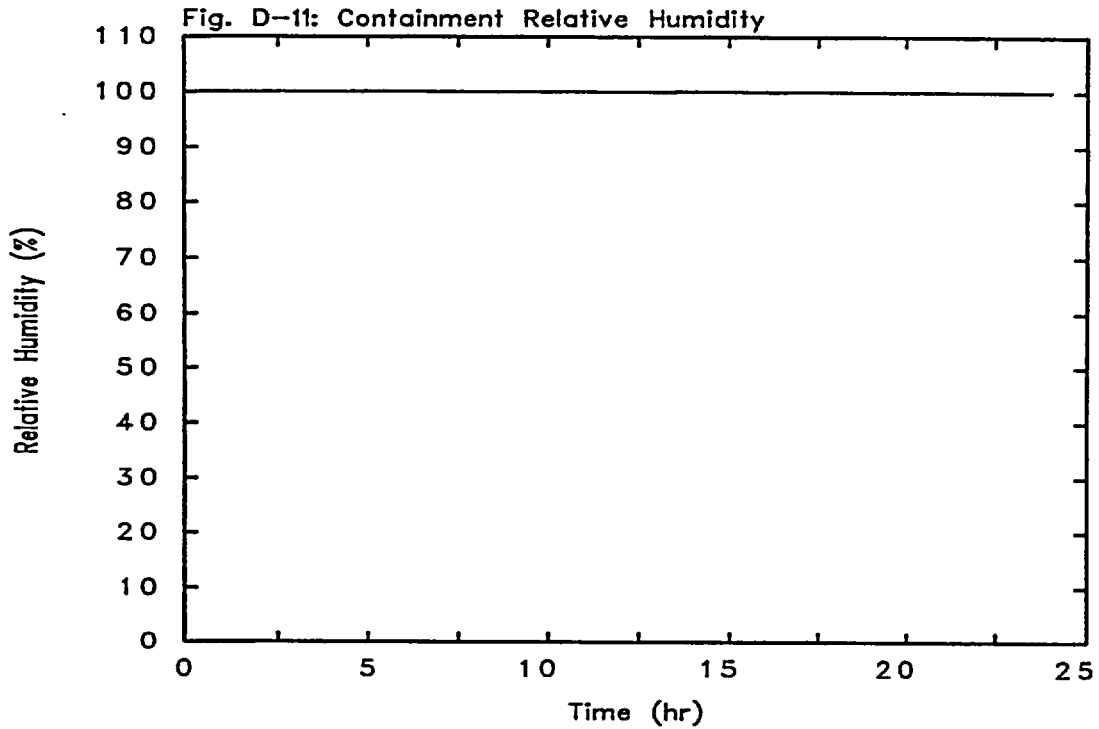
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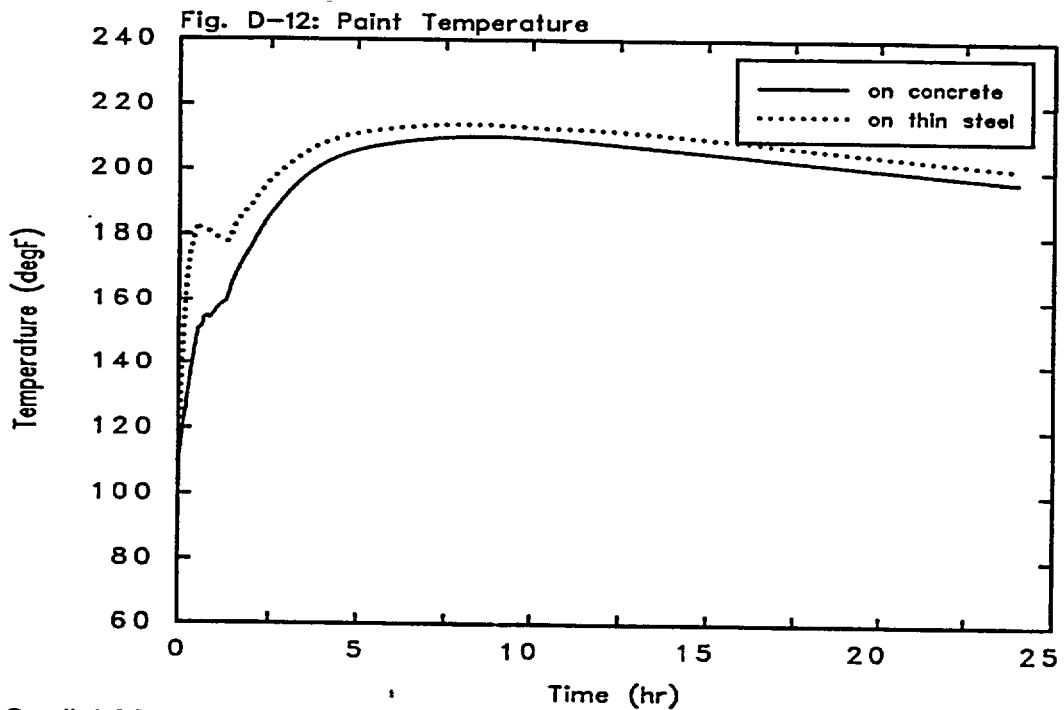
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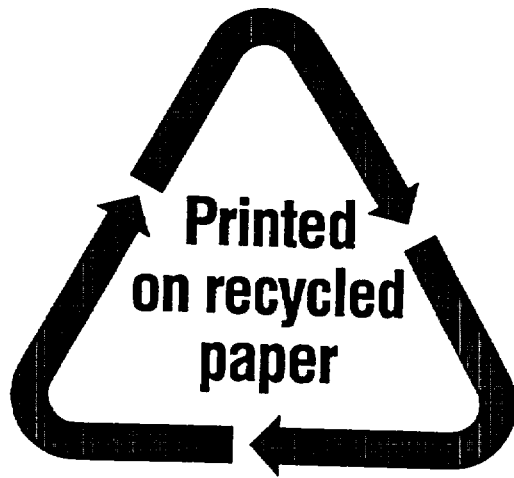


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MONTH		YEAR				
August		2002				
5. AUTHOR(S) D. V. Rao, K. W. Ross (OMICRON, 2500 Louisiana N.E., Suite 310, Albuquerque, NM 87110), and S. G. Ashbaugh	4. FIN OR GRANT NUMBER Y-6041					
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10. SUPPLEMENTARY NOTES M. L. Marshall, NRC Project Manager						
11. ABSTRACT <i>(200 words or less)</i> <p>This report documents the results of calculations performed, as part of the resolution of the Nuclear Regulatory Commission (NRC) Genenc-Safety-Issue (GSI) 191, to simulate reactor coolant system (RCS) and containment thermal-hydraulic response to a number of accidents that could potentially cause insulation debris to be collected on the sump screen. The purpose of the GSI-191 study is to determine if the transport and accumulation of debris in a containment following a loss-of-coolant accident (LOCA) will impede the operation of the ECCS in operating PWRs. In the event of a LOCA within the containment of a PWR, thermal insulation and other materials in the vicinity of the break will be damaged and dislodged. A fraction of this material would be transported to the recirculation (or emergency) sump and accumulate on the screen thereby forming a debris bed. Excessive head loss across this bed could prevent or impede the flow of water into the core or containment.</p> <p>The calculations were performed using the NRC-approved computer codes RELAP5 and MELCOR. These calculations identified important RCS and containment thermal-hydraulic parameters that influence the generation and/or transport of debris in PWR containments. The calculations determined the time-dependent system response parameters. The system responses were used to construct accident progression sequences that form the basis for strainer blockage evaluations and probabilistic risk evaluations.</p>						
12. KEY WORDS/DESCRIPTORS <i>(List words or phrases that will assist researchers in locating this report.)</i> Accident Analysis, Loss of Coolant Accidents, RELAP Analysis, Thermal Hydraulics, Containment Response, ECCS Performance	13. AVAILABILITY STATEMENT unlimited					
	14. SECURITY CLASSIFICATION <i>(This Page)</i> unclassified					
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