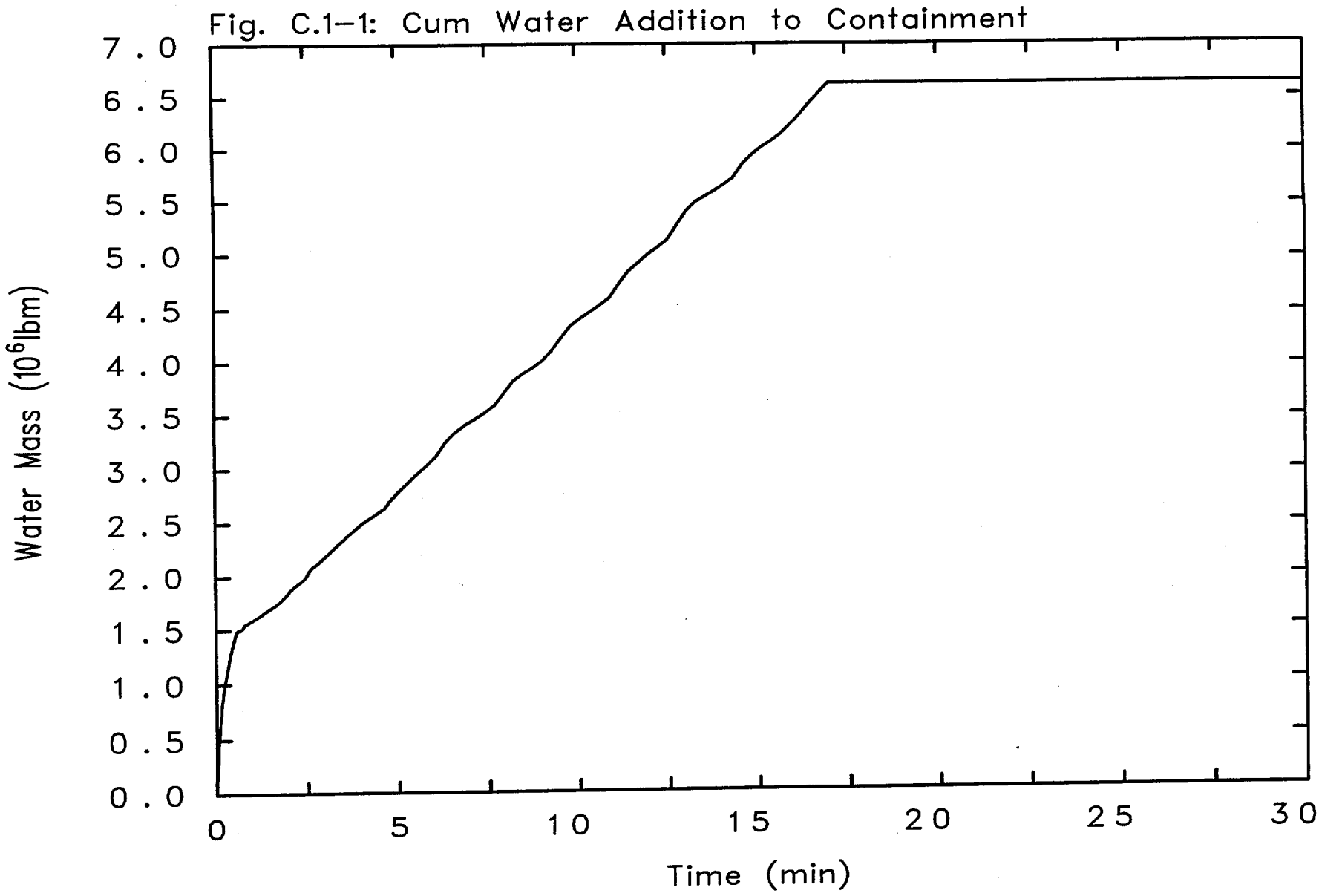
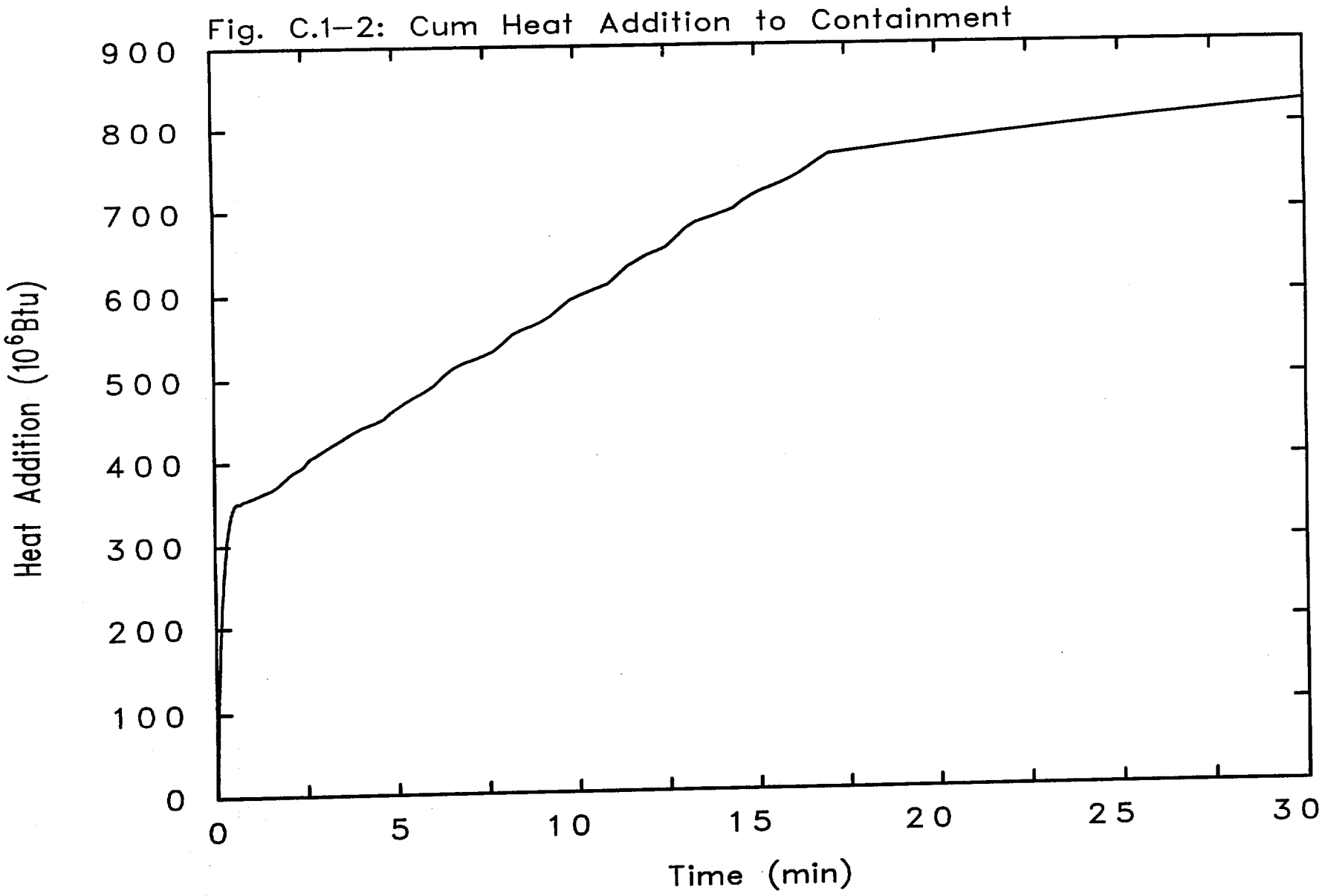
APPENDIX C
MELCOR PREDICTIONS OF ICE-CONDENSER CONTAINMENT RESPONSE

Fig. C.1–1: Cum Water Addition to Containment



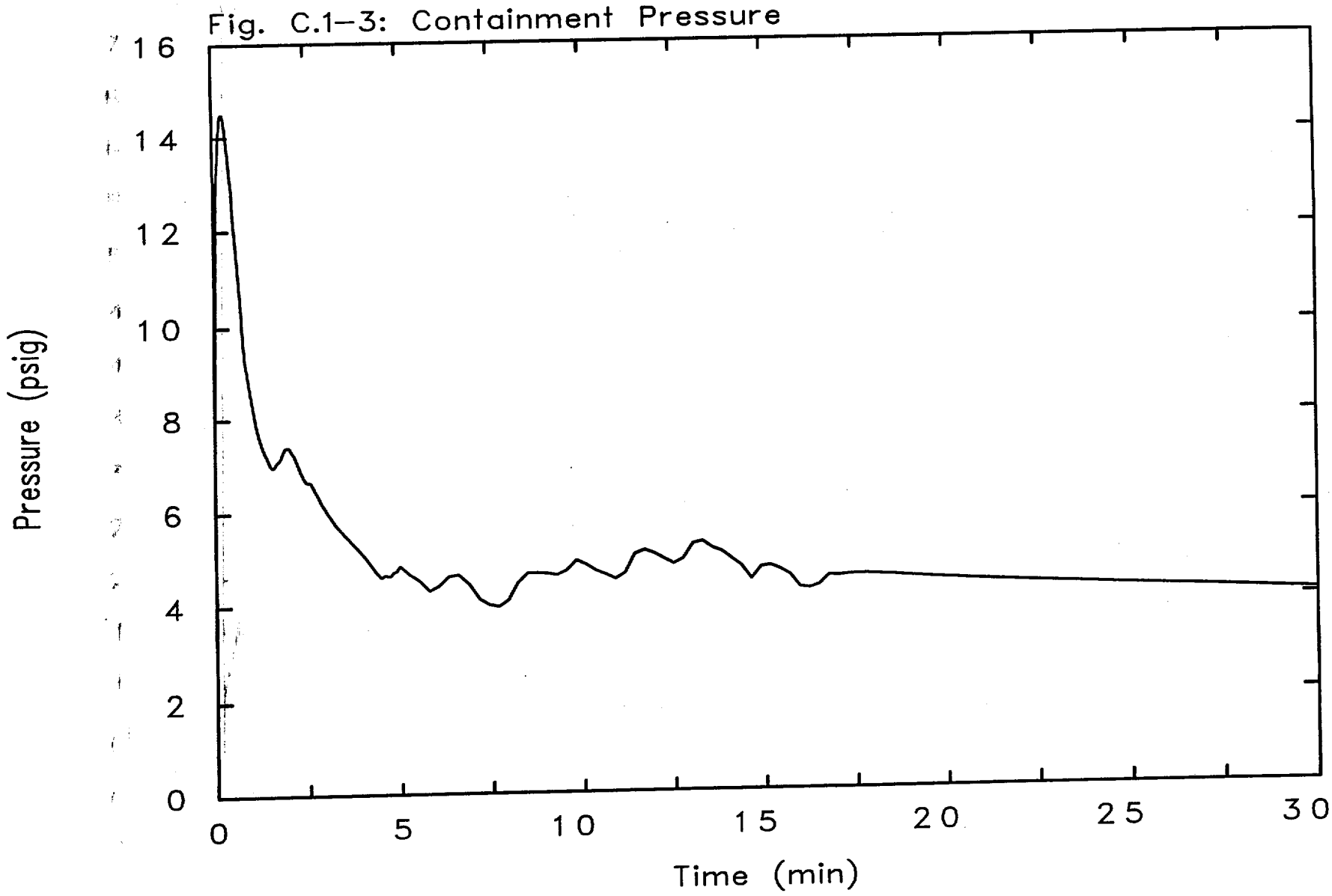
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CFVALU.538

Fig. C.1–2: Cum Heat Addition to Containment



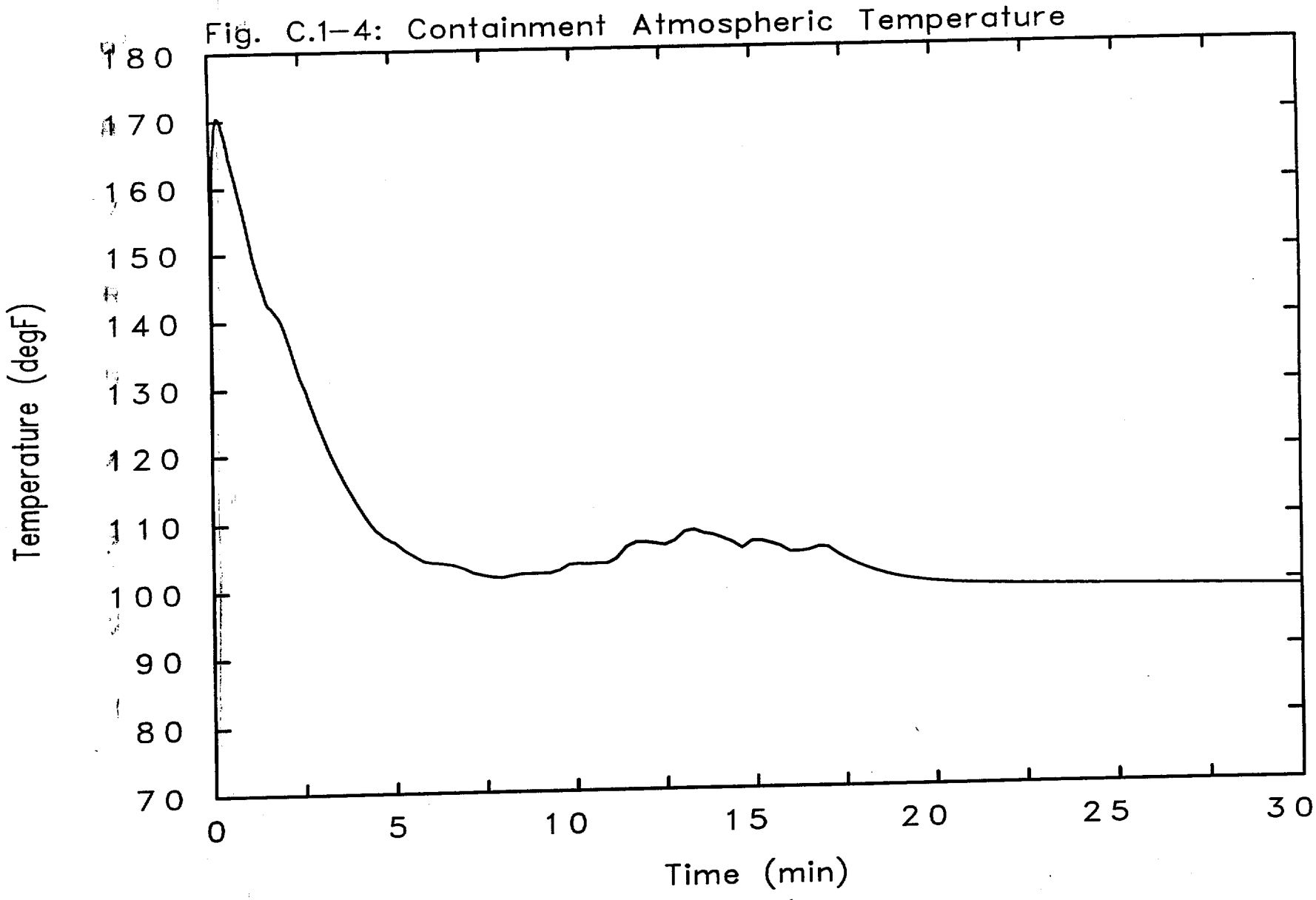
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CFVALU.546

Fig. C.1-3: Containment Pressure



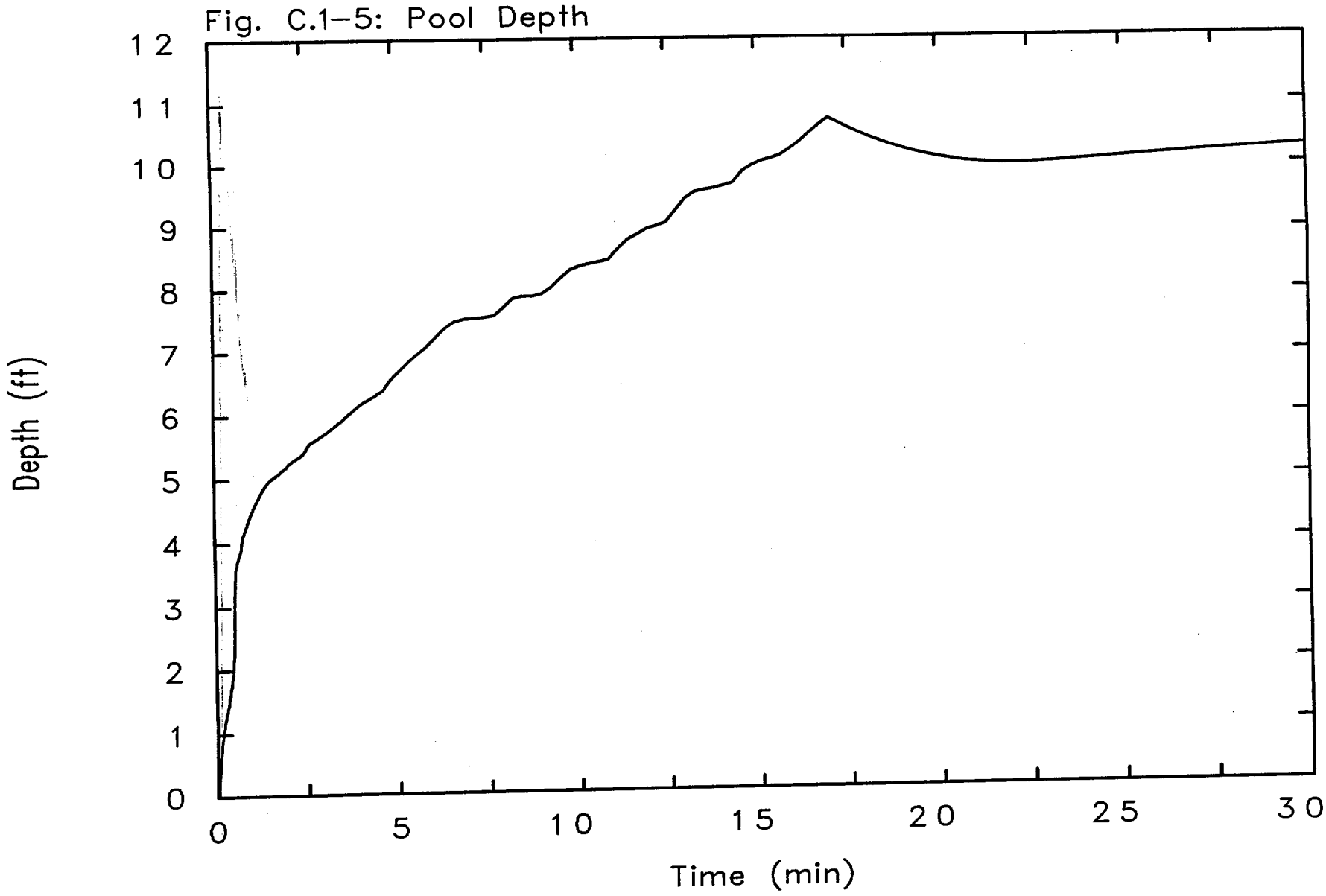
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CVH-P.070

Fig. C.1–4: Containment Atmospheric Temperature



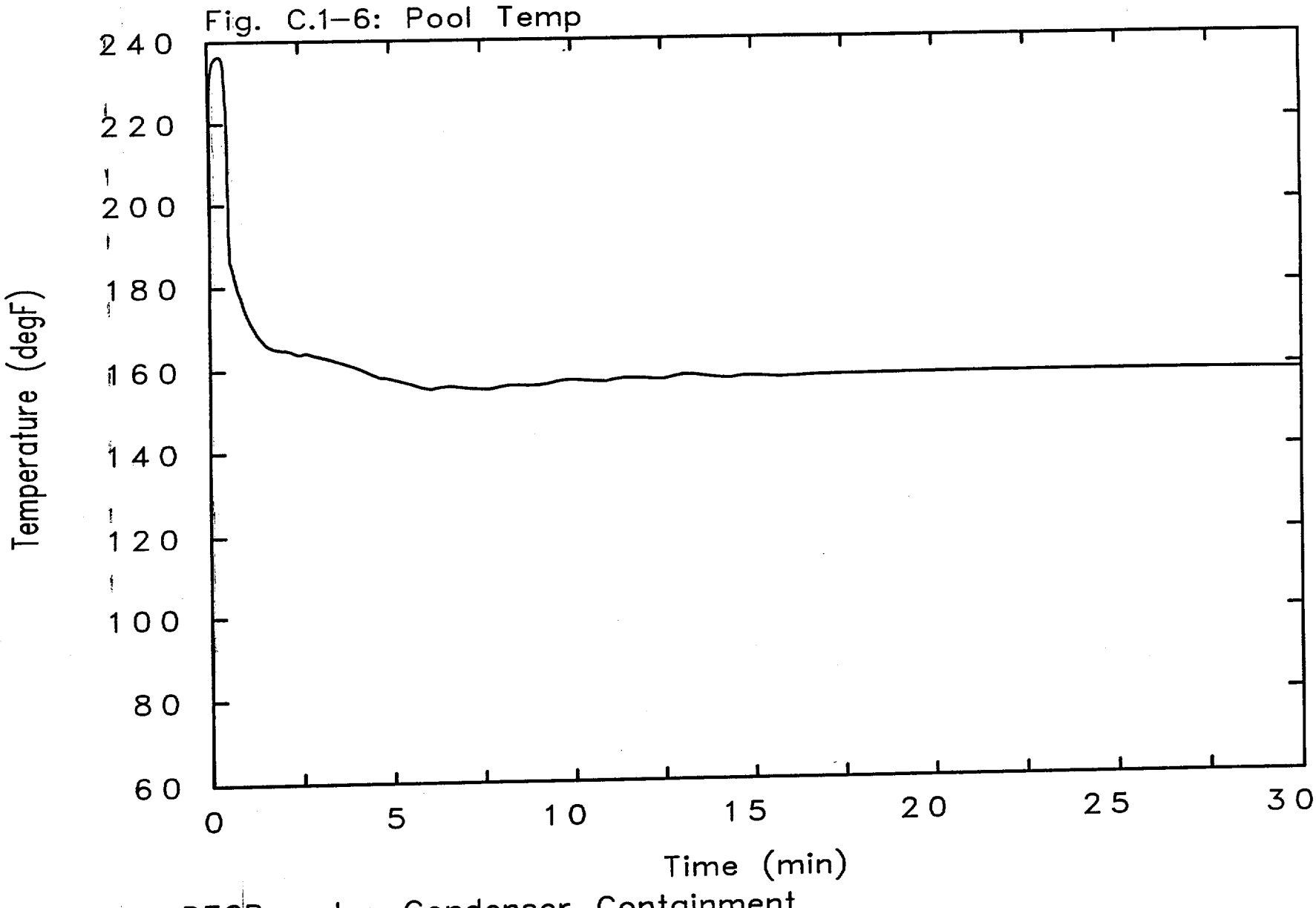
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CVH–TVAP.070

Fig. C.1-5: Pool Depth



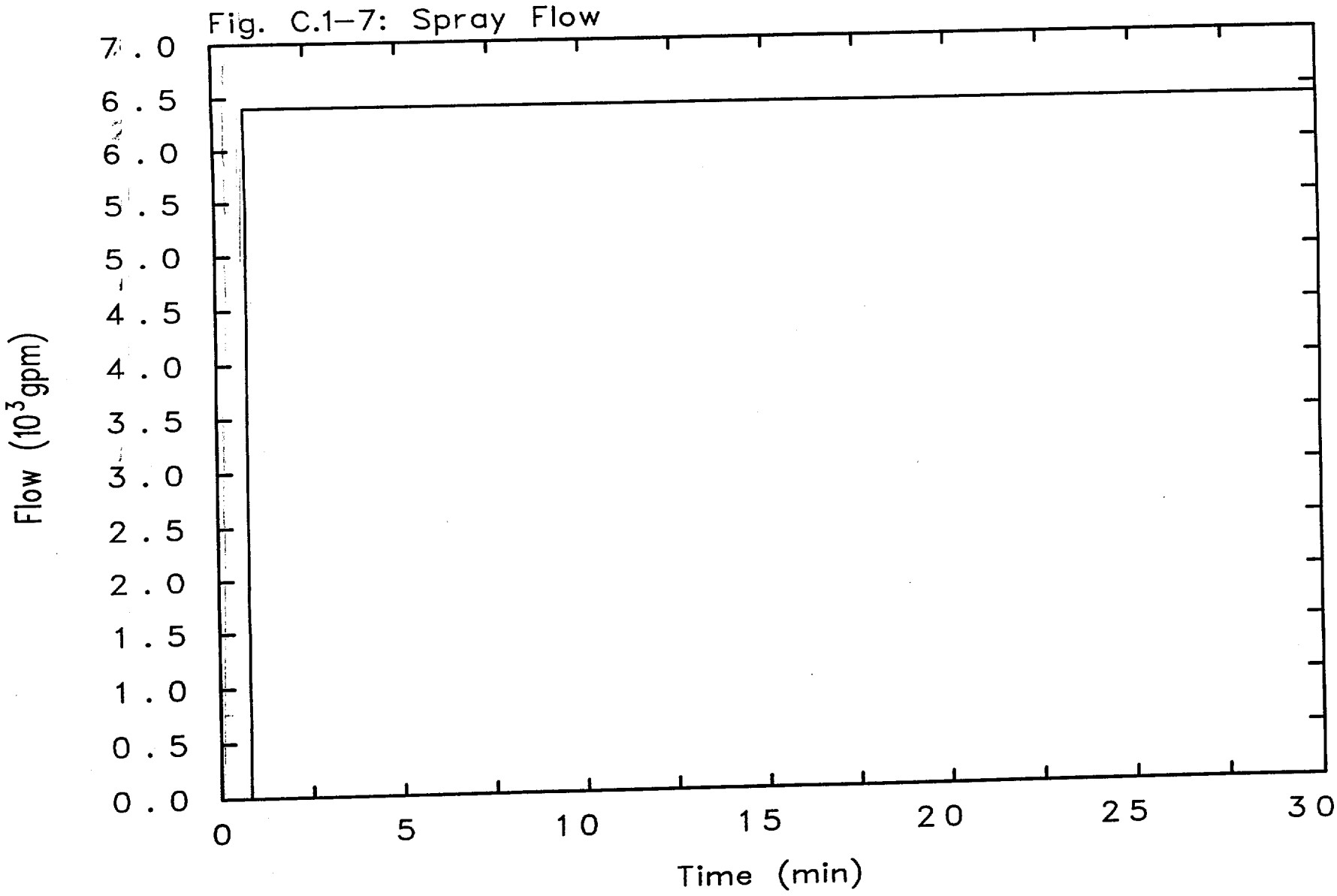
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CVH-LIQLEV.020

Fig. C.1–6: Pool Temp



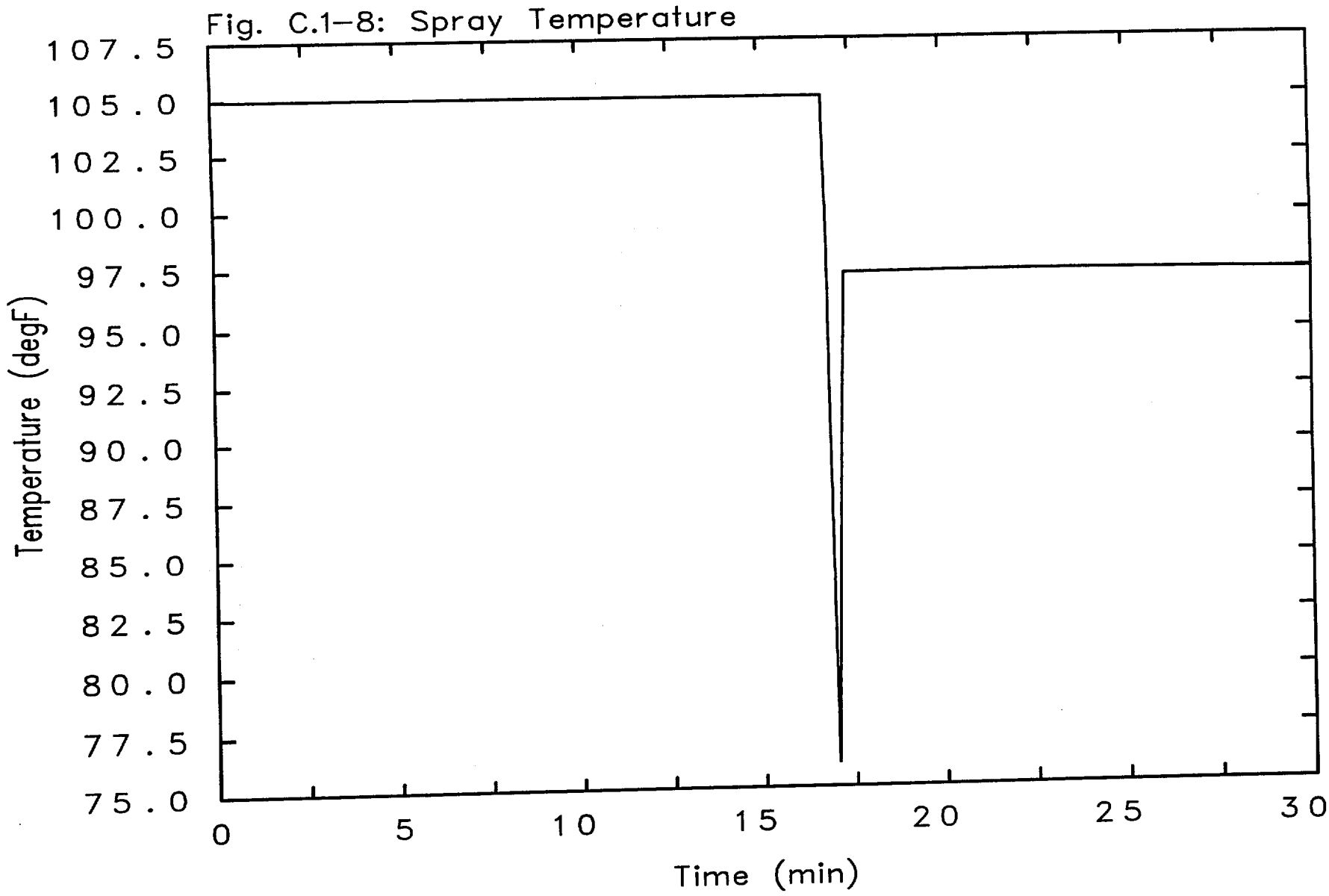
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CVH–TLIQ.020

Fig. C.1–7: Spray Flow



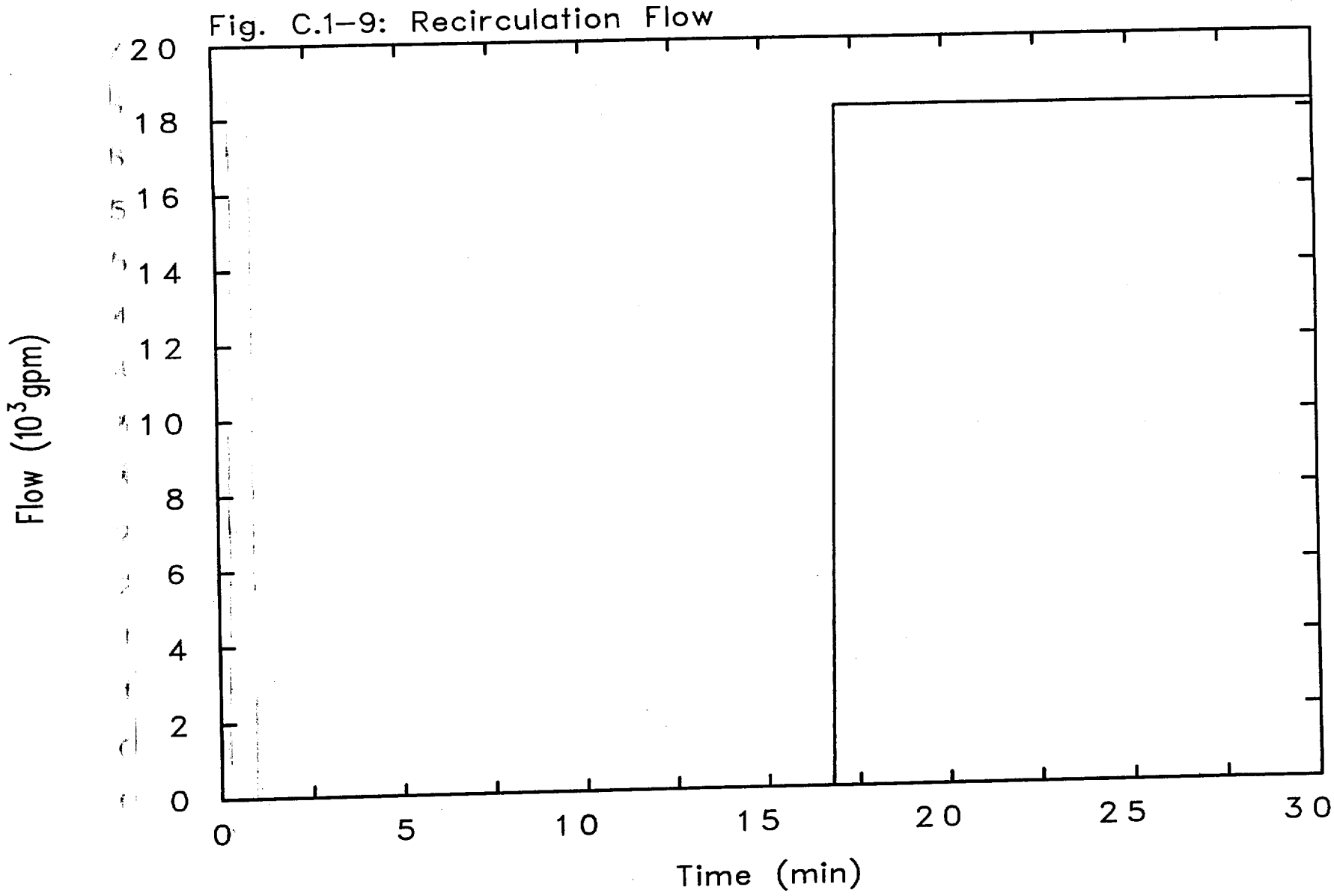
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CFVALU.300

Fig. C.1–8: Spray Temperature



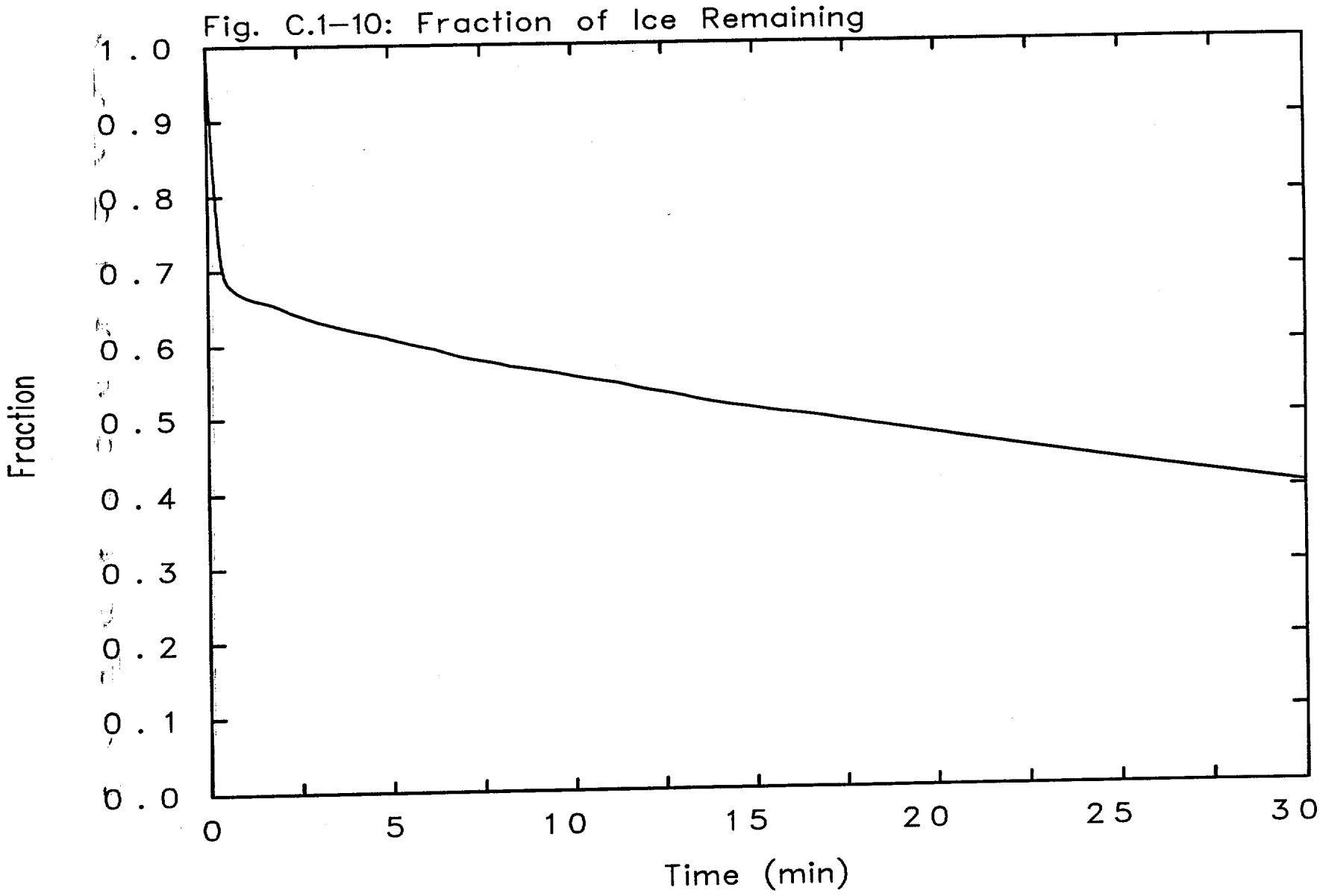
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CFVALU.304

Fig. C.1–9: Recirculation Flow



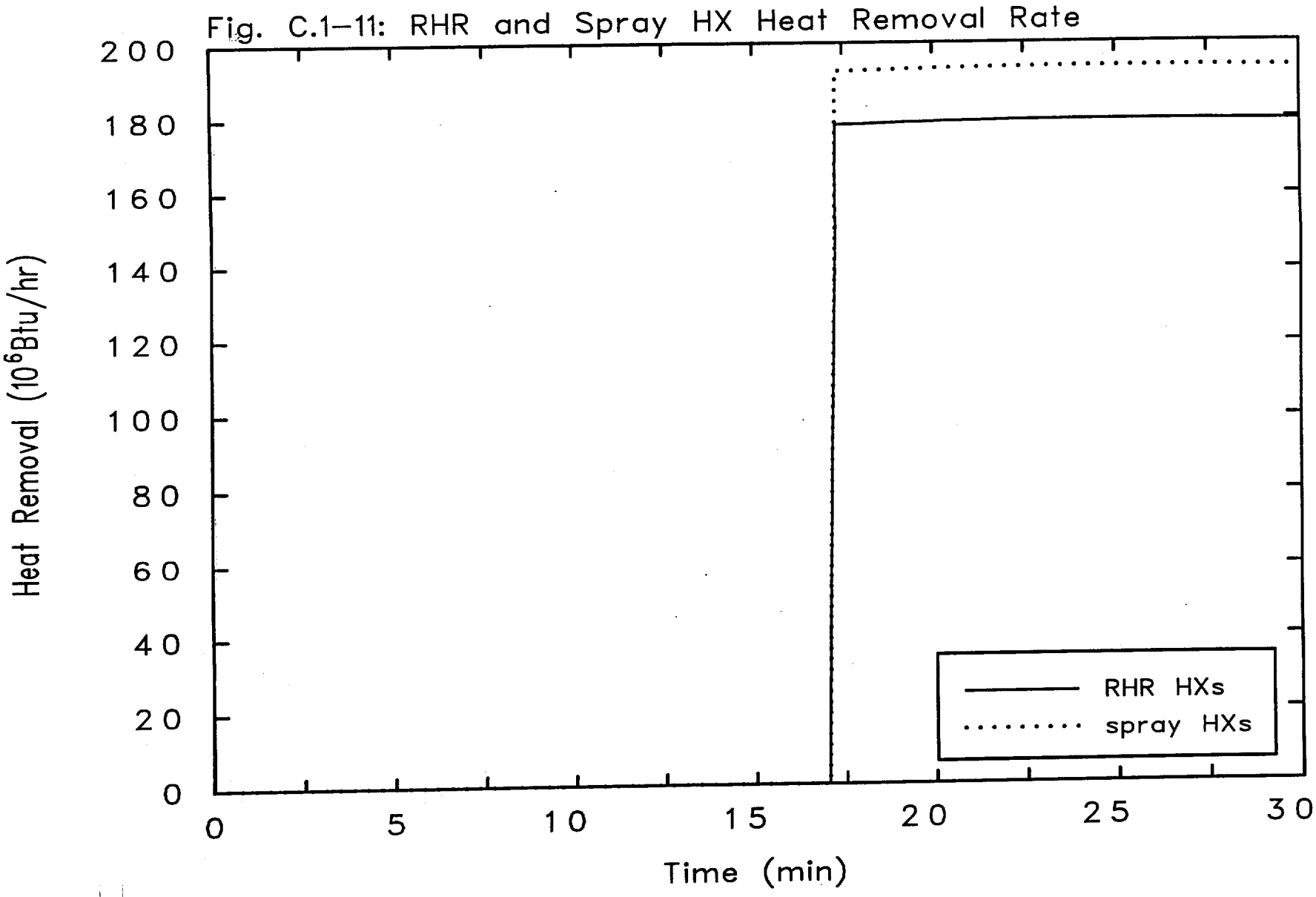
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CFVALU.542

Fig. C.1–10: Fraction of Ice Remaining



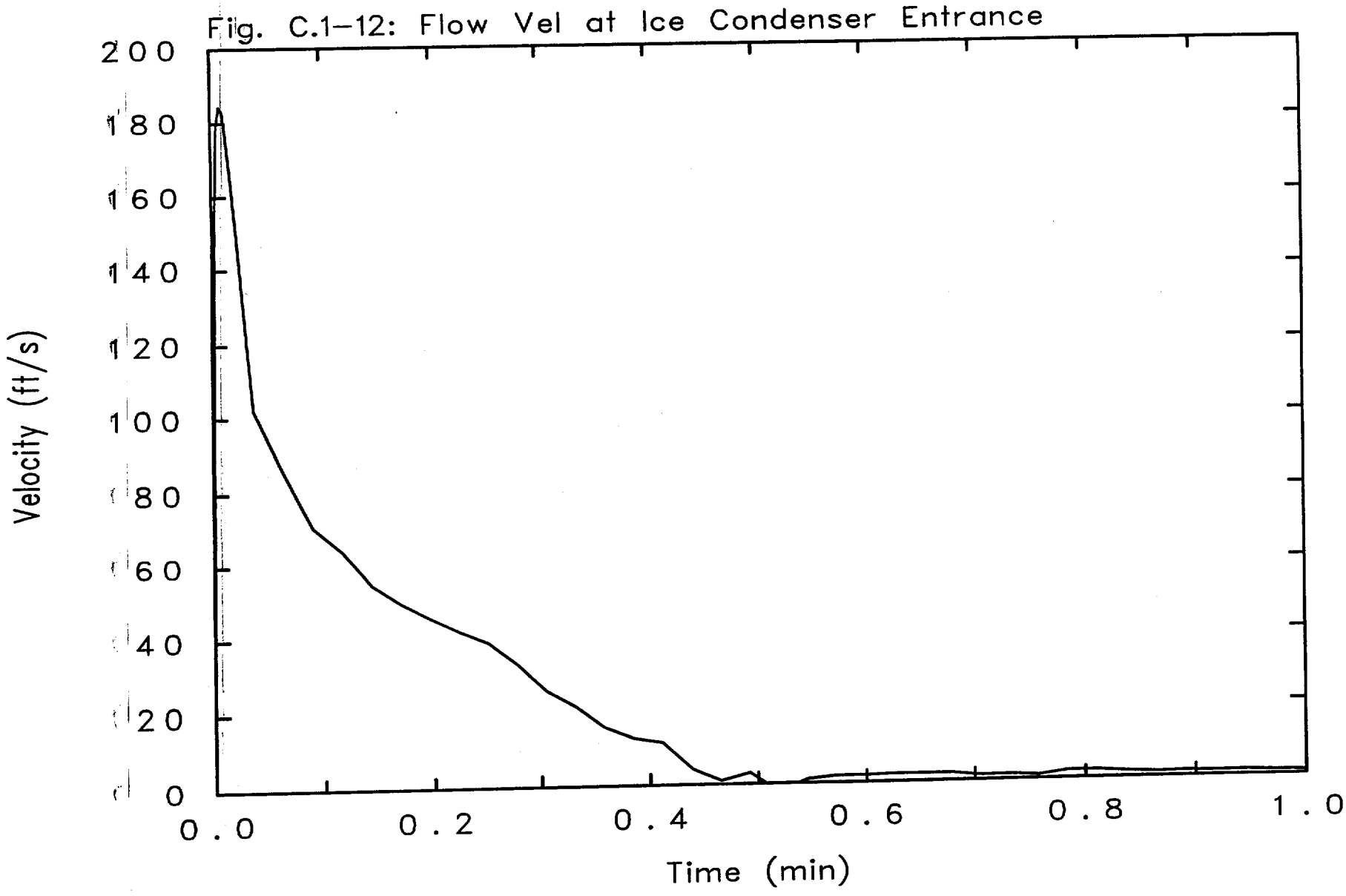
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CFVALU.262

Fig. C.1–11: RHR and Spray HX Heat Removal Rate



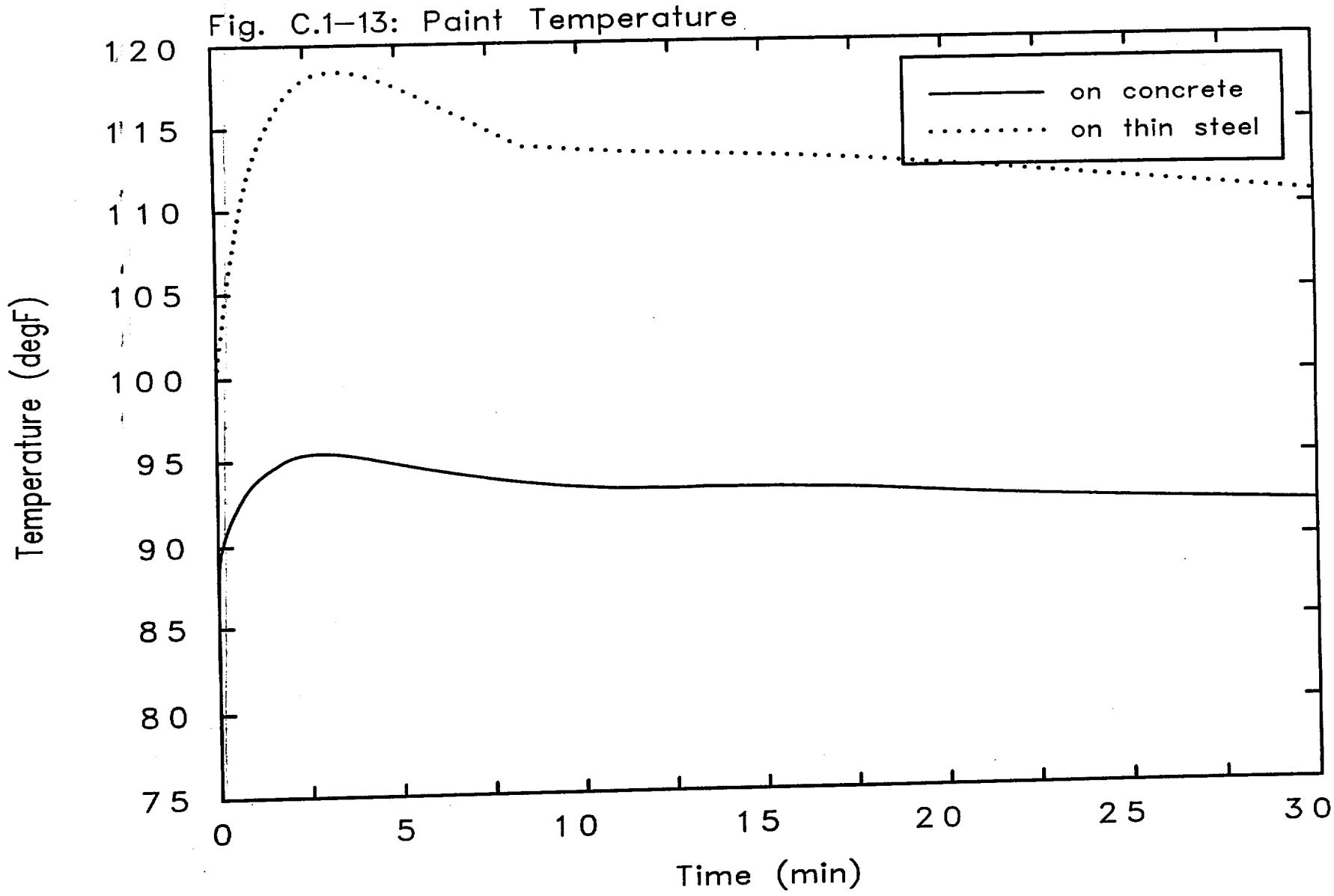
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC

Fig. C.1-12: Flow Vel at Ice Condenser Entrance



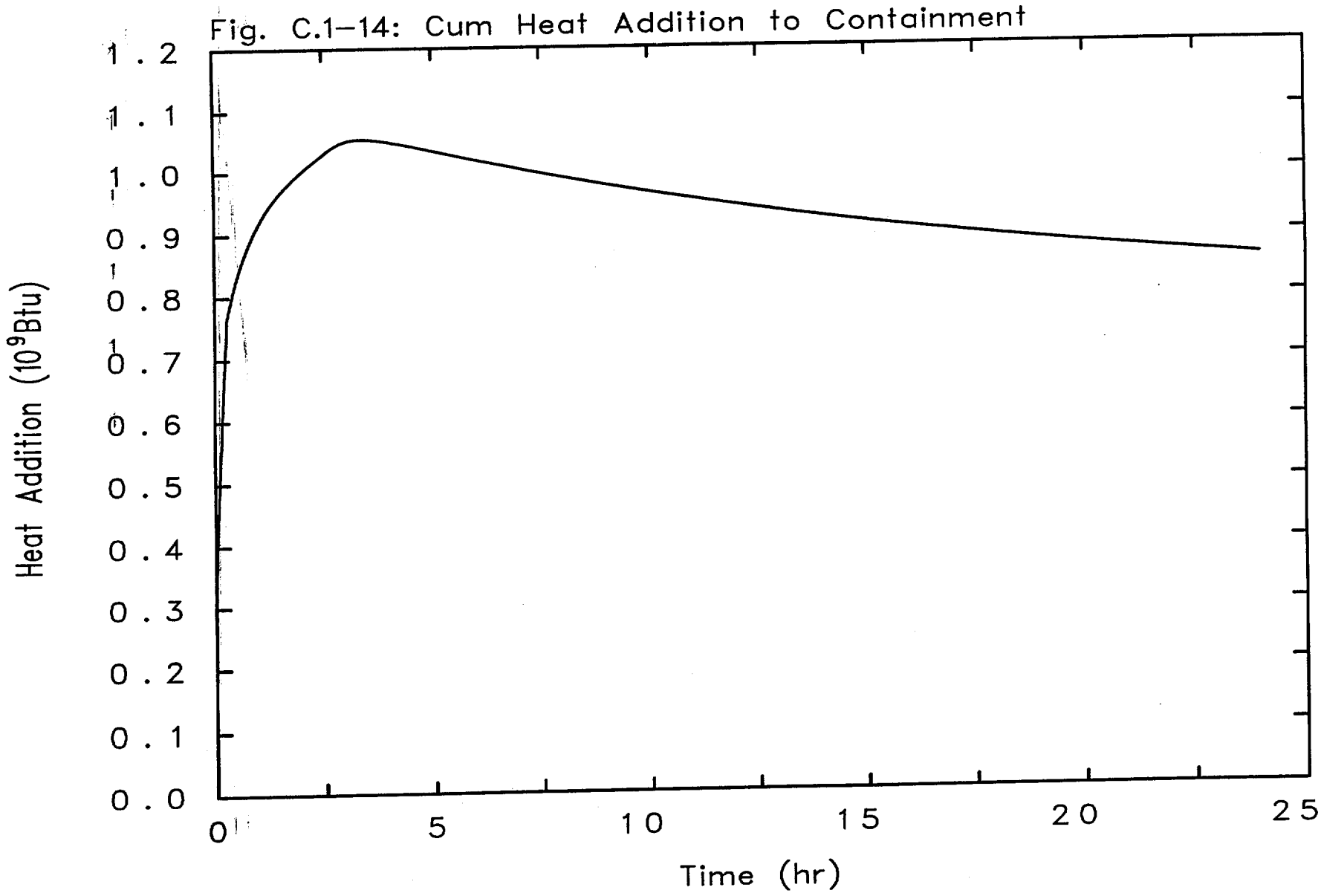
Cold Leg DEGB - Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
FL-VELVAP.004

Fig. C.1–13: Paint Temperature



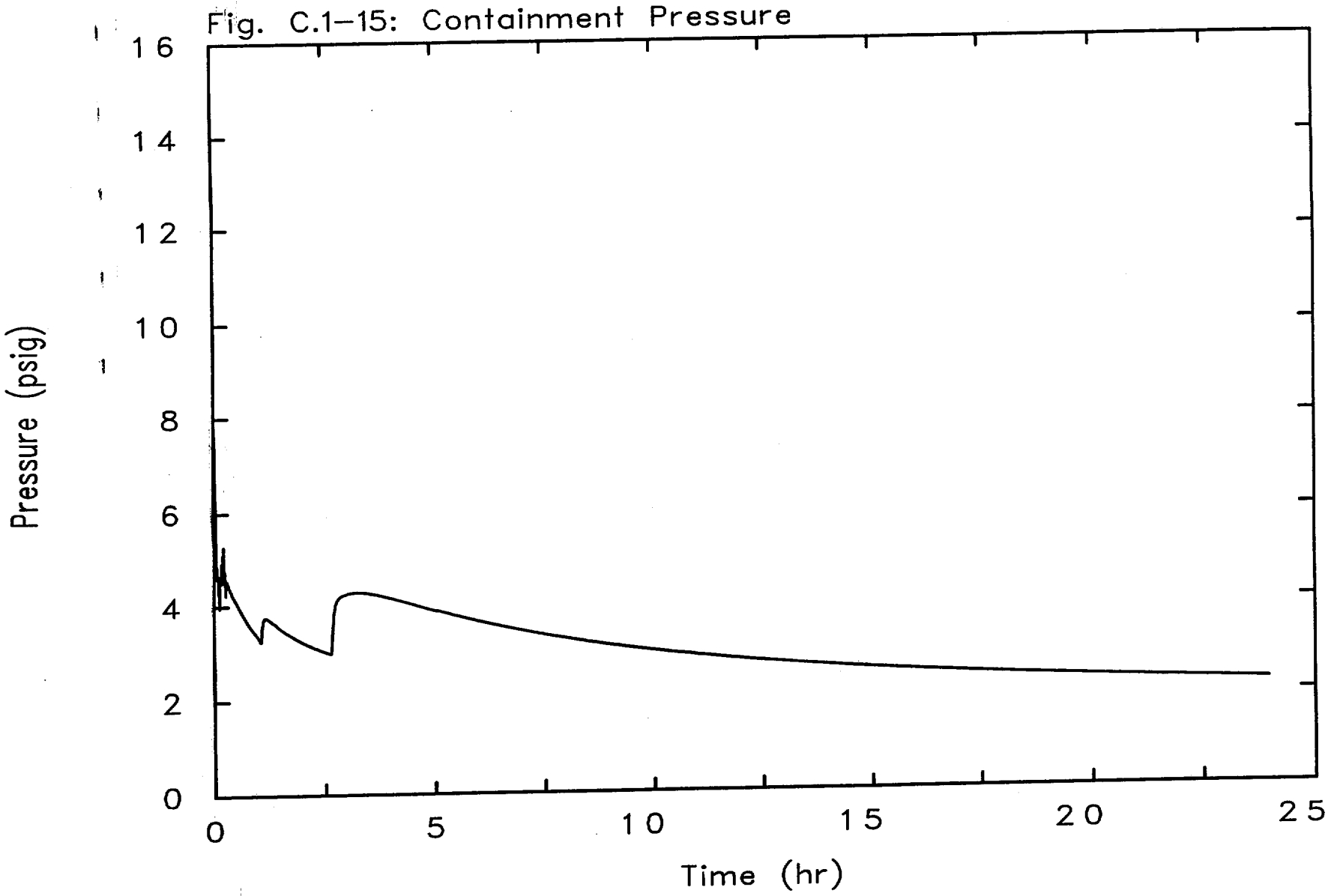
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC

Fig. C.1–14: Cum Heat Addition to Containment



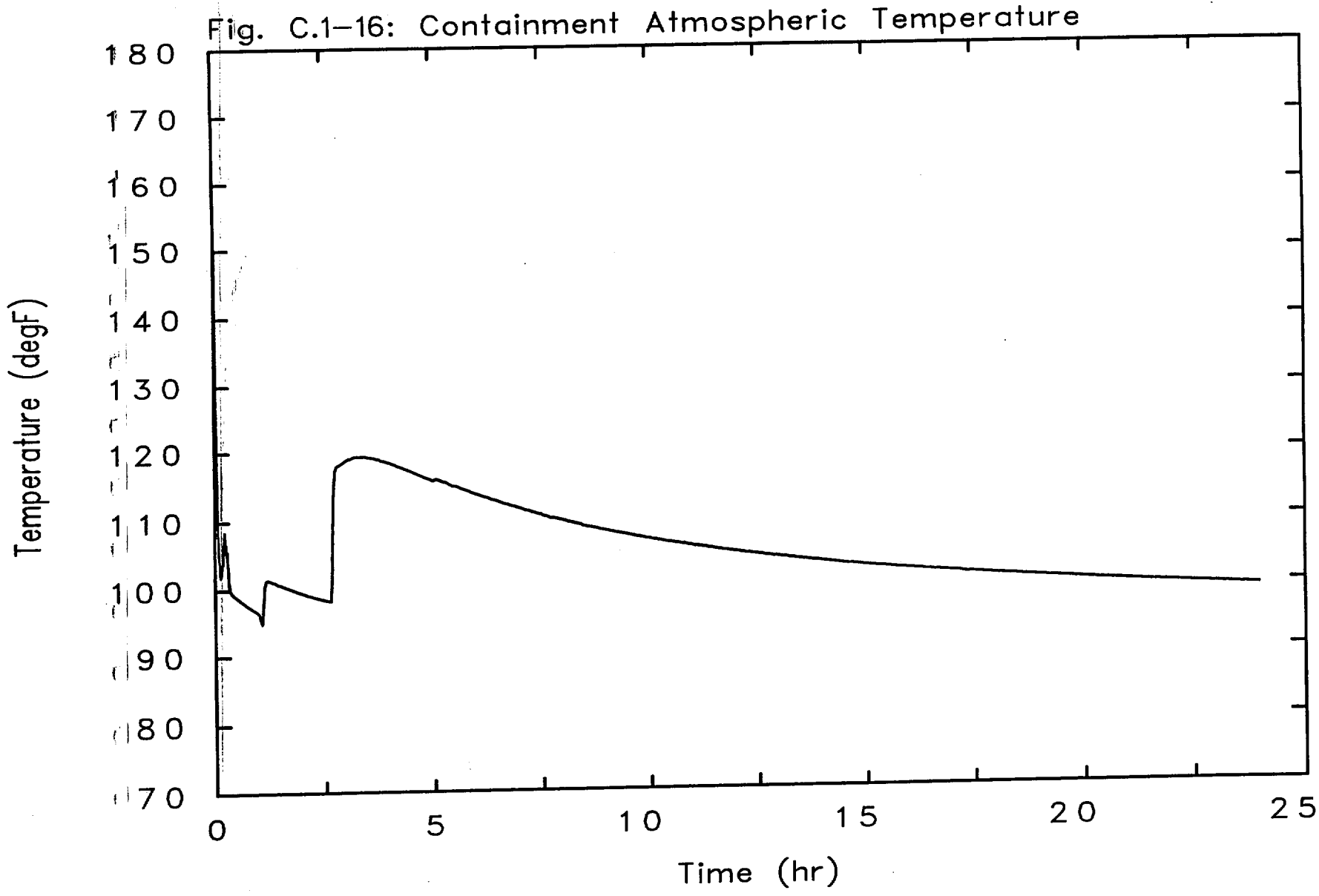
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CFVALU.546

Fig. C.1-15: Containment Pressure



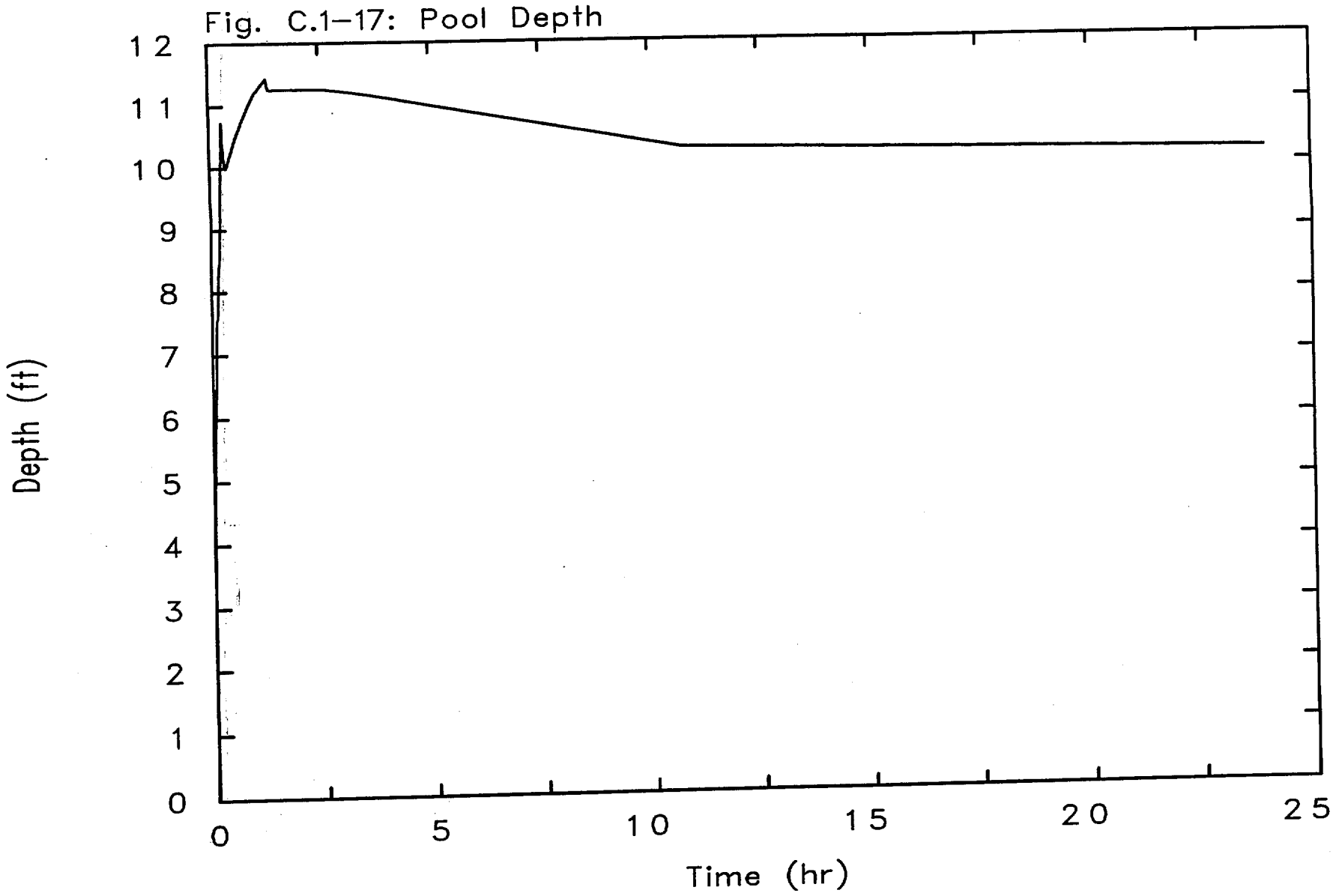
Cold Leg DEGB - Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CVH-P.070

Fig. C.1–16: Containment Atmospheric Temperature



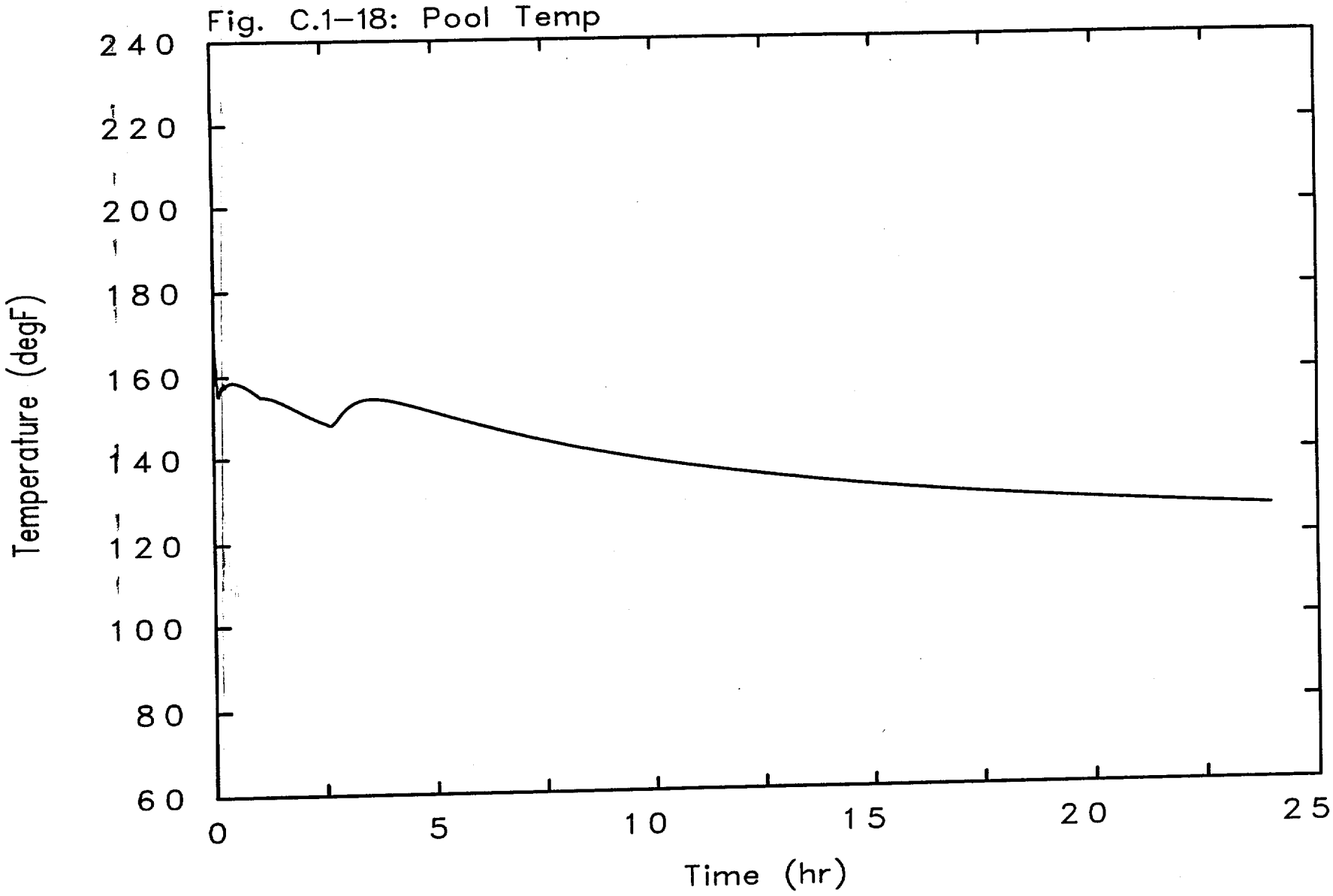
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CVH–TVAP.070

Fig. C.1–17: Pool Depth



Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CVH–LIQLEV.020

Fig. C.1-18: Pool Temp



Cold Leg DEGB - Ice Condenser Containment
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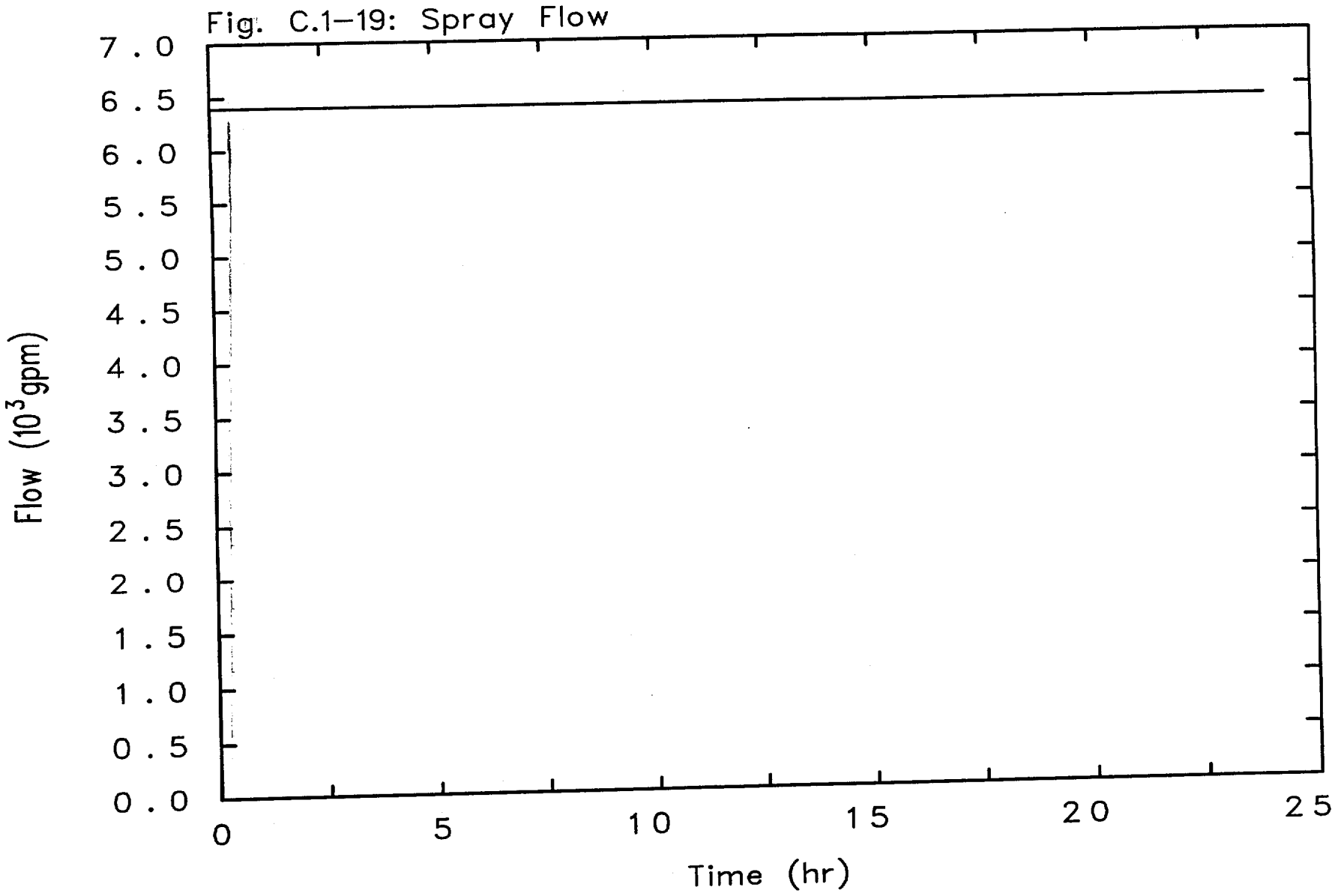
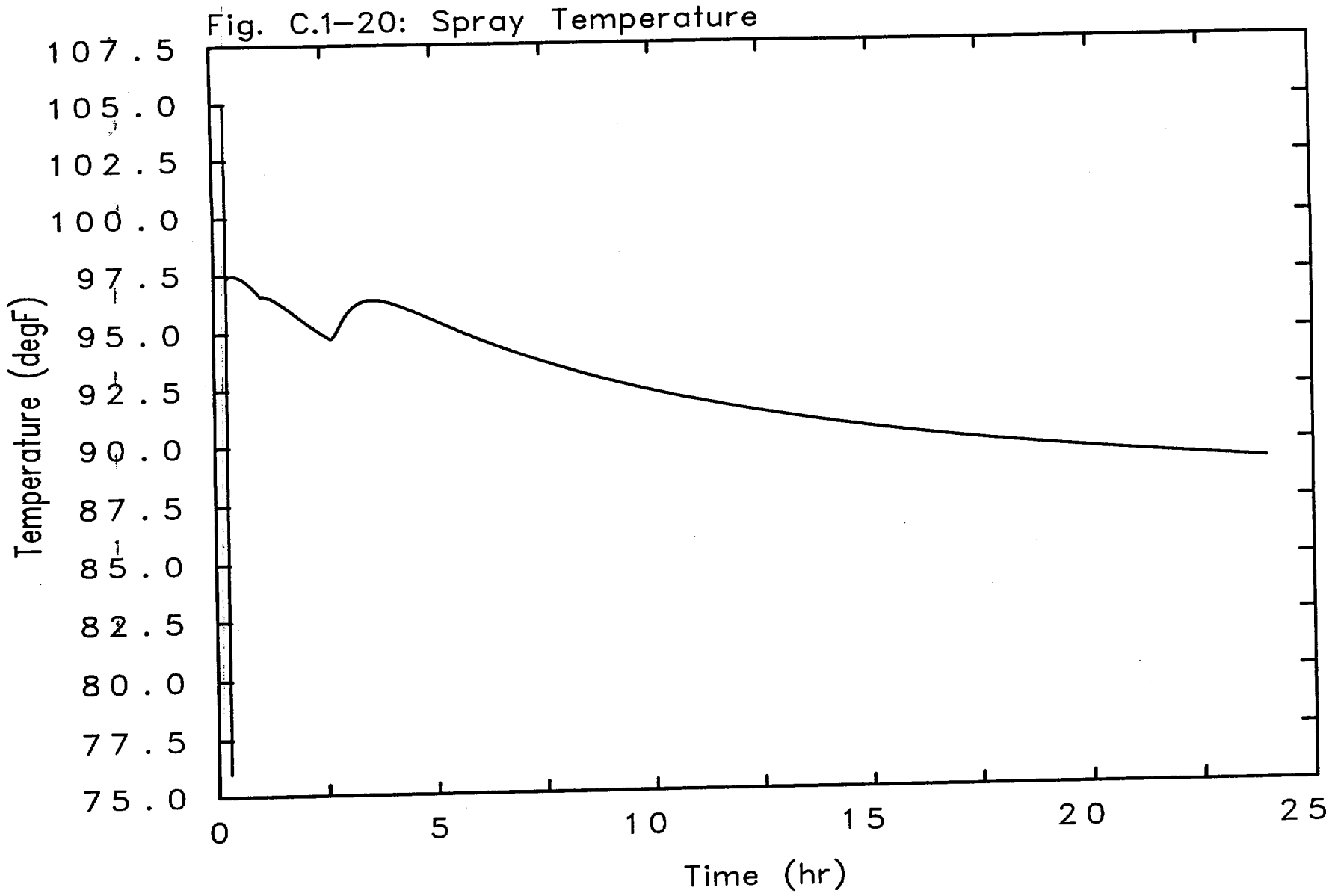
CVH-TLIQ.020

Fig. C.1–19: Spray Flow



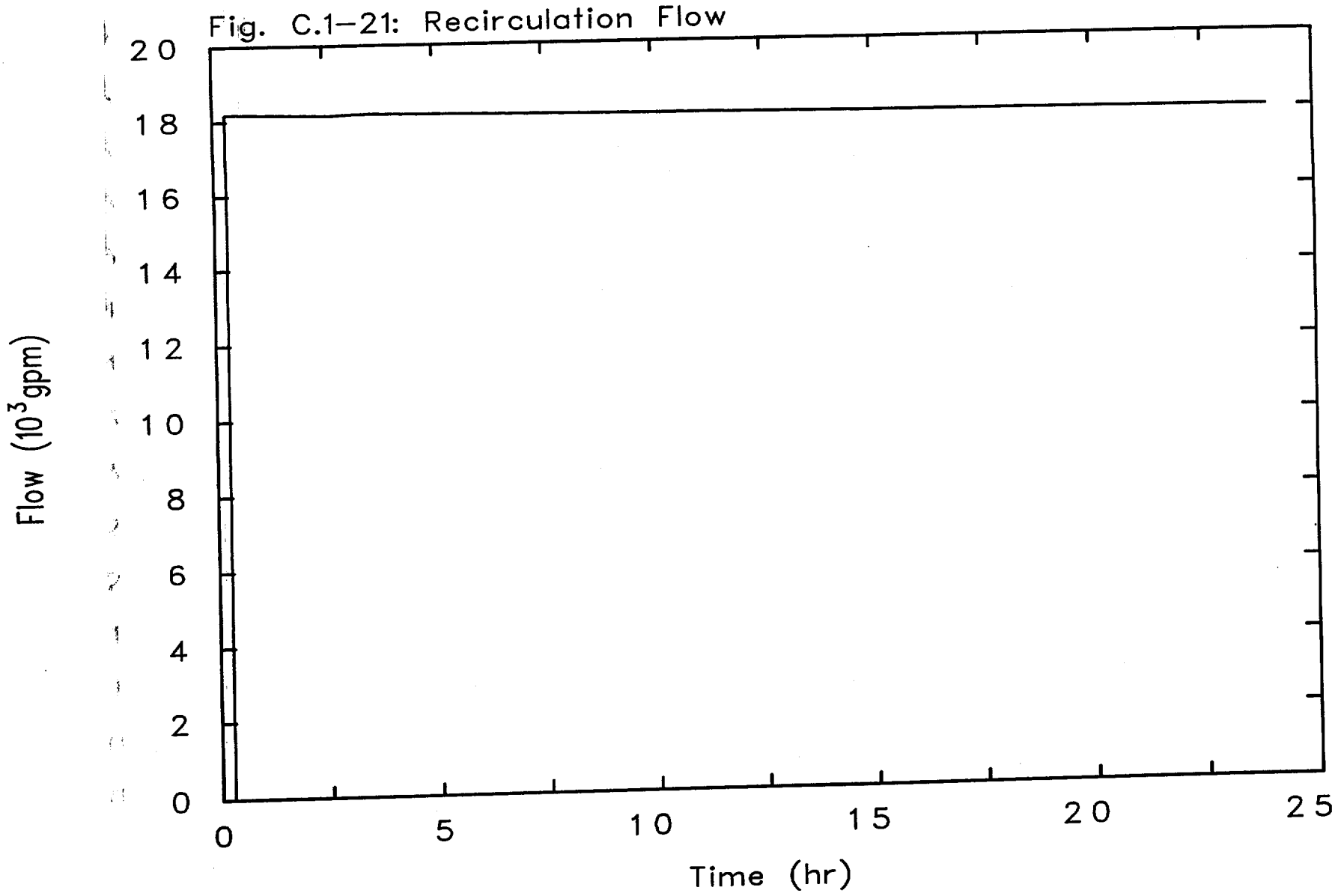
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CFVALU.300

Fig. C.1-20: Spray Temperature



Cold Leg DEGB - Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
CFVALU.304

Fig. C.1-21: Recirculation Flow



Cold Leg DEGB - Ice Condenser Containment
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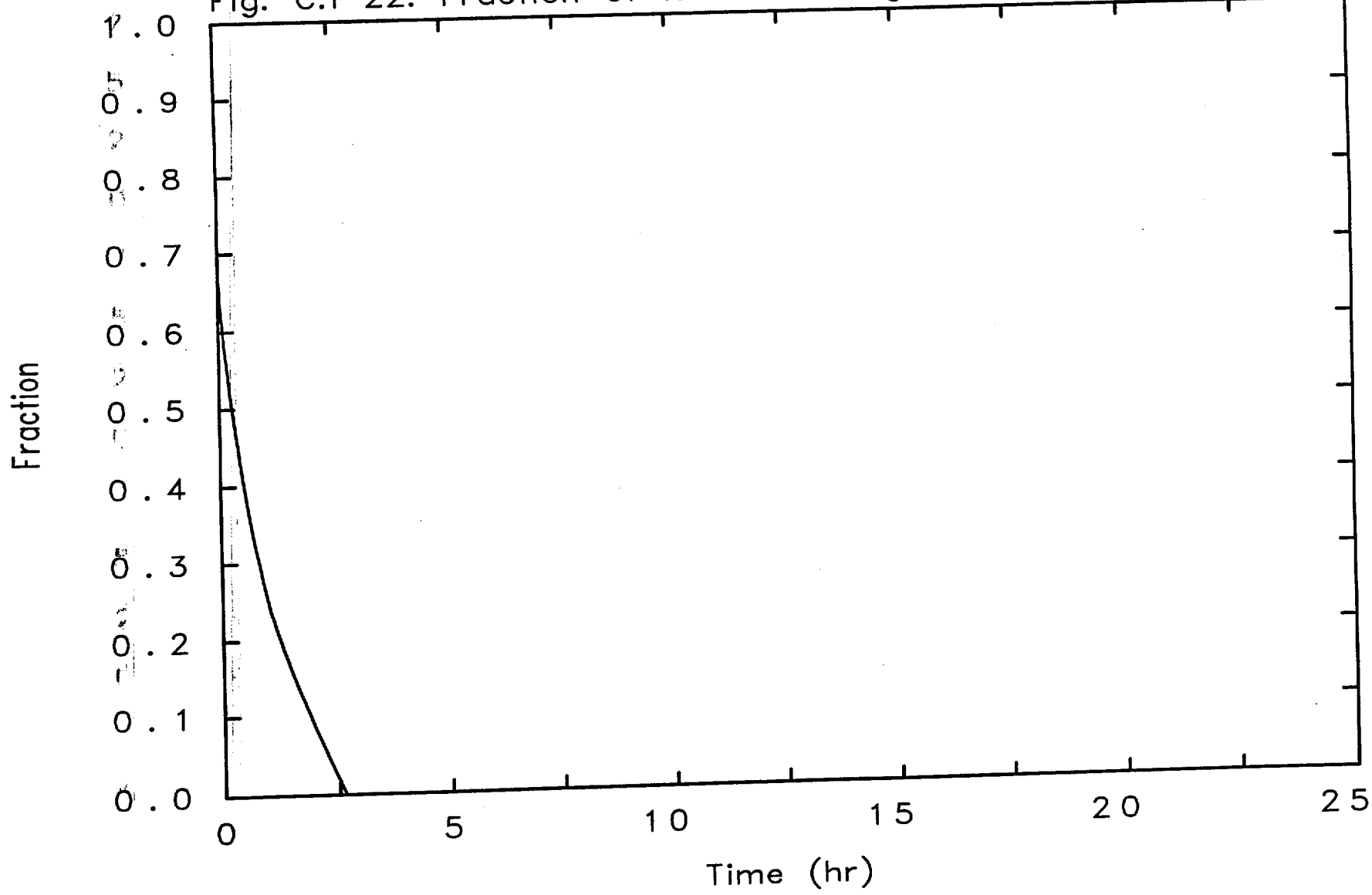
CFVALU.542

Fig. C.1-22: Fraction of Ice Remaining



Cold Leg DEGB – Ice Condenser Containment
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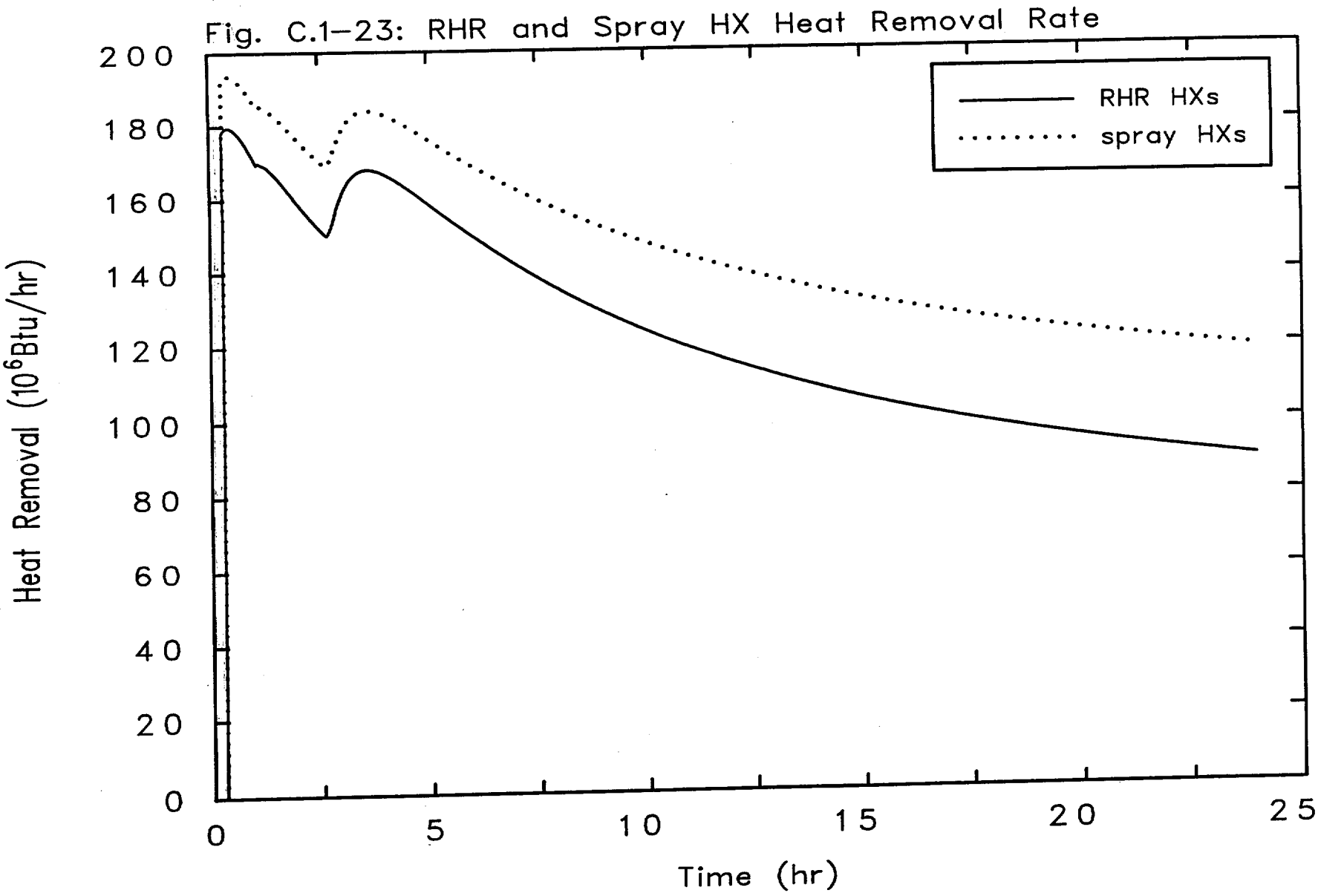
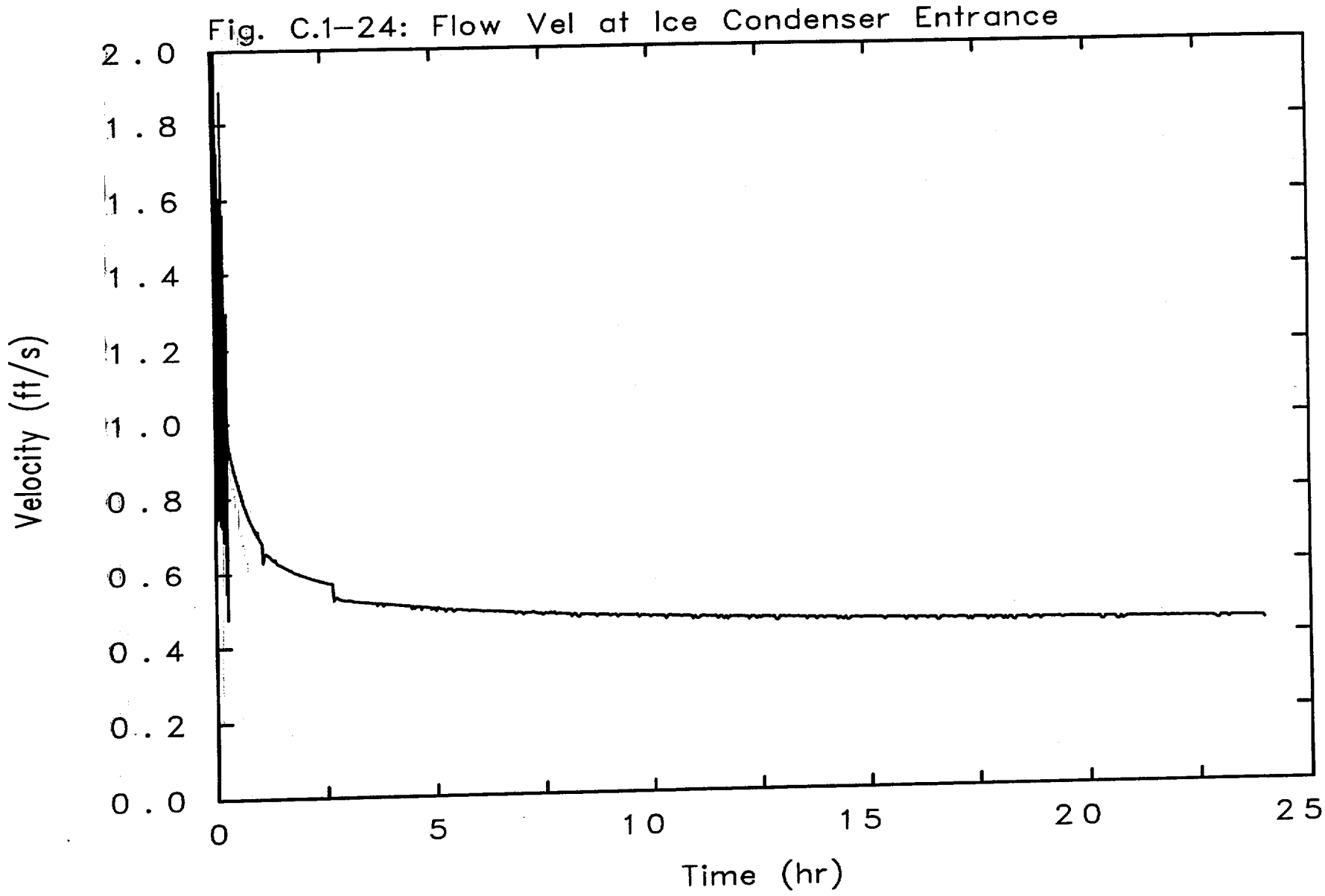
CFVALU.262

Fig. C.1–23: RHR and Spray HX Heat Removal Rate



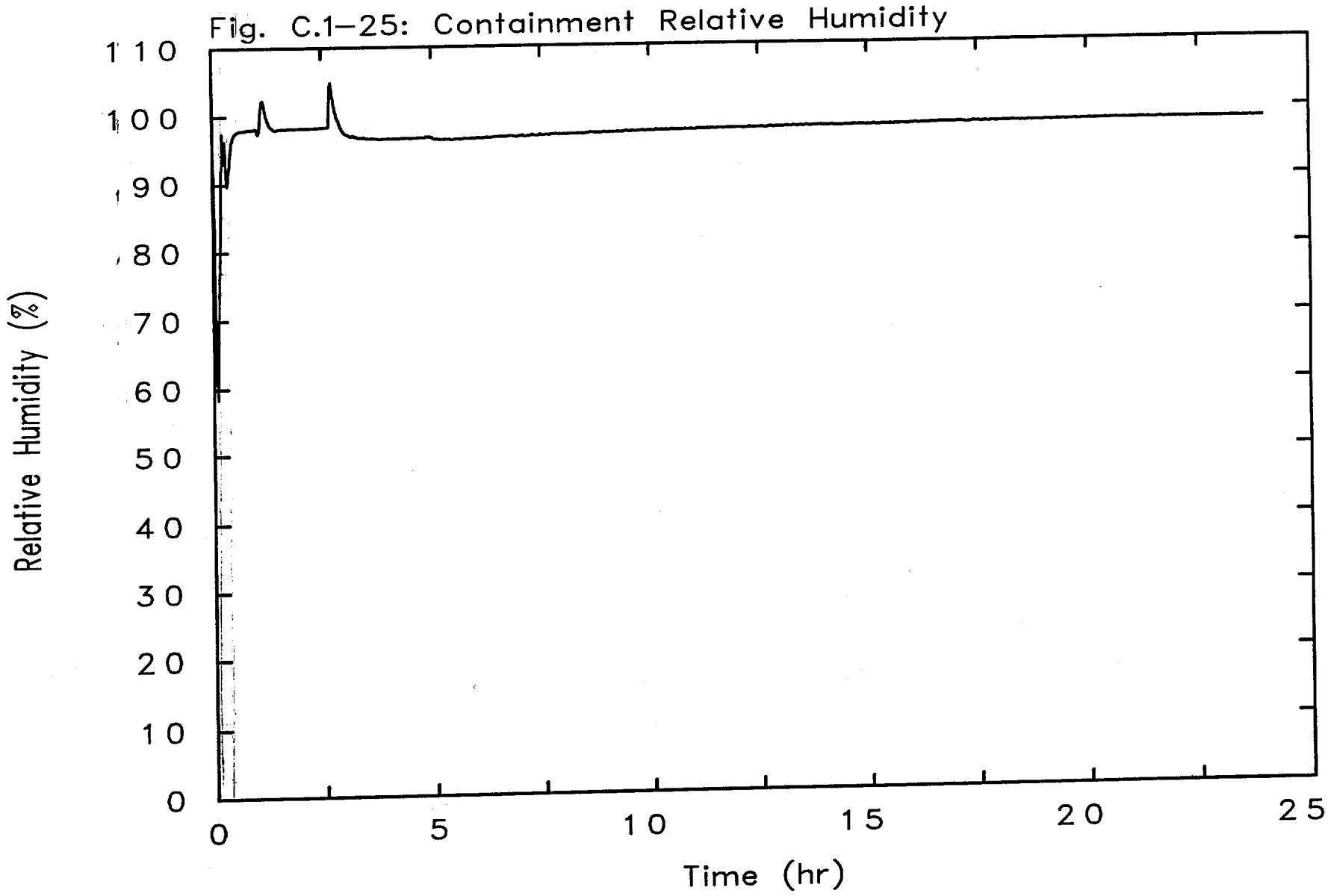
Cold Leg DEGB – Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC

Fig. C.1-24: Flow Vel at Ice Condenser Entrance



Cold Leg DEGB - Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC
FL-VELVAP.004

Fig. C.1–25: Containment Relative Humidity



Cold Leg DEGB – Ice Condenser Containment
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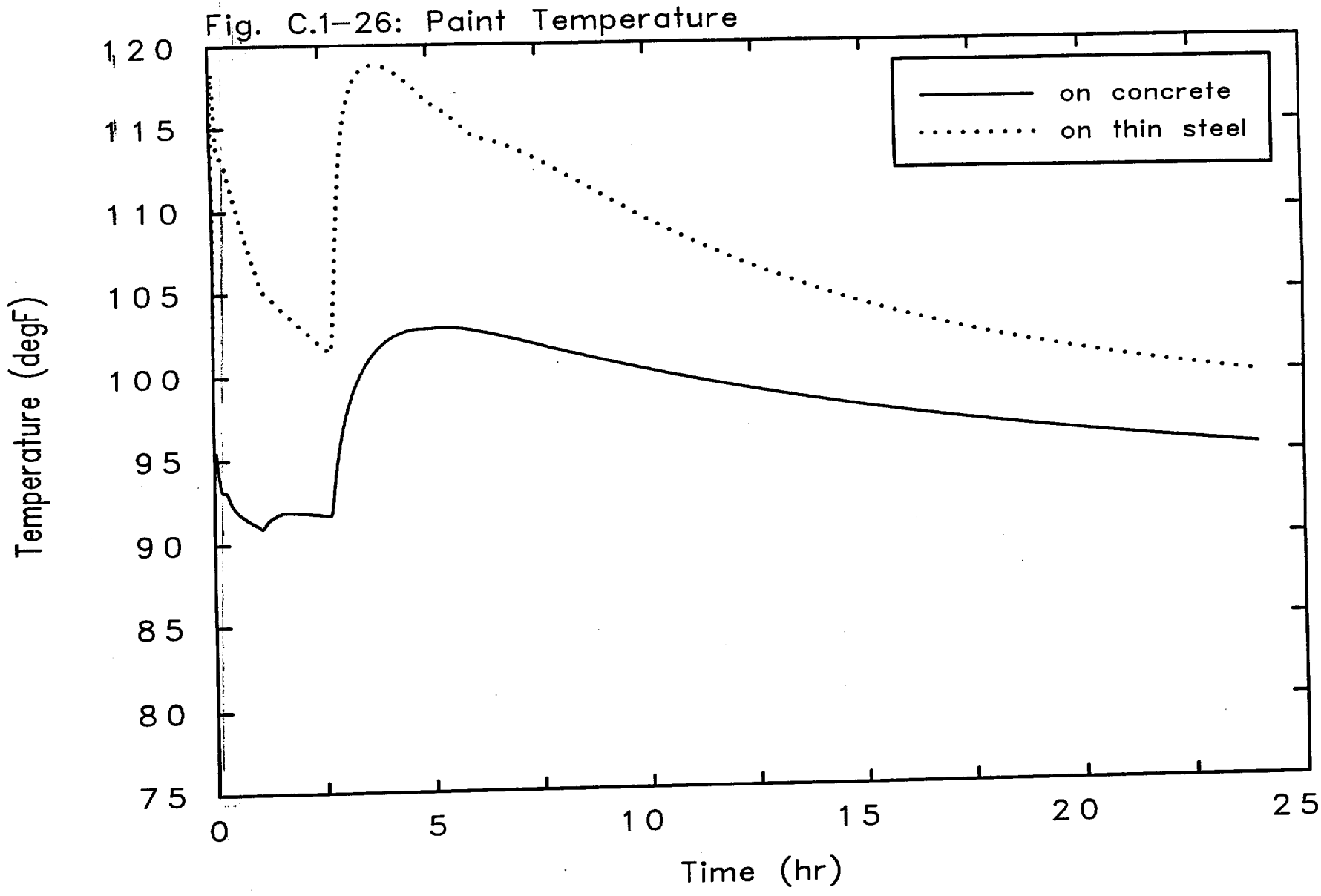
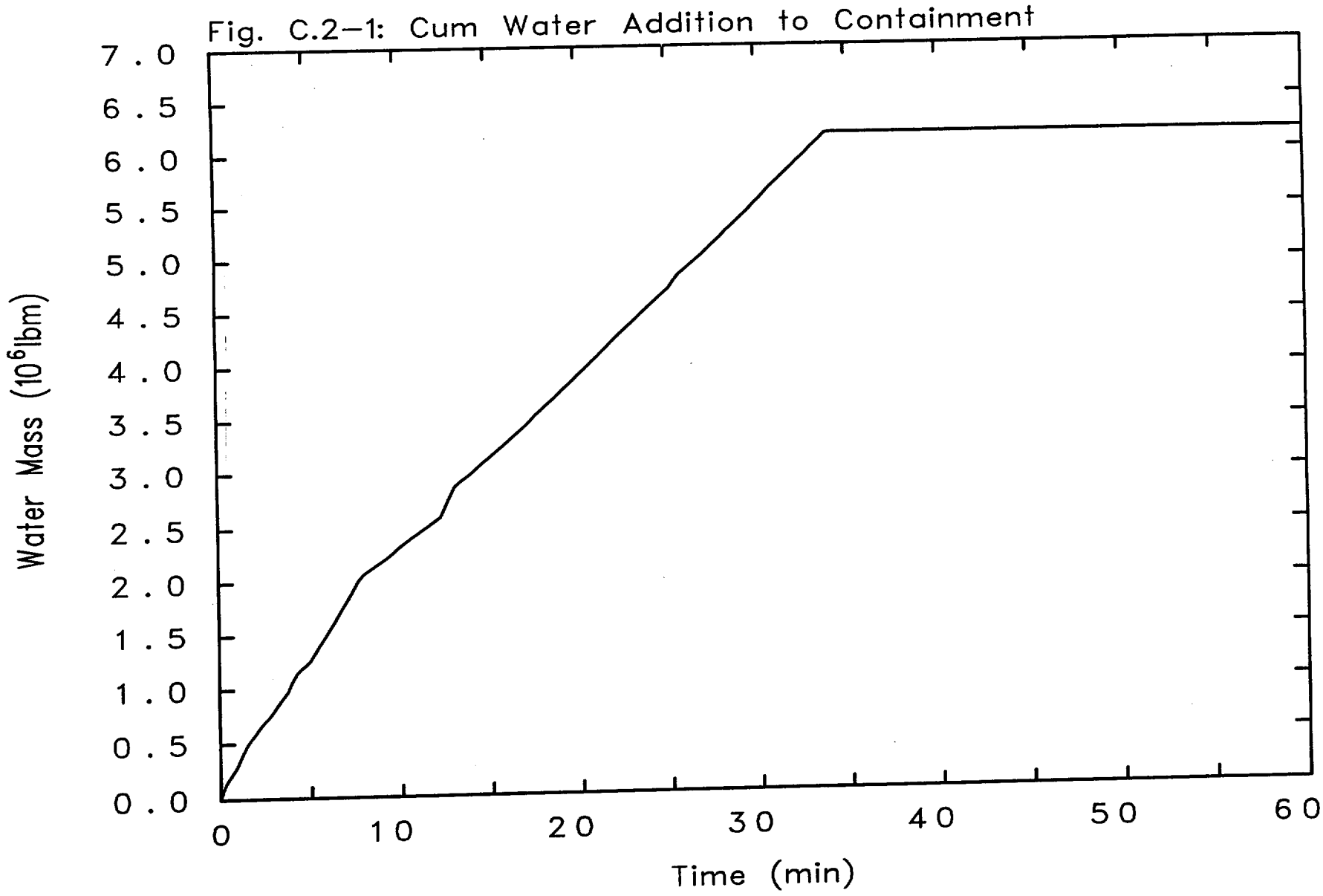
CFVALU.536

Fig. C.1-26: Paint Temperature



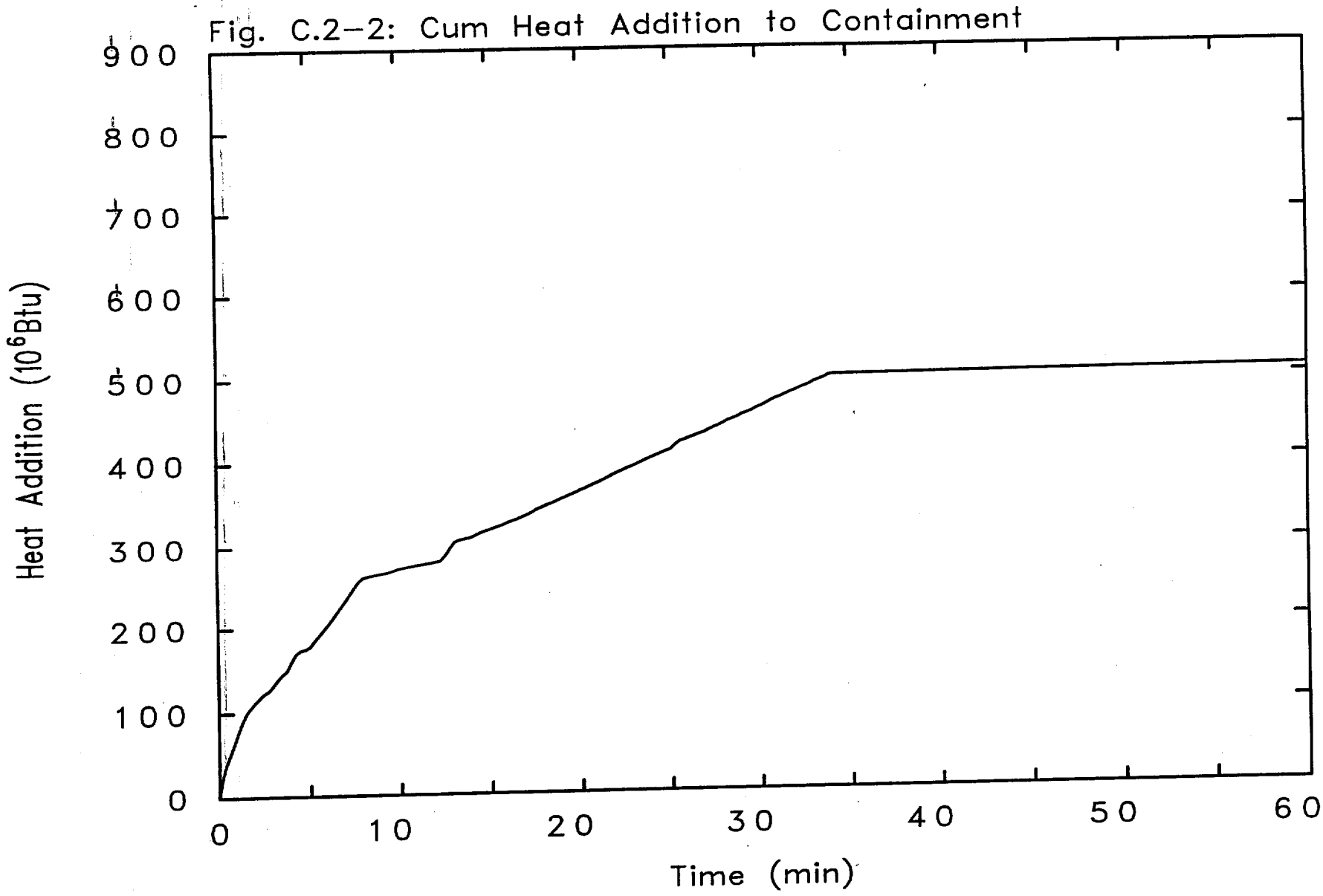
Cold Leg DEGB - Ice Condenser Containment
HWJIDXKNM 08/23/99 08:43:56 MELCOR PC

Fig. C.2-1: Cum Water Addition to Containment



Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
CFVALU.538

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



Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
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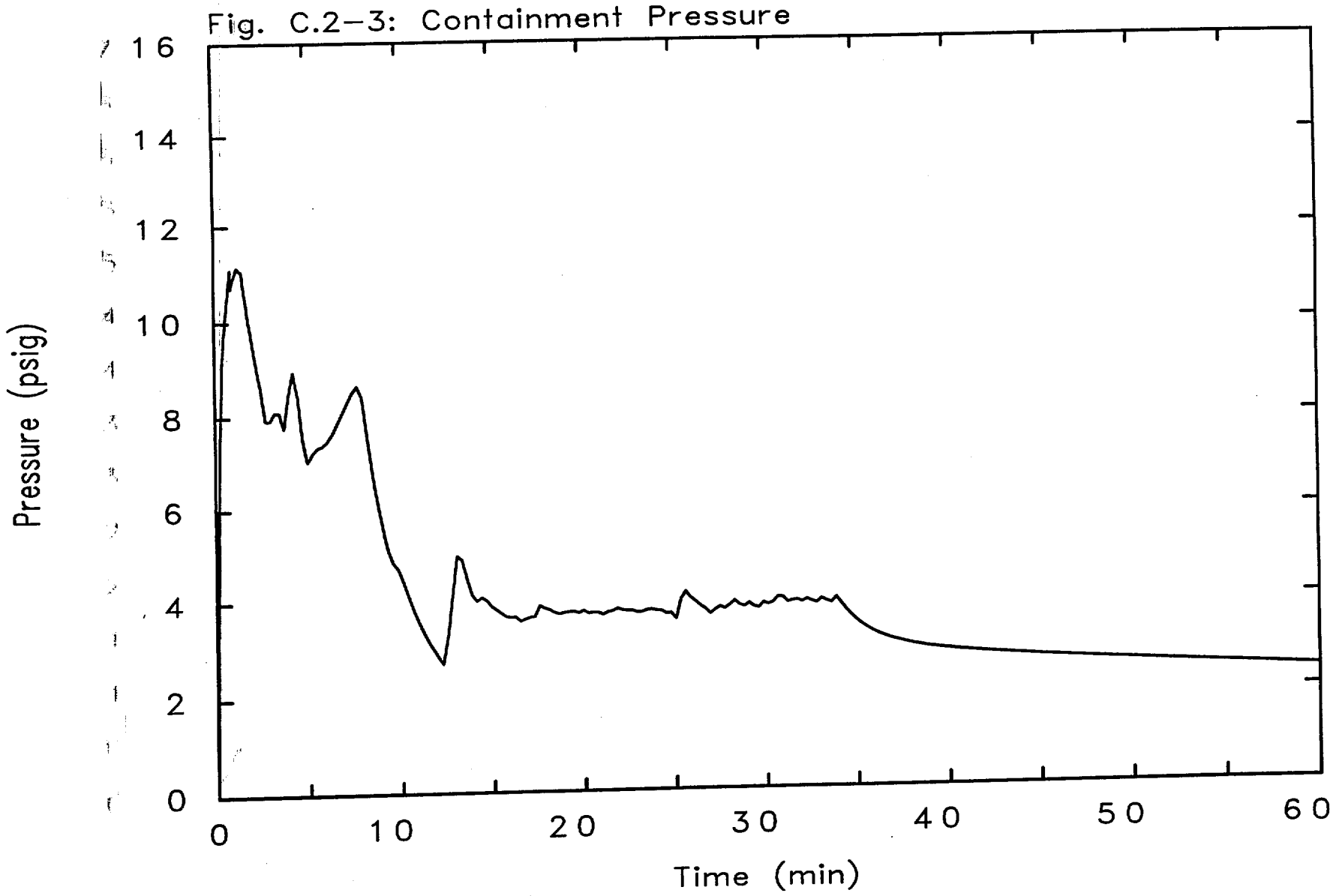
Fig. C.2-3: Containment Pressure



Medium LOCA - Ice Condenser Containment
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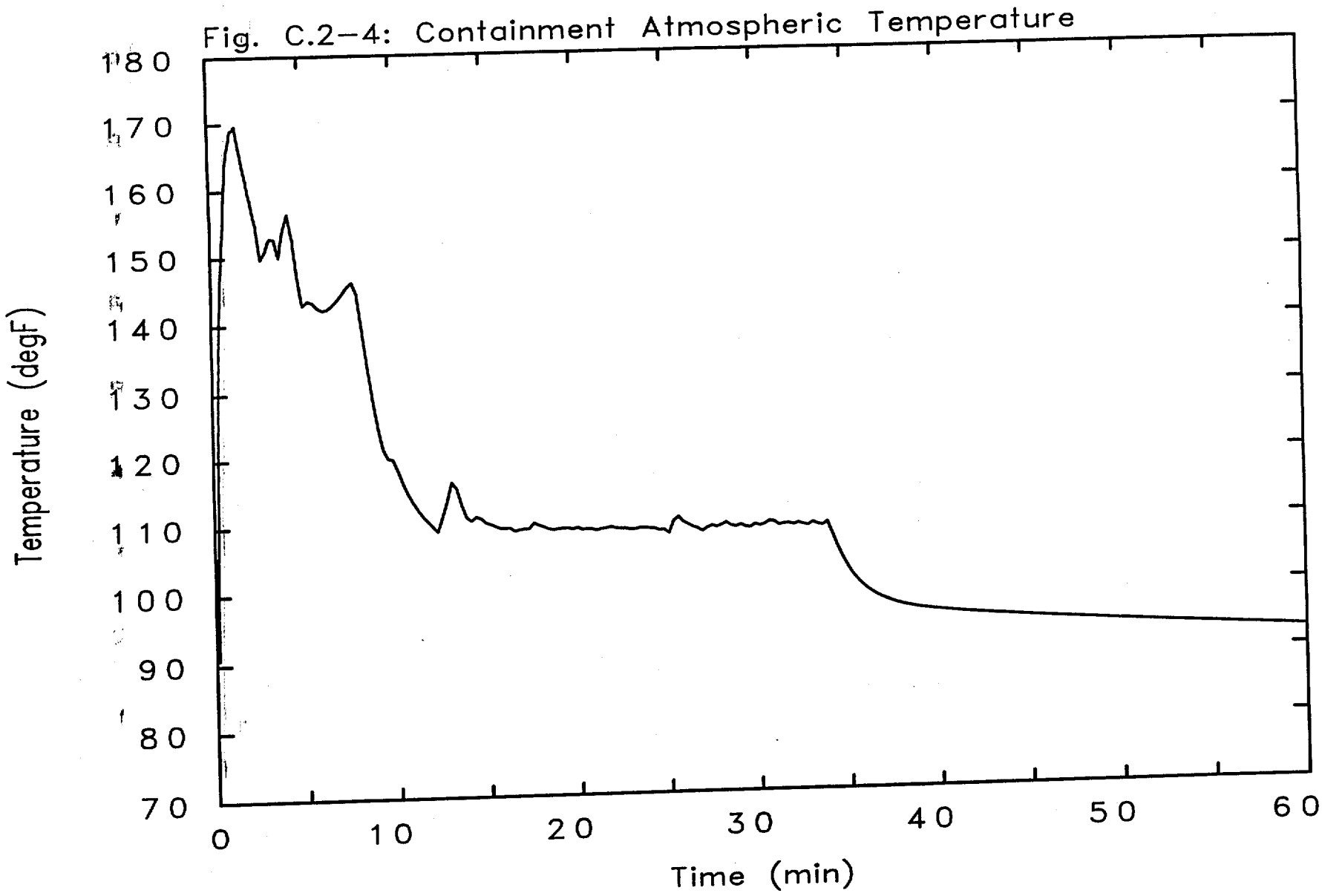
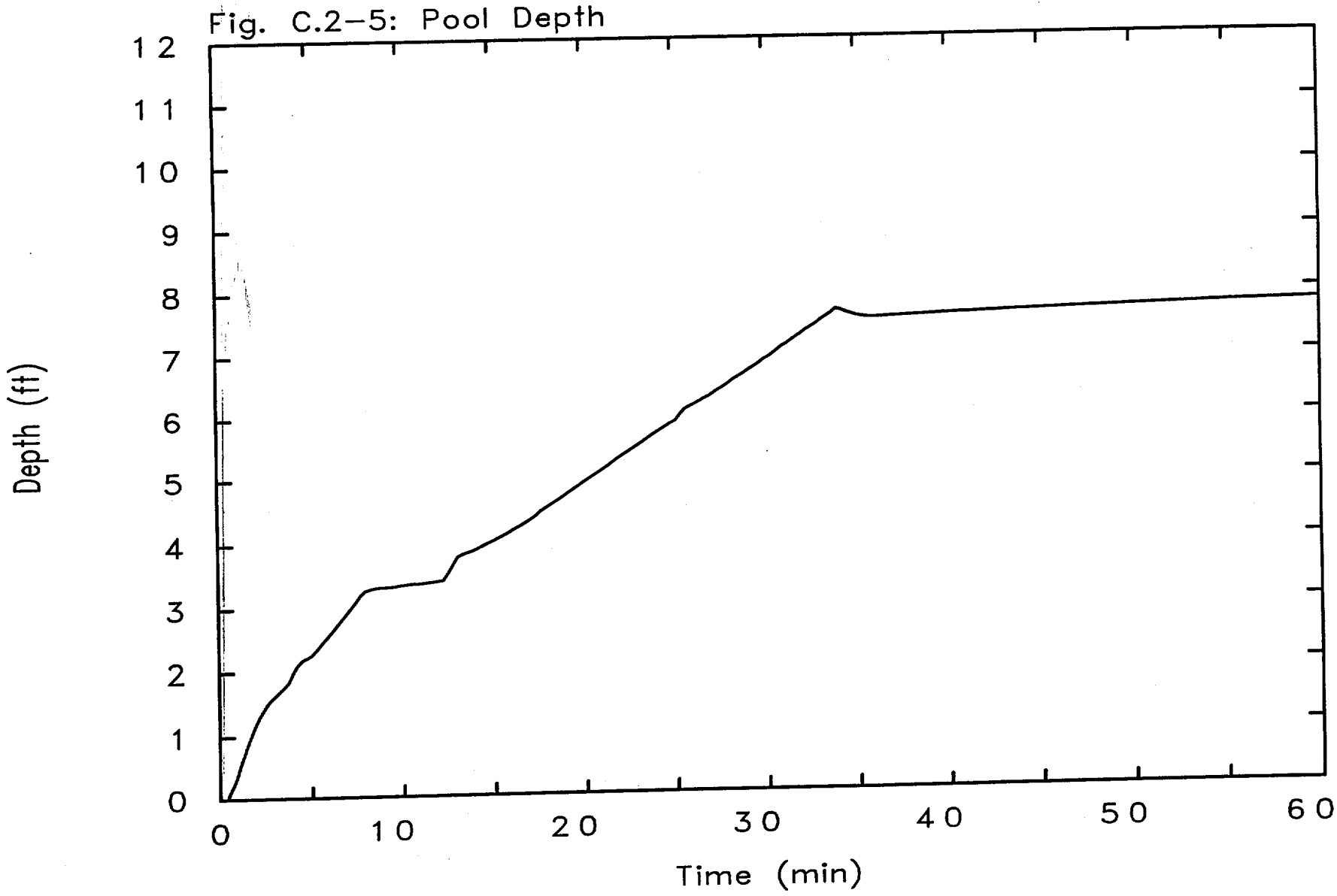
CVH-P.070

Fig. C.2-4: Containment Atmospheric Temperature



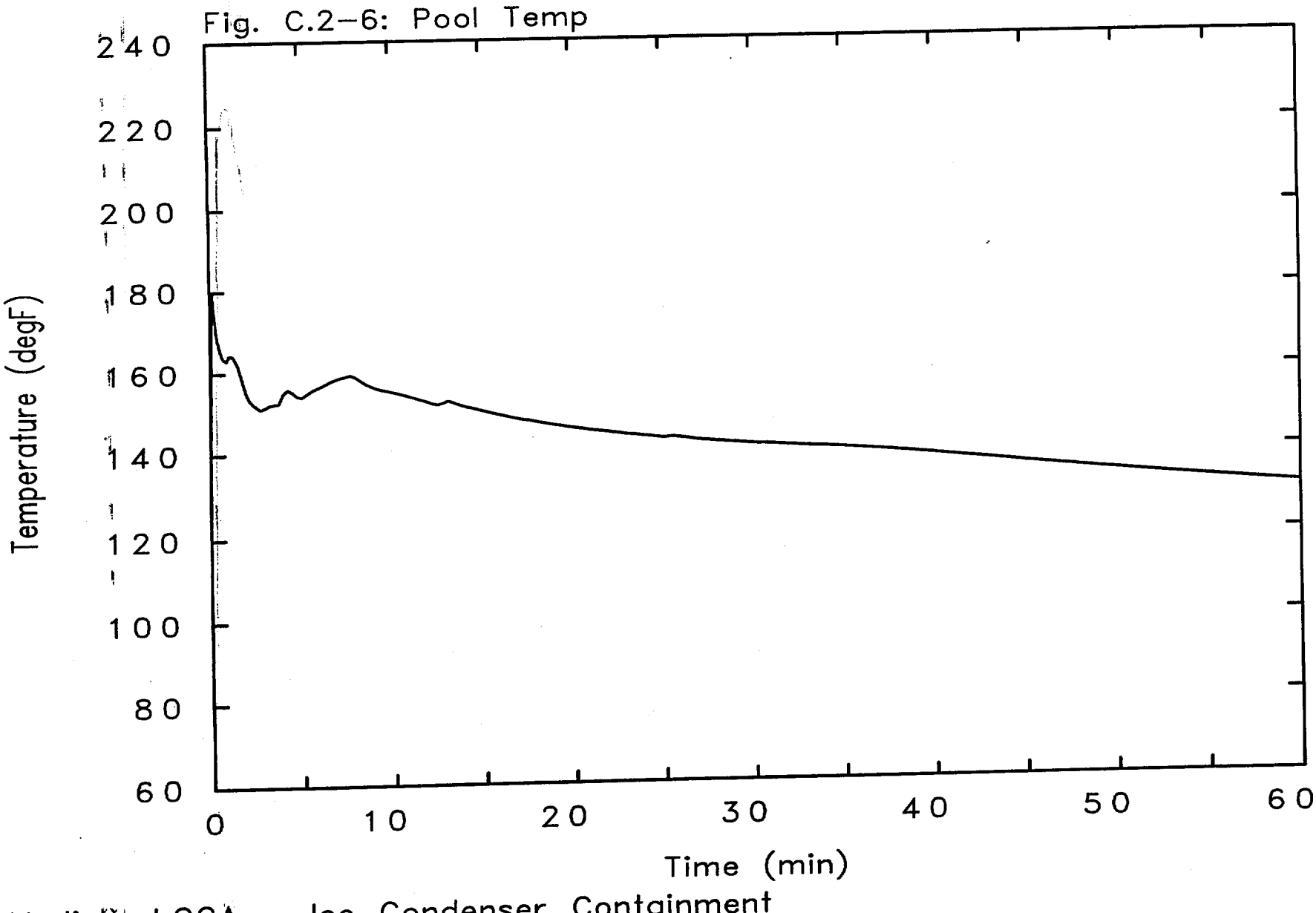
Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
CVH-TVAP.070

Fig. C.2-5: Pool Depth



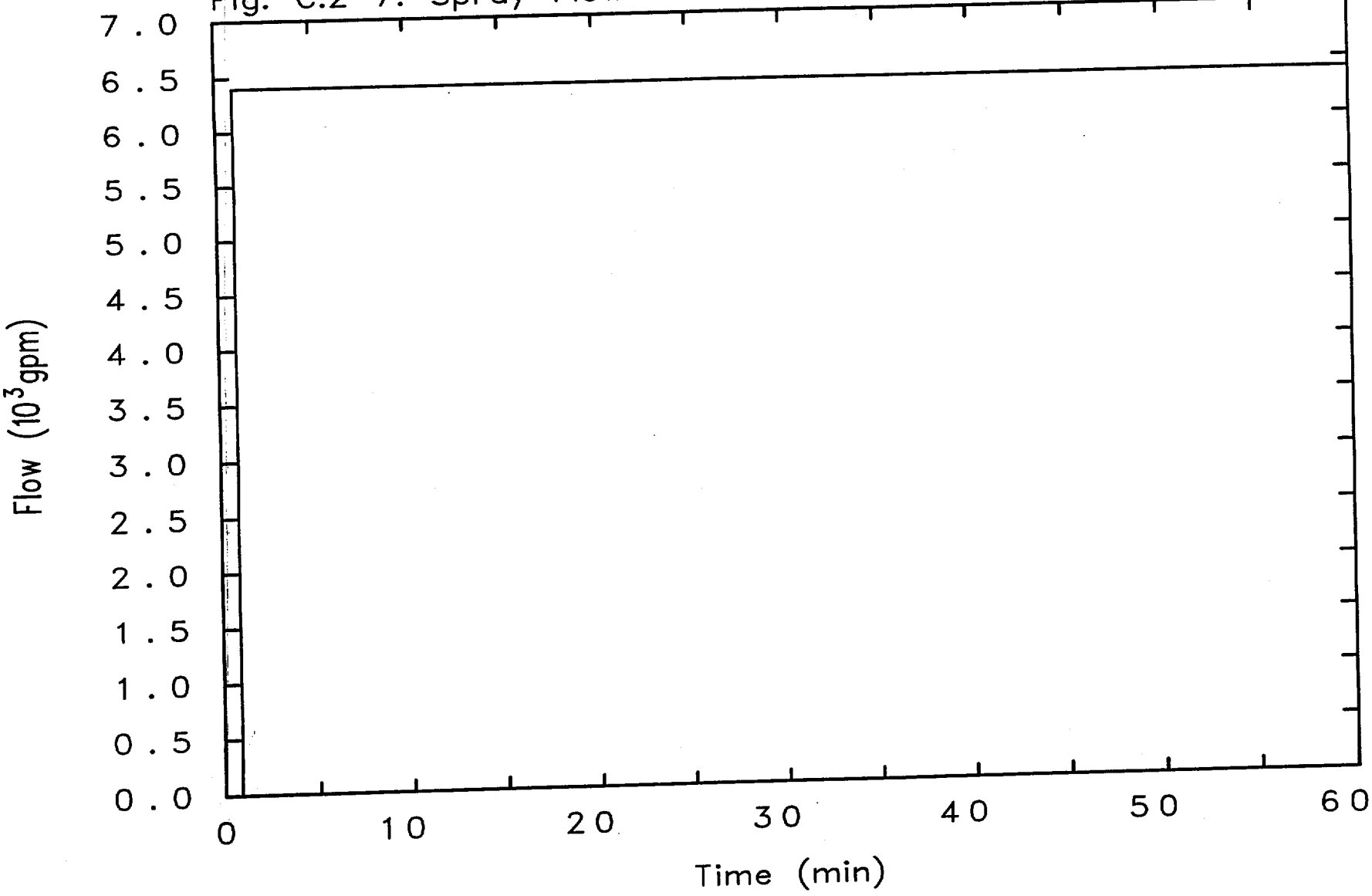
Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
CVH-LIQLEV.020

Fig. C.2-6: Pool Temp



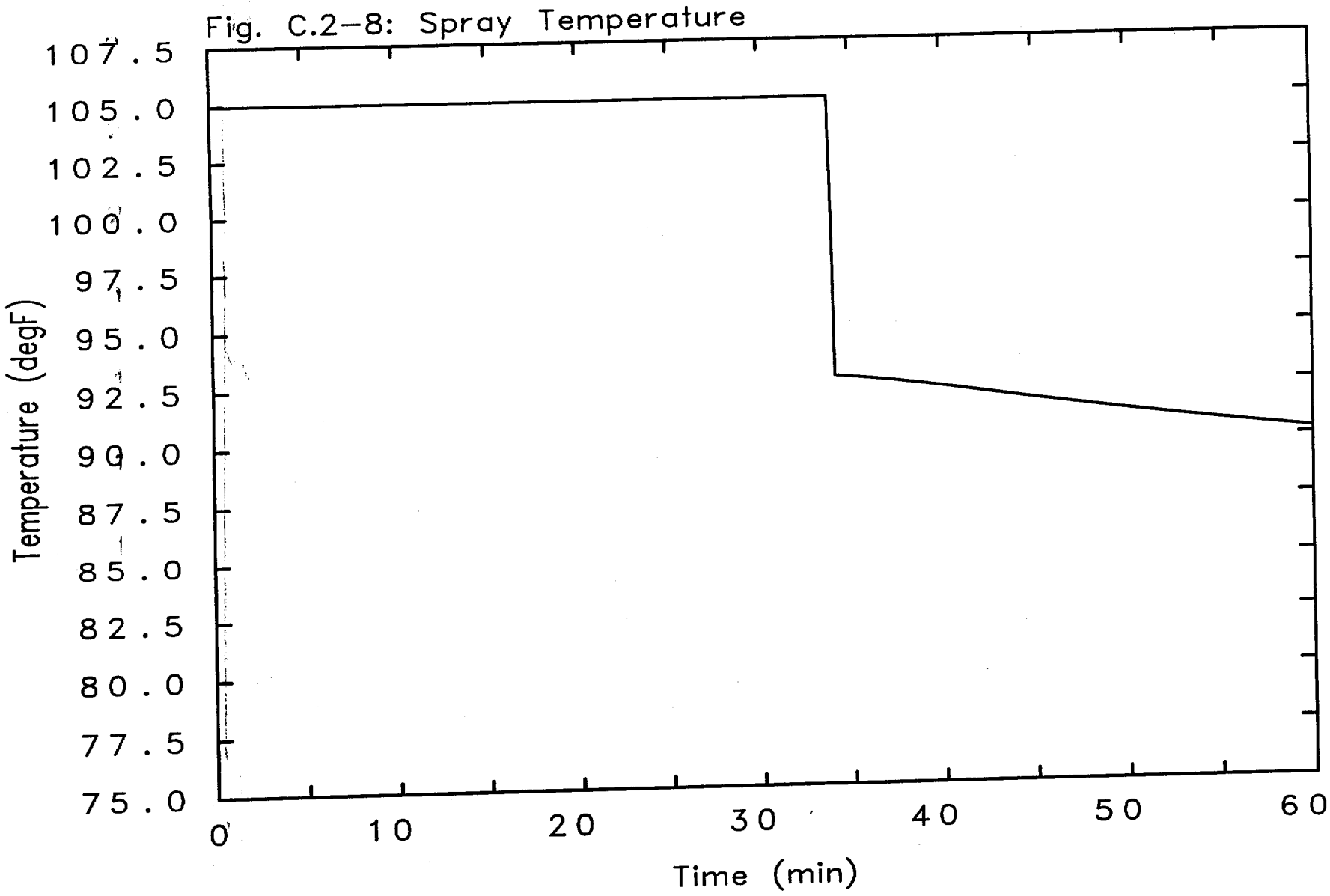
Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
CVH-TLIQ.020

Fig. C.2-7: Spray Flow



Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
CFVALU.300

Fig. C.2-8: Spray Temperature



Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
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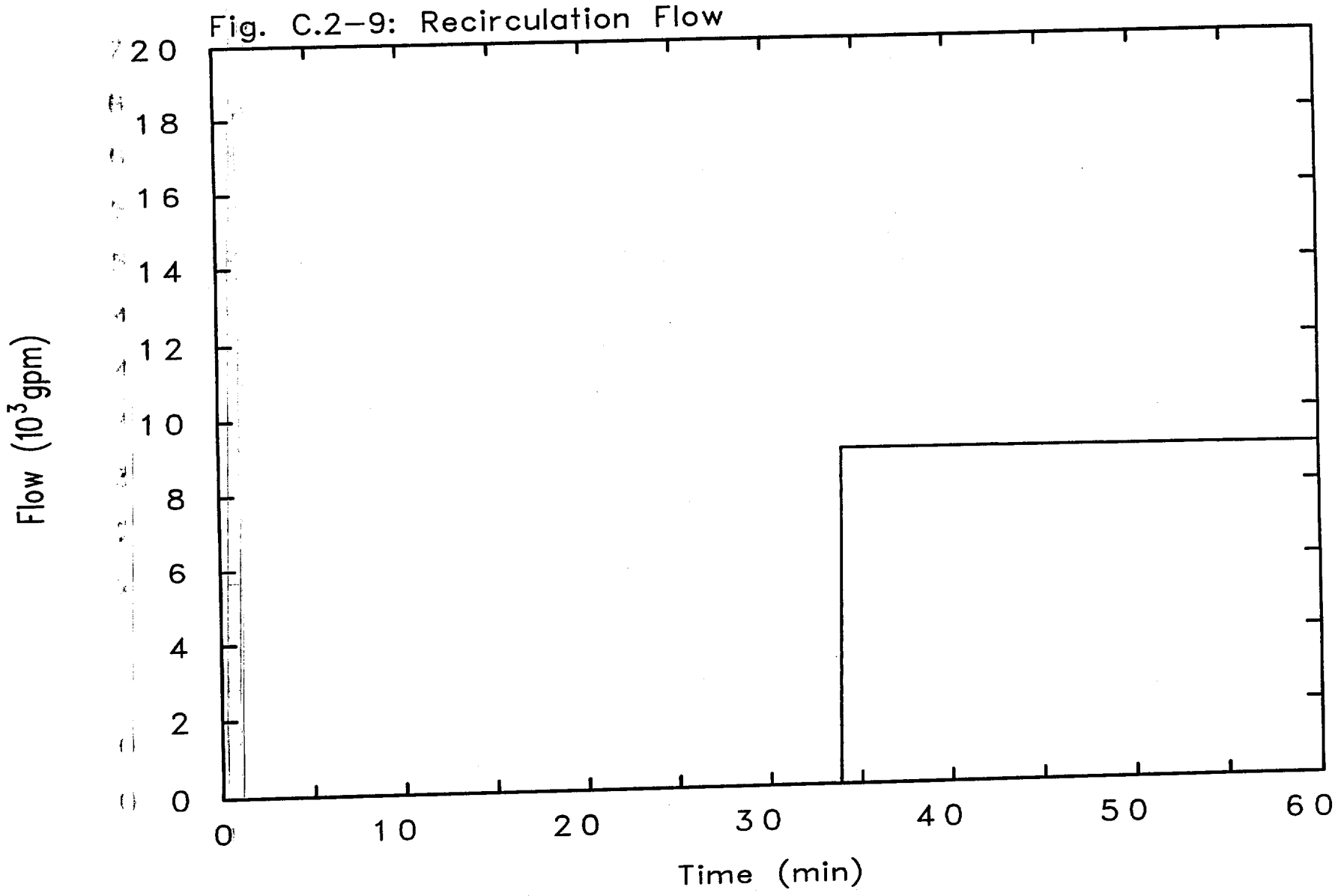
Fig. C.2-9: Recirculation Flow



Medium LOCA – Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
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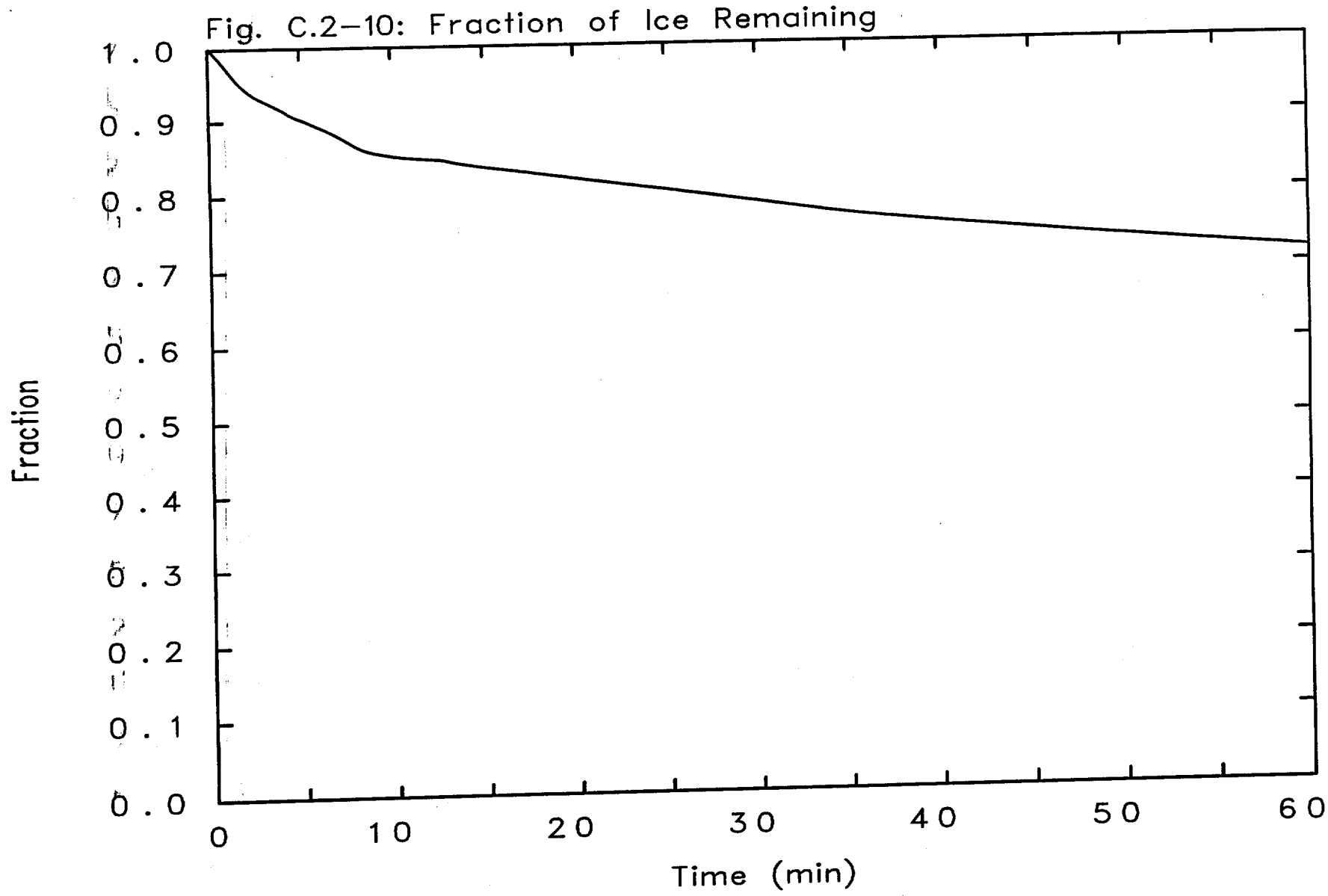
Fig. C.2-10: Fraction of Ice Remaining



Medium LOCA - Ice Condenser Containment
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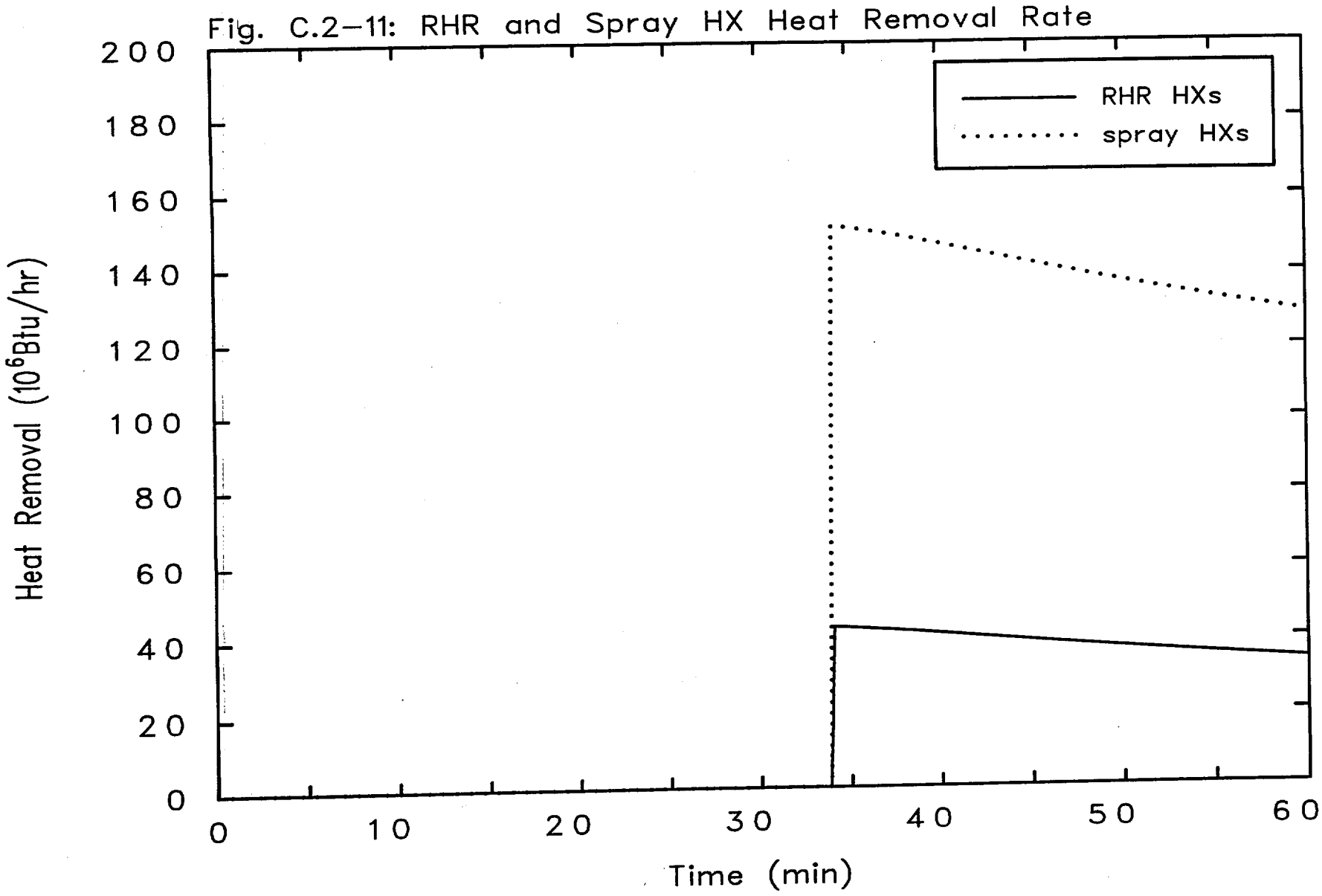
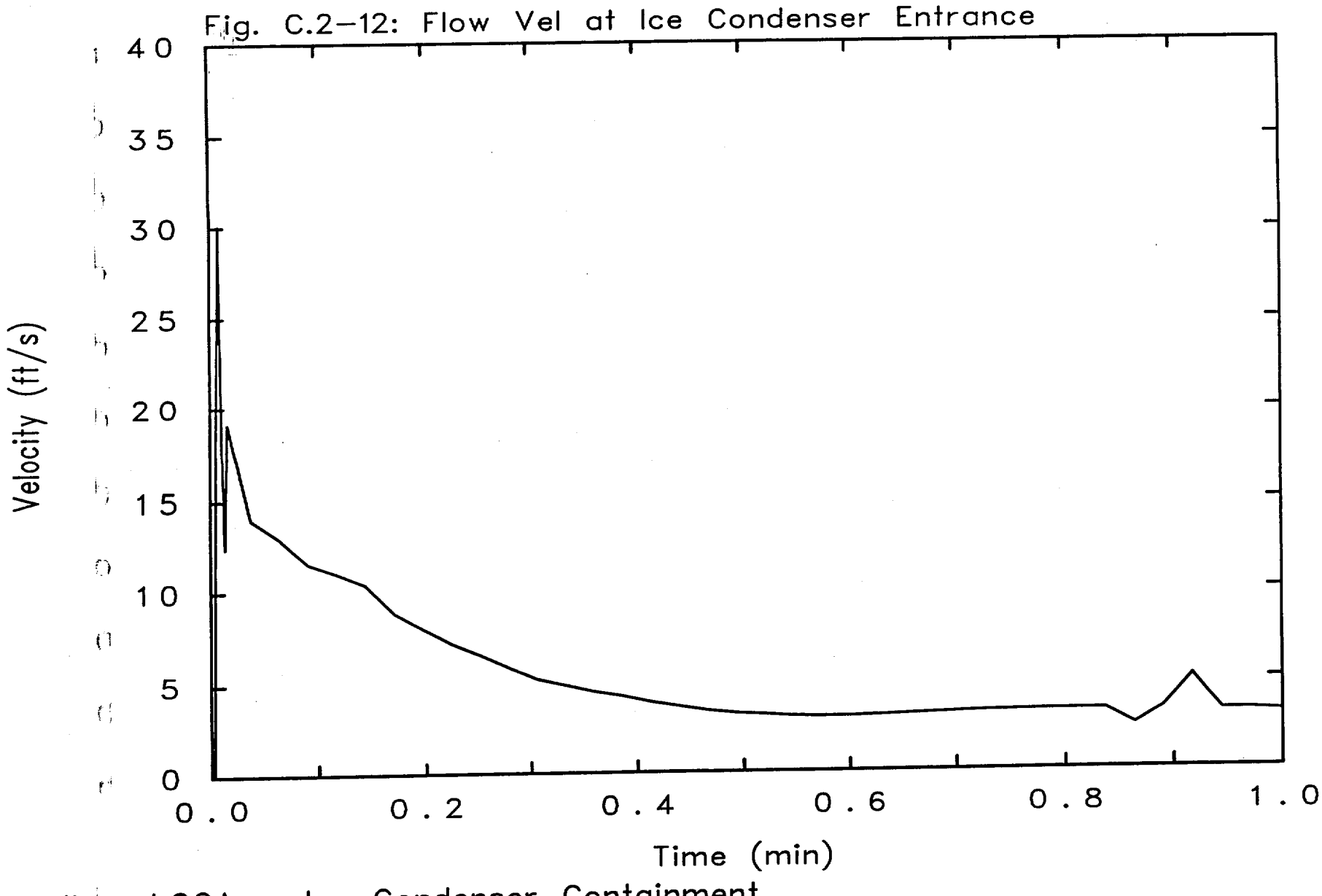
Fig. C.2-11: RHR and Spray HX Heat Removal Rate



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

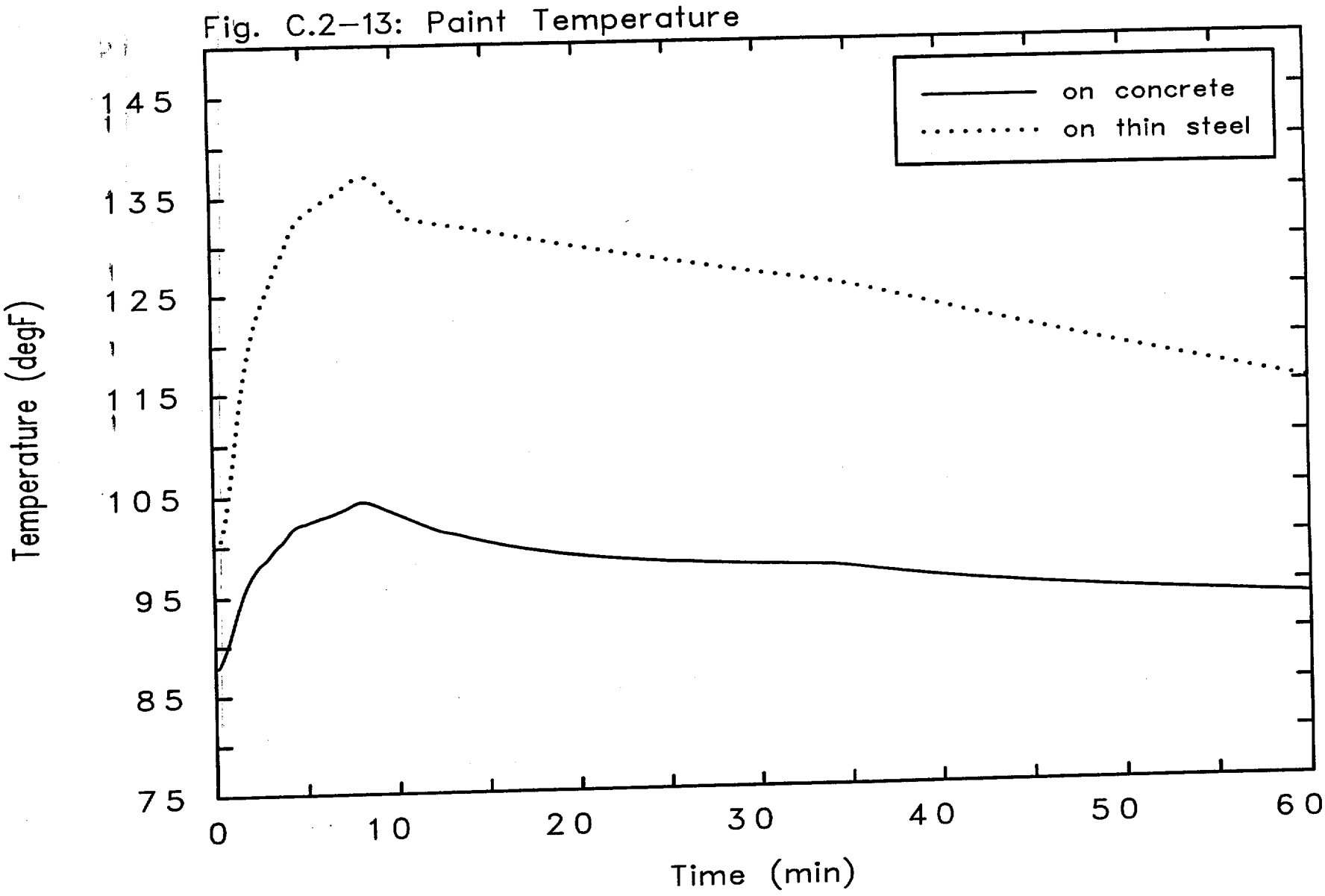

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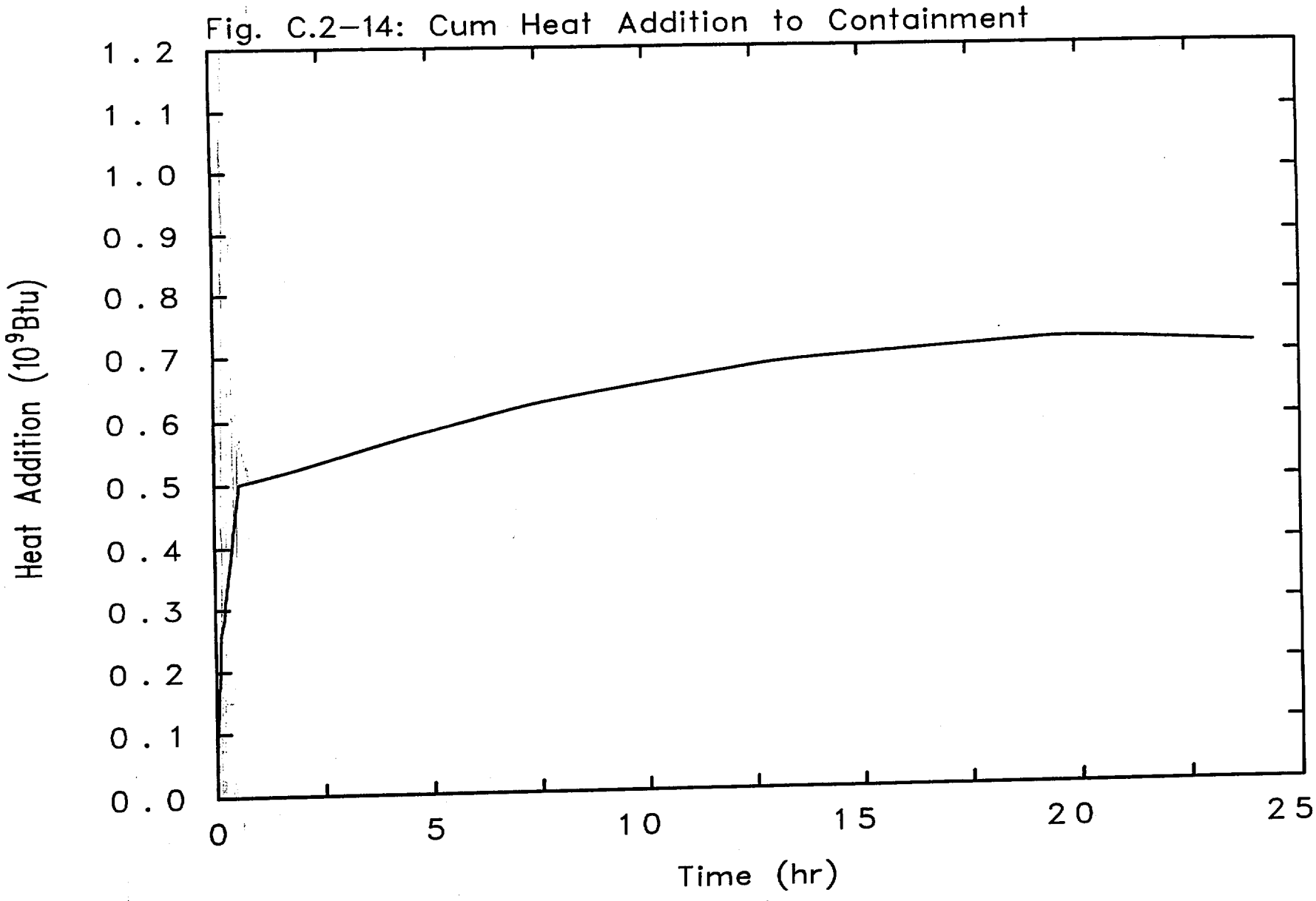
Fig. C.2–14: Cum Heat Addition to Containment



Medium LOCA – Ice Condenser Containment
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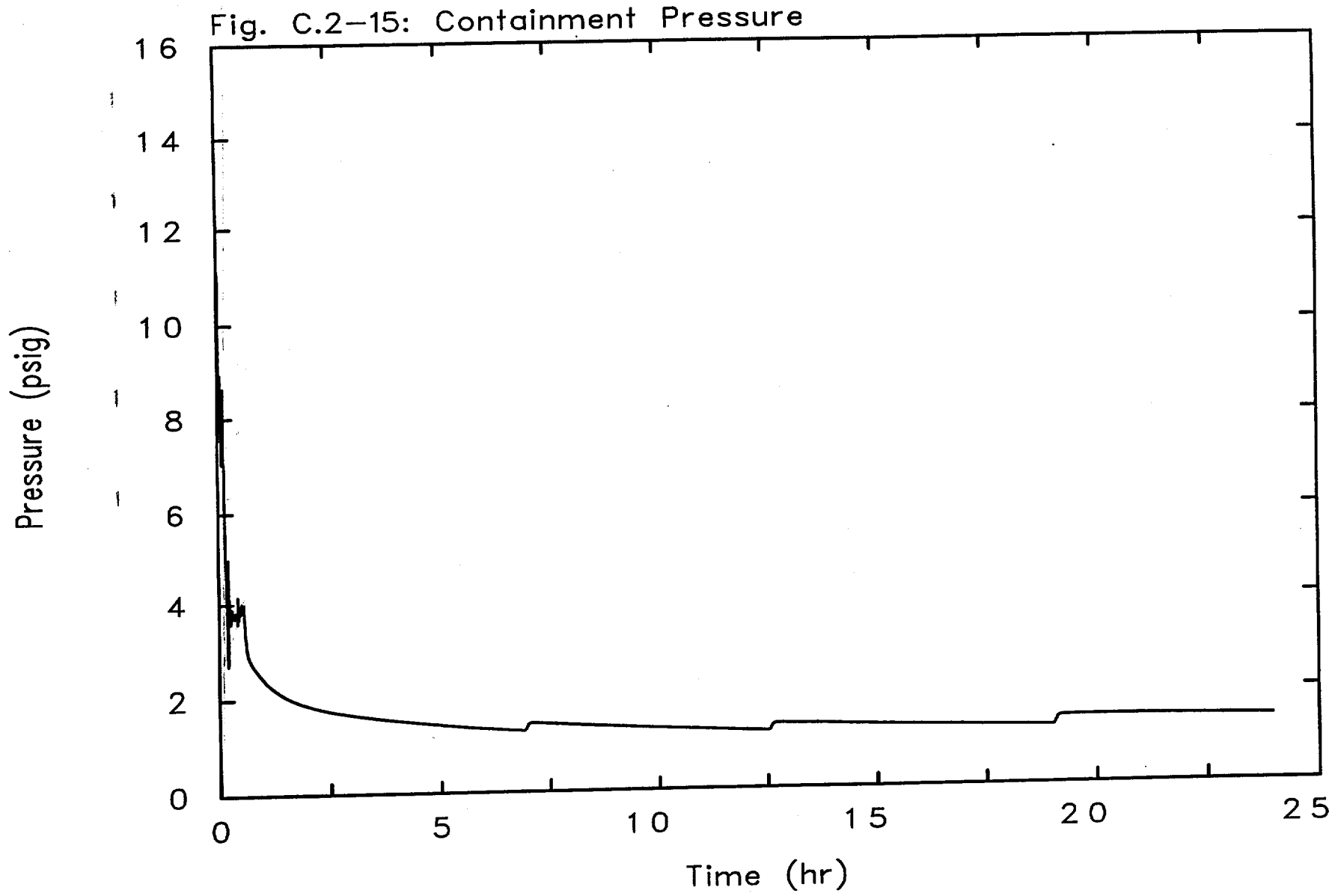
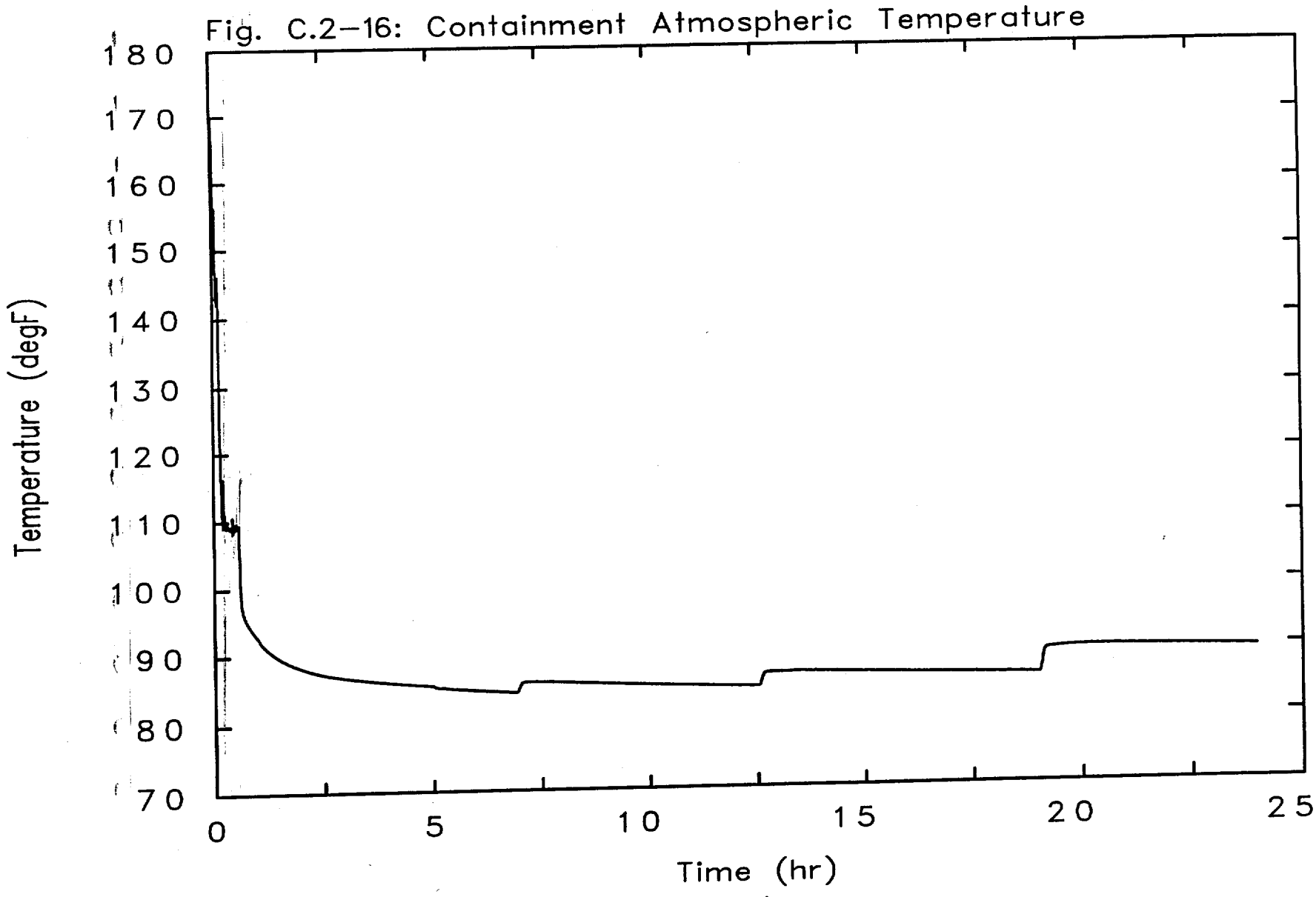
Fig. C.2–15: Containment Pressure



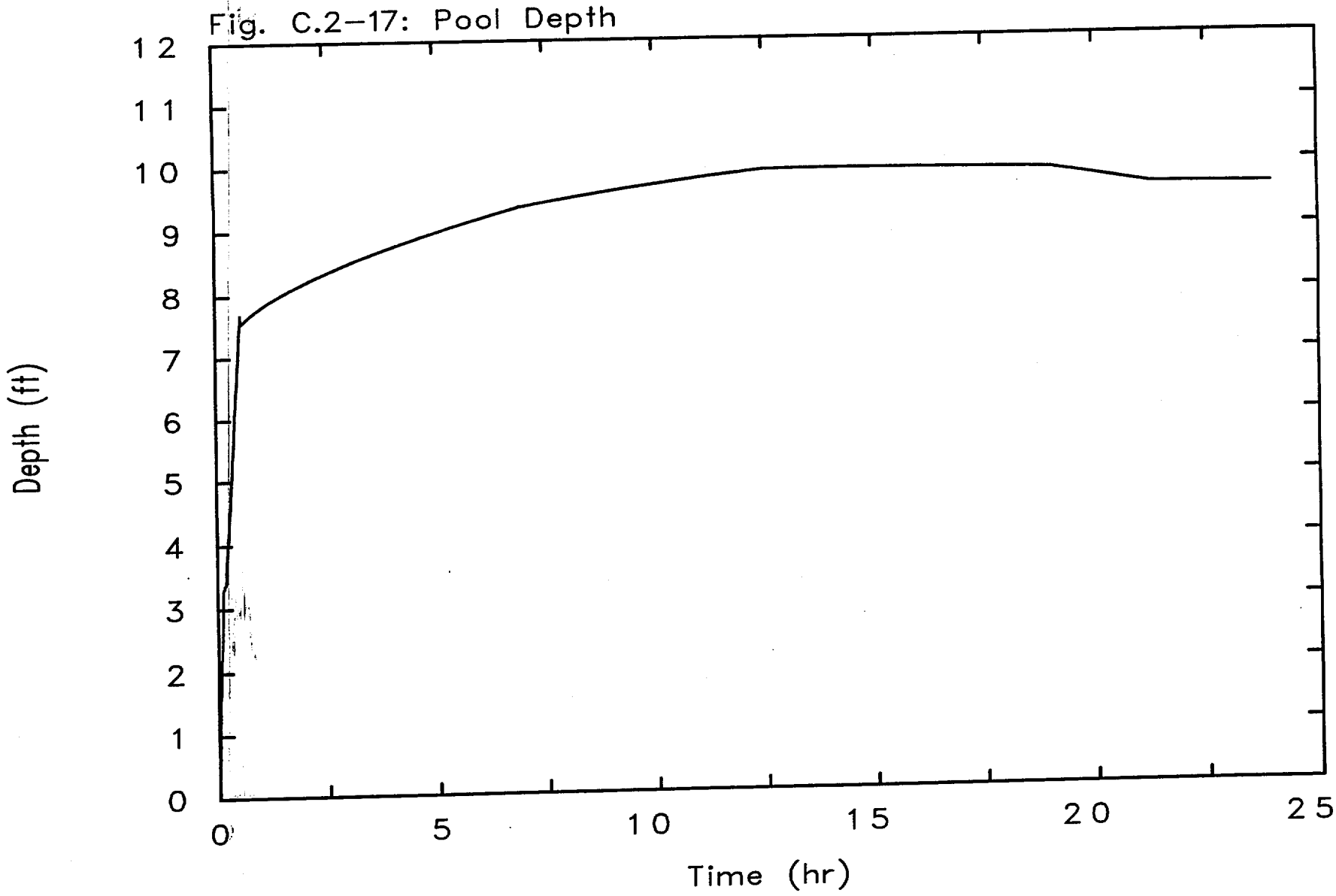
Medium LOCA – Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
CVH–P.070

Fig. C.2-16: Containment Atmospheric Temperature



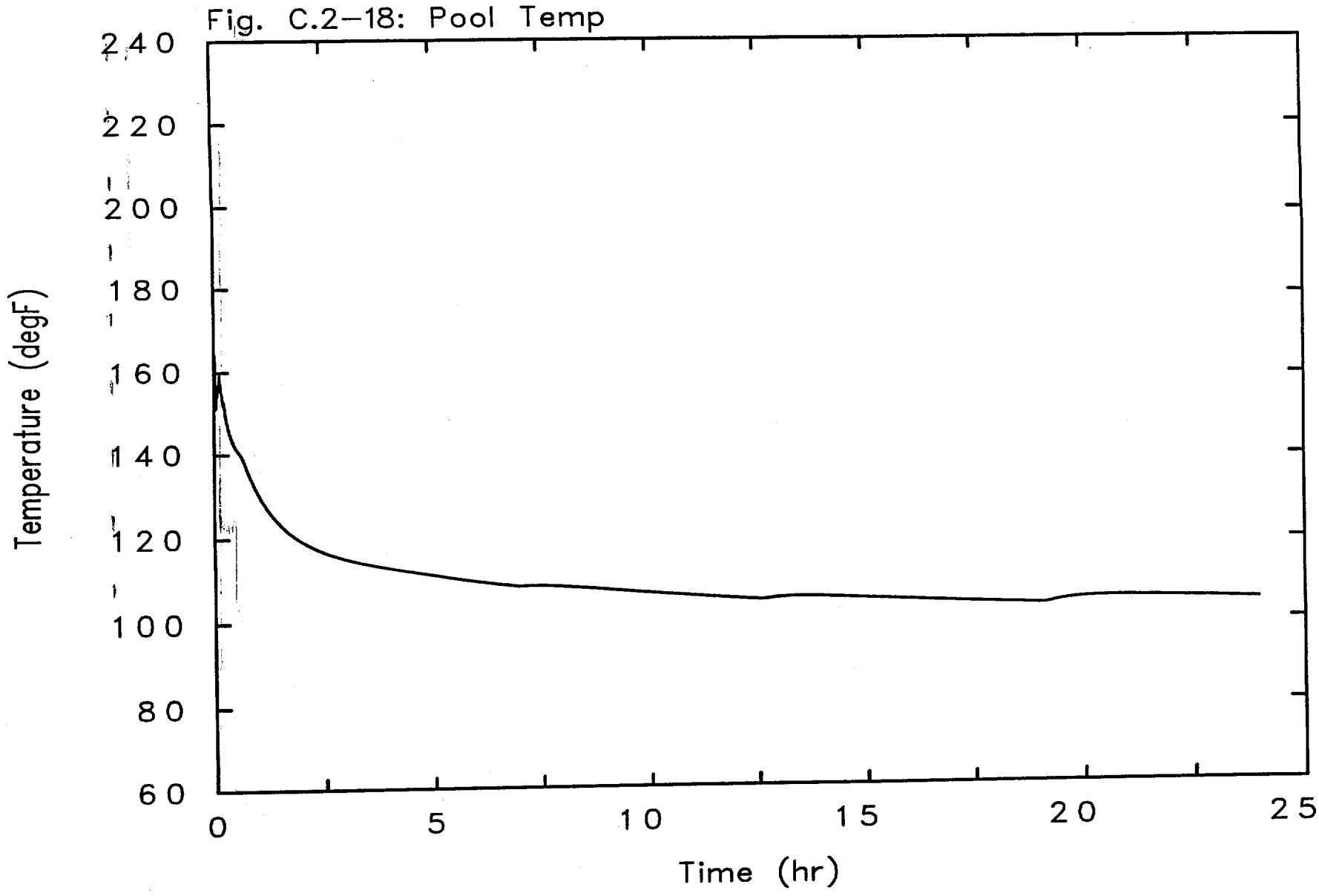
Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
CVH-TVAP.070

Fig. C.2-17: Pool Depth



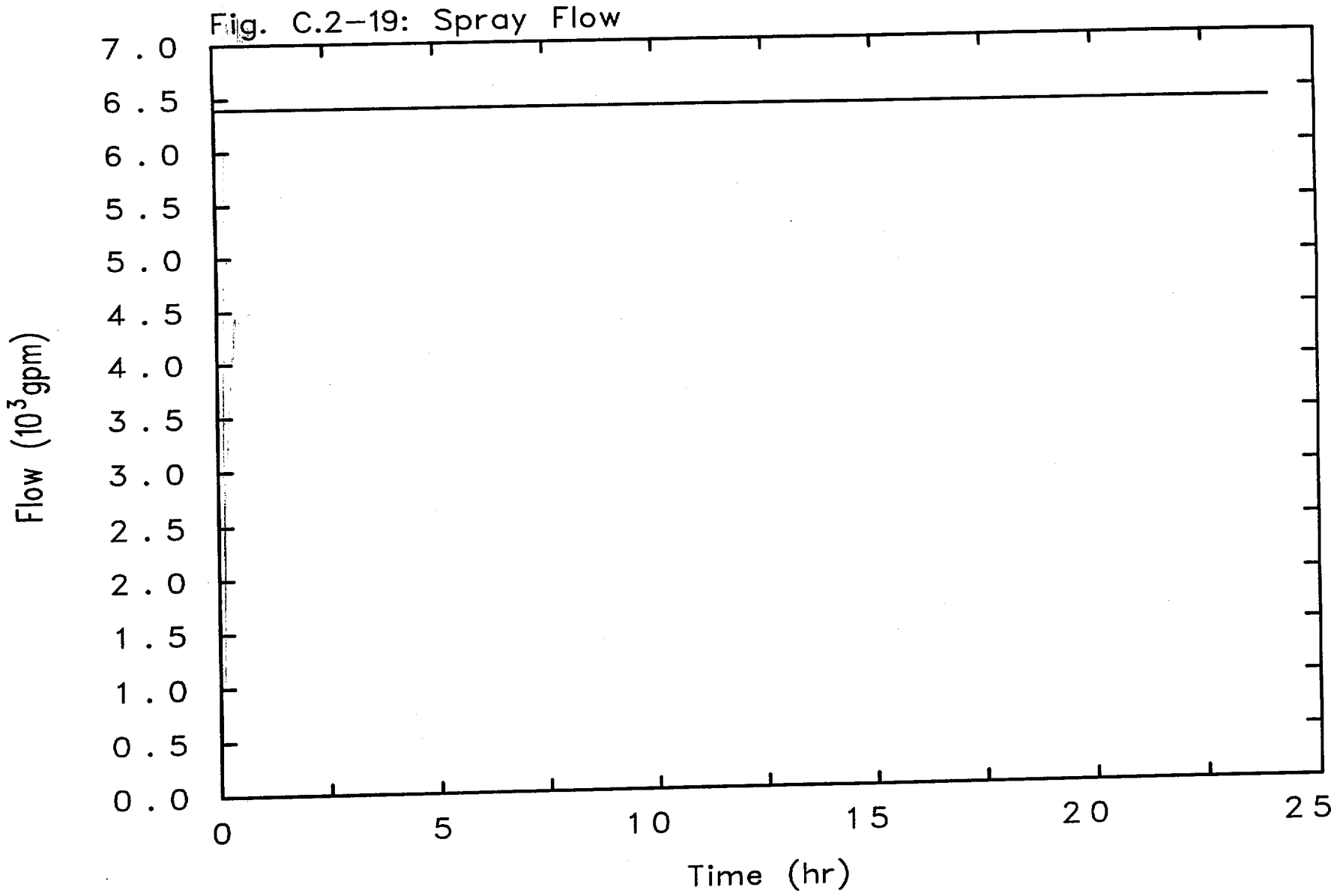
Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
CVH-LIQLEV.020

Fig. C.2-18: Pool Temp



Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
CVH-TLIQ.020

Fig. C.2-19: Spray Flow



Medium LOCA - Ice Condenser Containment
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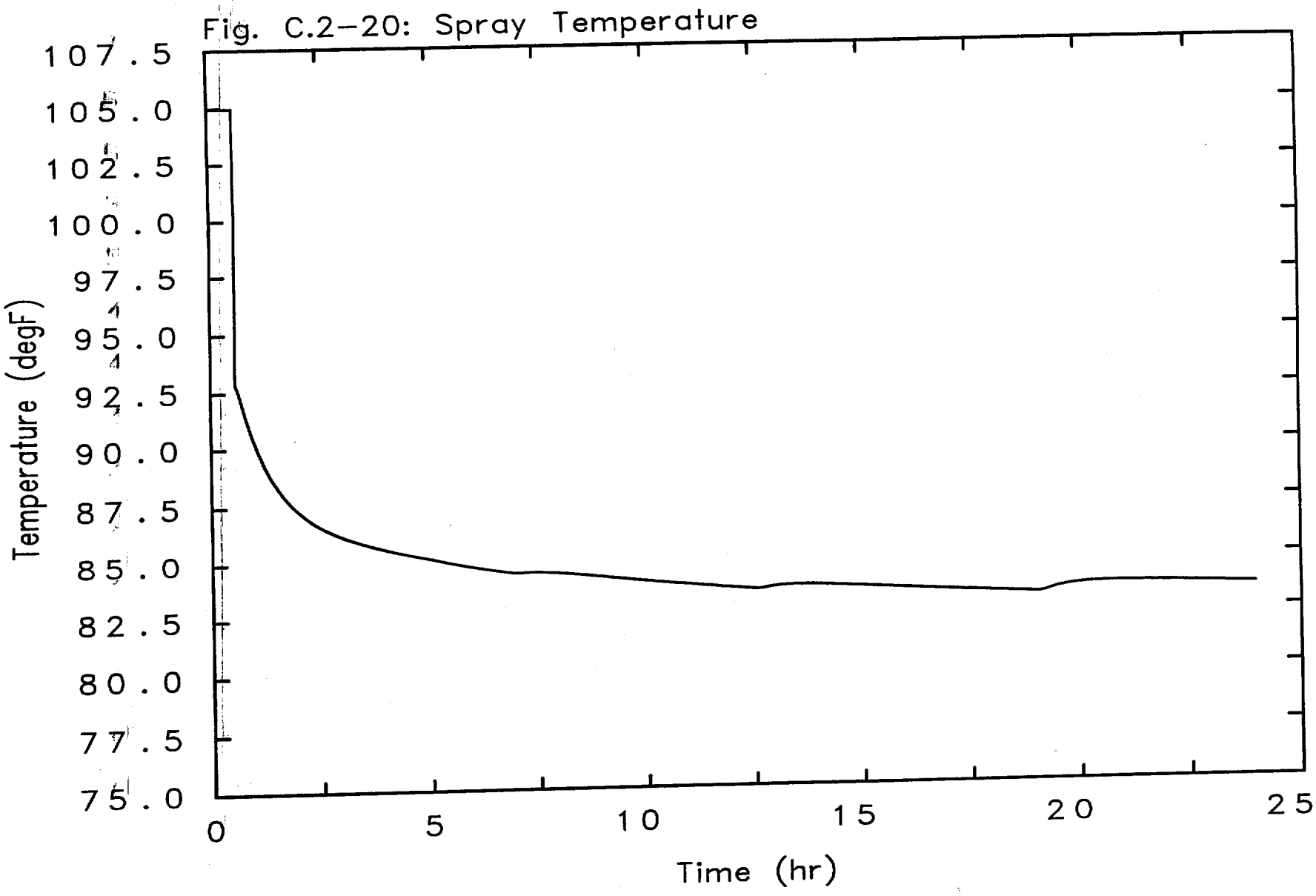
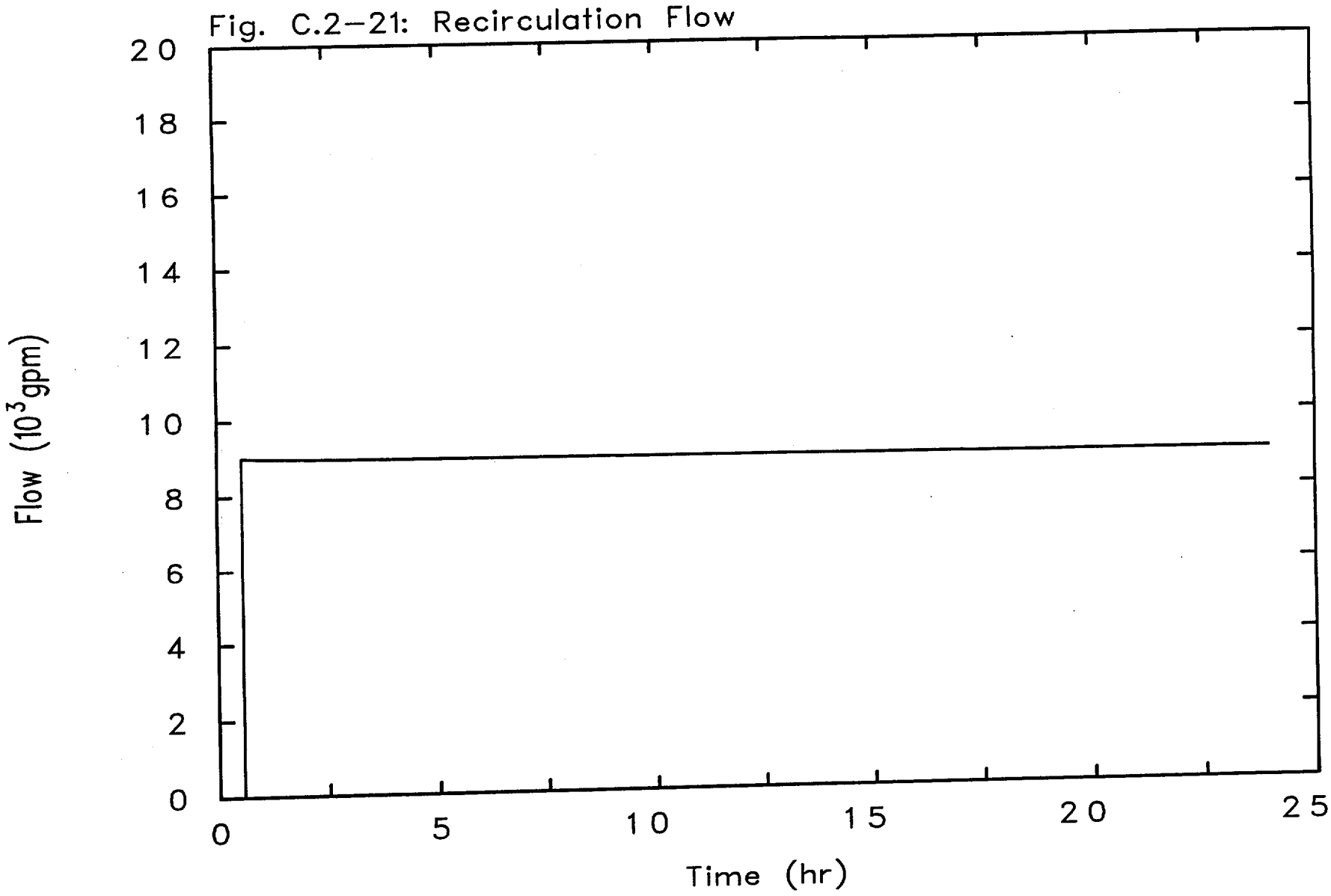
CFVALU.300

Fig. C.2-20: Spray Temperature



Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
CFVALU.304

Fig. C.2-21: Recirculation Flow



Medium LOCA - Ice Condenser Containment
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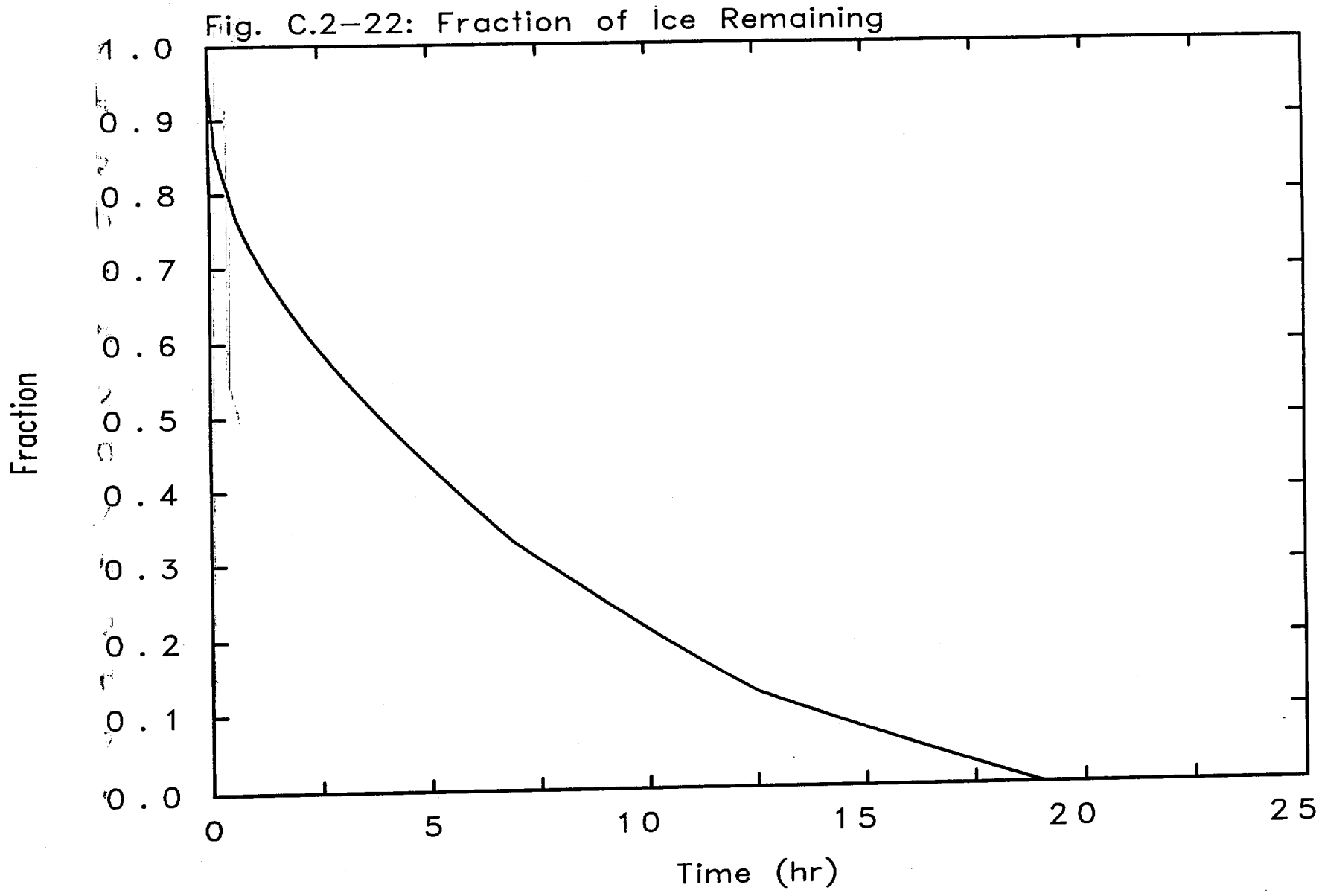
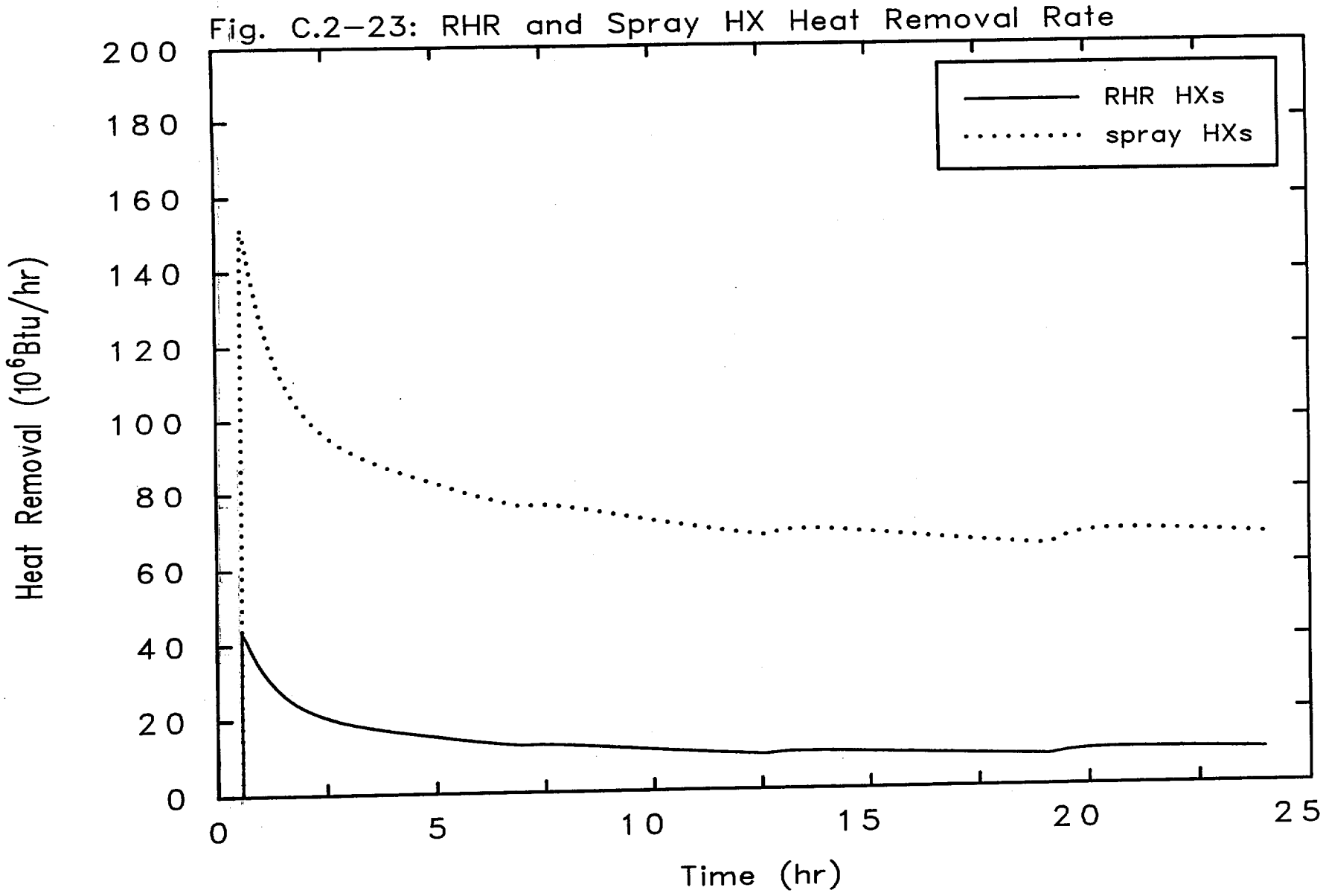
CFVALU.542

Fig. C.2-22: Fraction of Ice Remaining



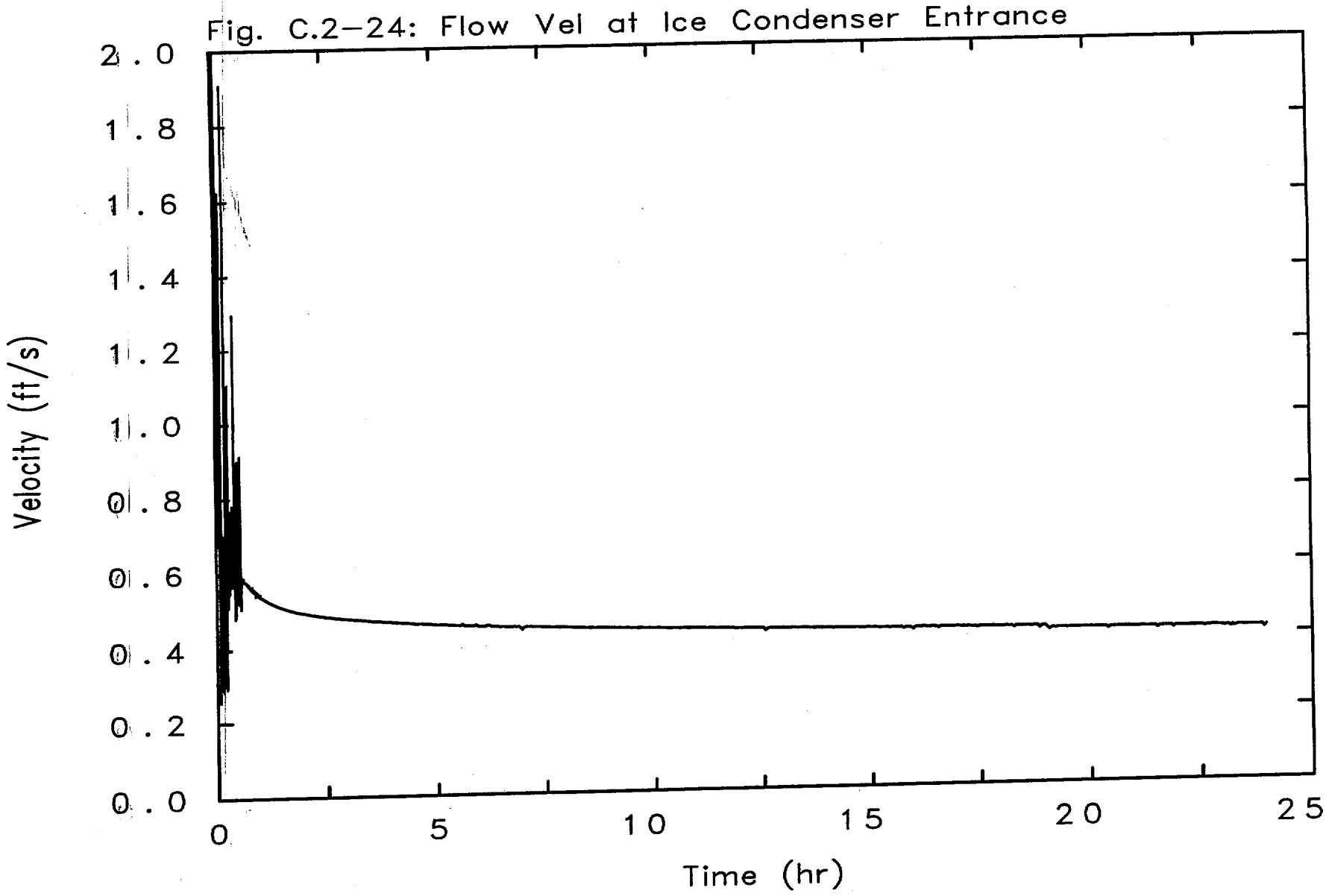
Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
CFVALU.262

Fig. C.2-23: RHR and Spray HX Heat Removal Rate



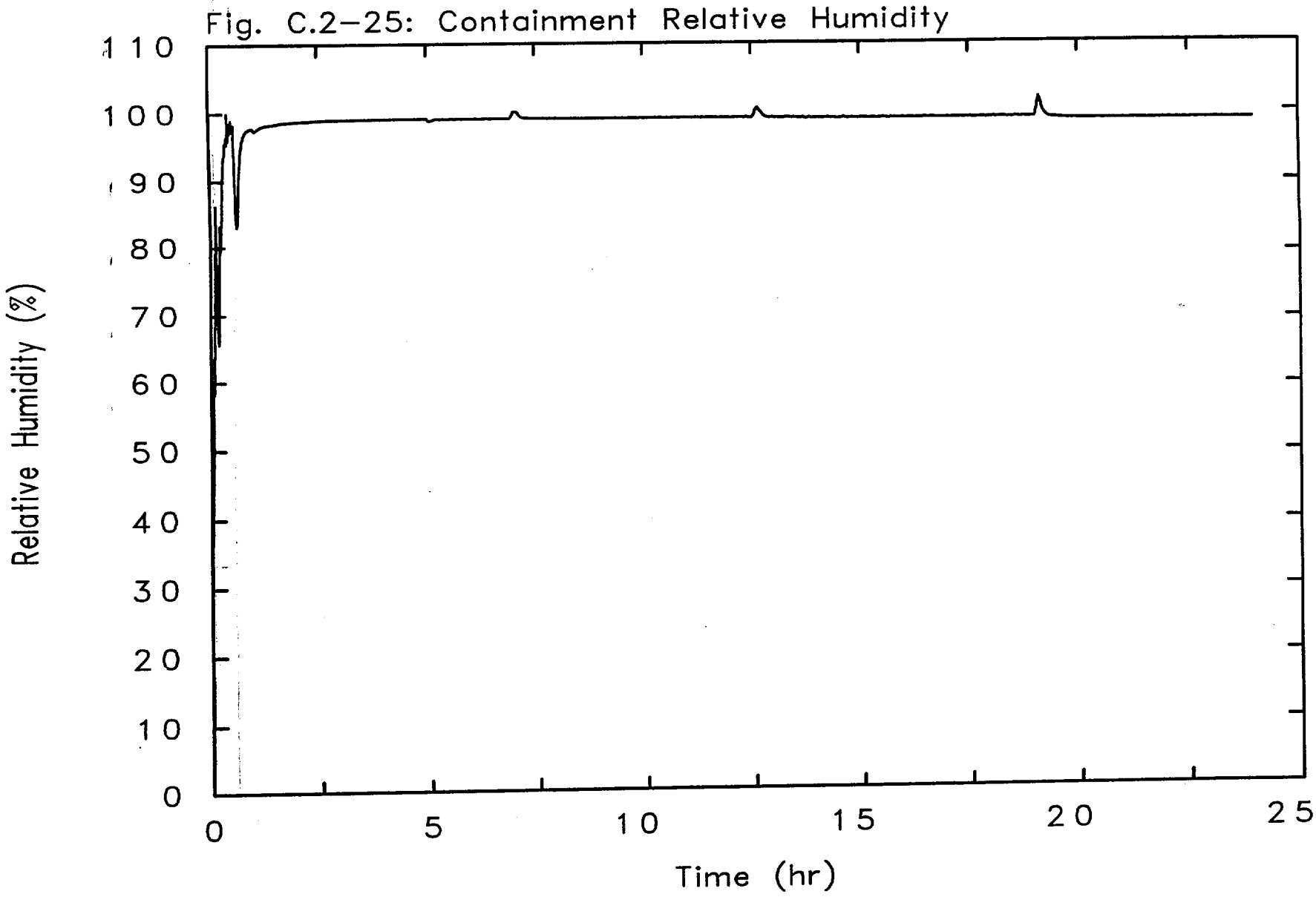
Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC

Fig. C.2-24: Flow Vel at Ice Condenser Entrance



Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC
FL-VELVAP.004

Fig. C.2-25: Containment Relative Humidity



Medium LOCA – Ice Condenser Containment
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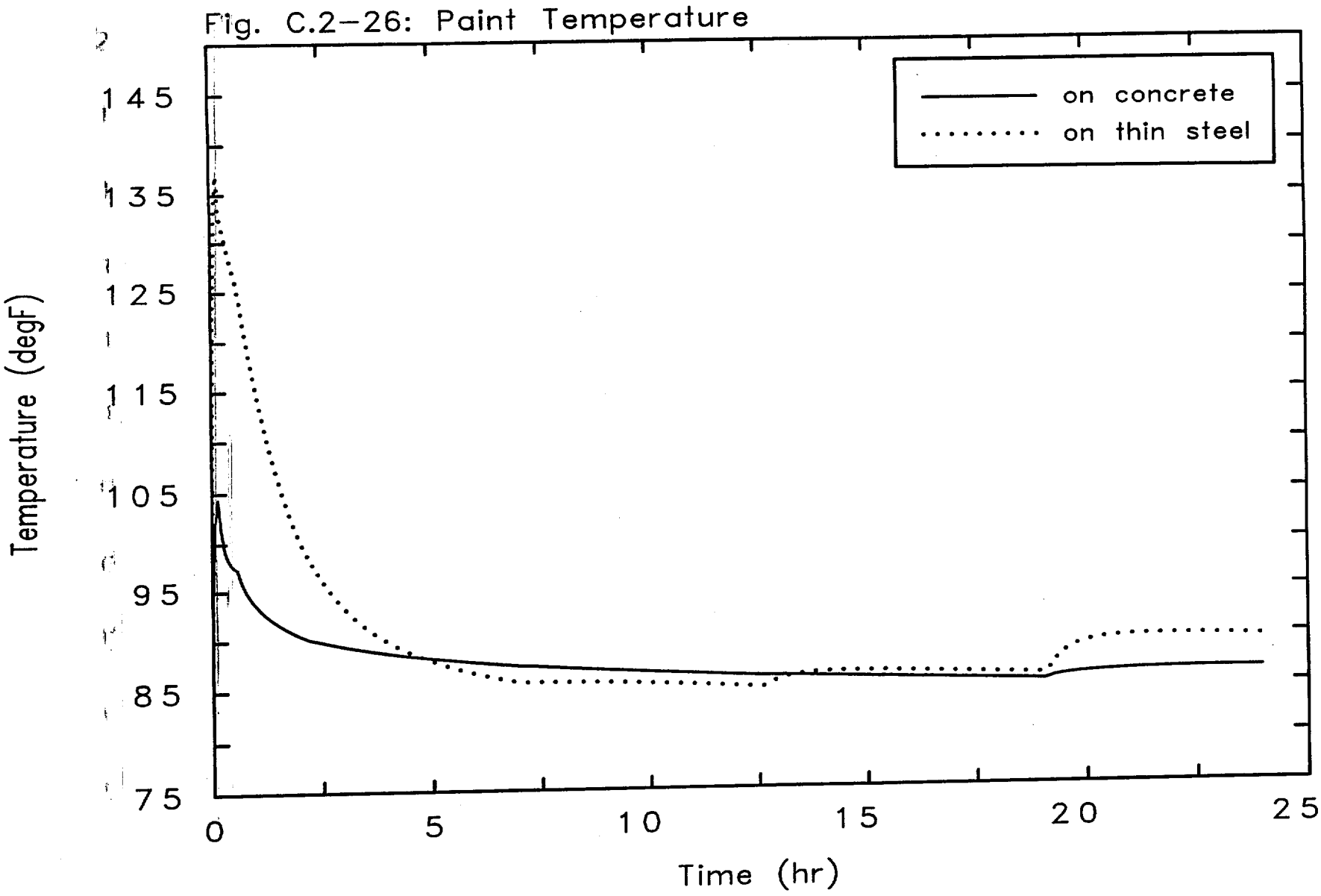
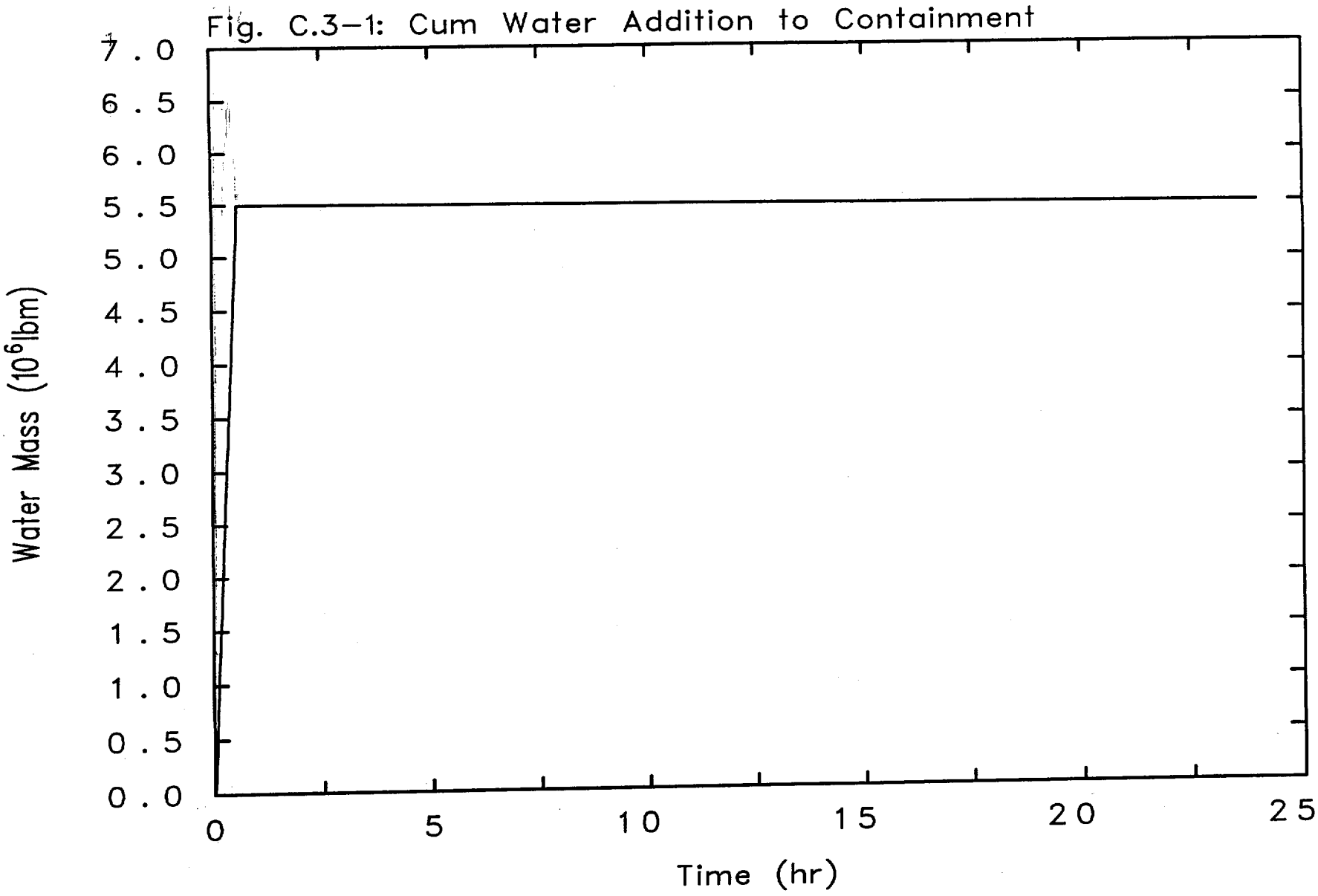
CFVALU.536

Fig. C.2-26: Paint Temperature



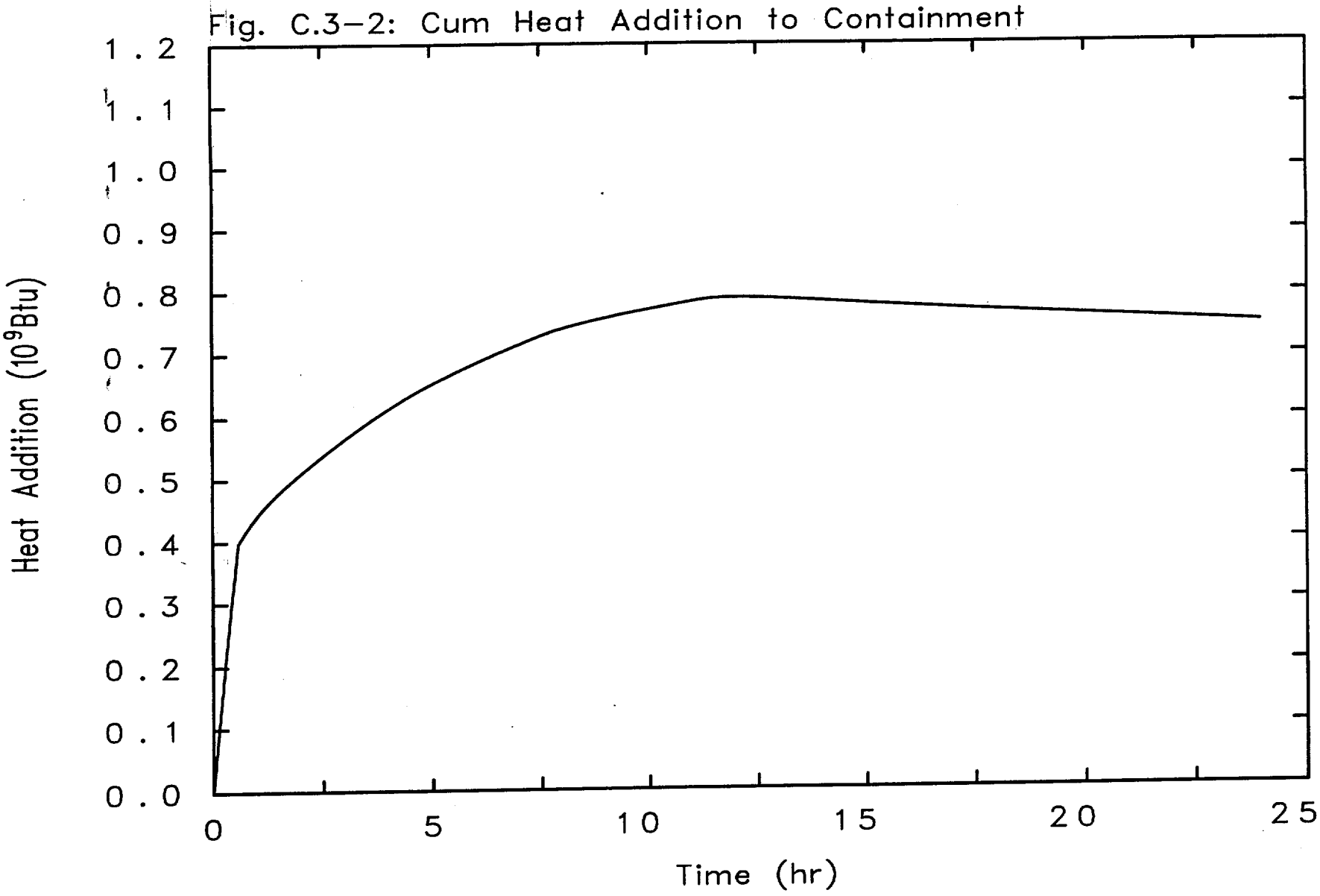
Medium LOCA - Ice Condenser Containment
HWJNCVSNM 08/23/99 13:31:56 MELCOR PC

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



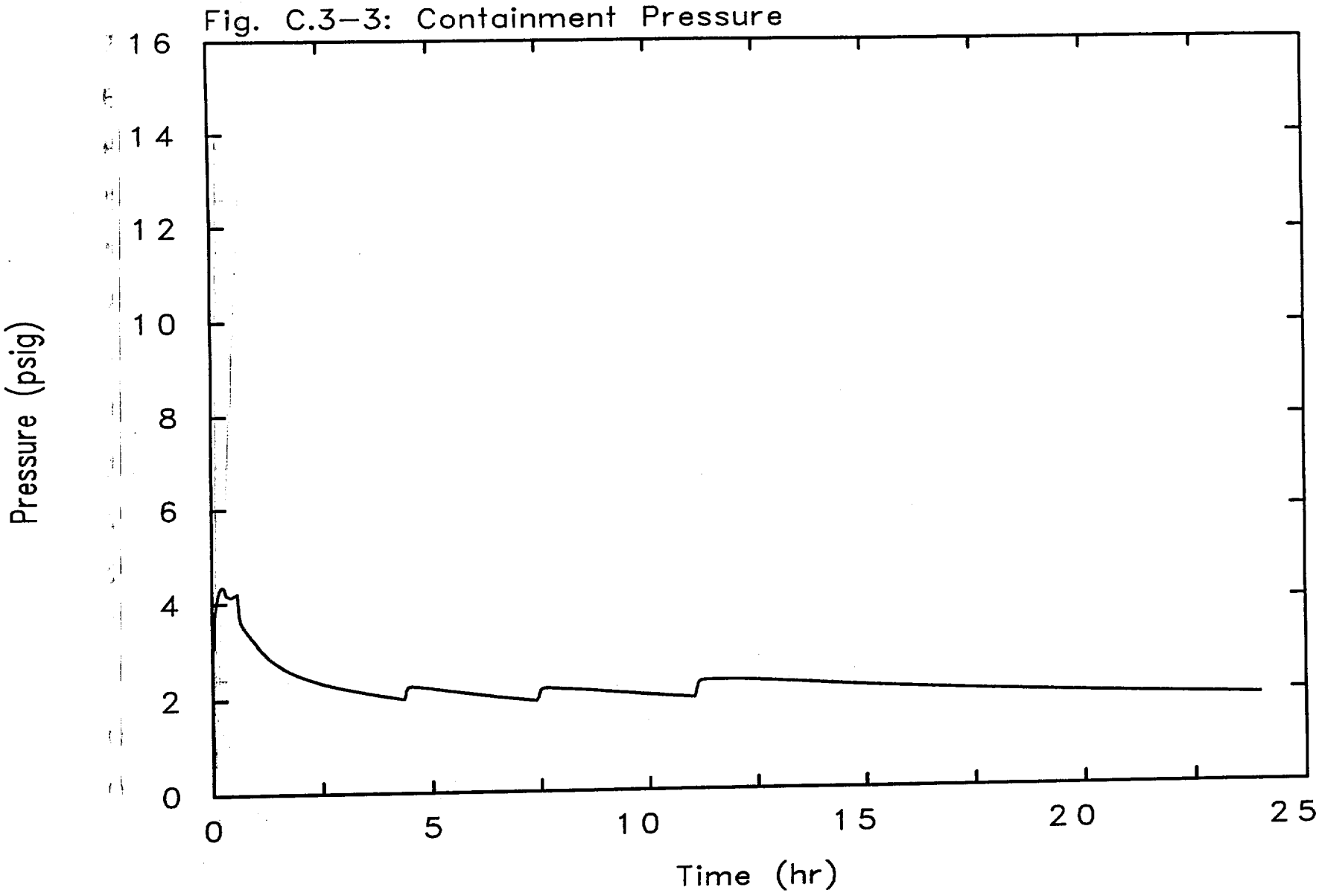
Small LOCA - Ice Condenser Containment
HWJIBVXNM 08/23/99 08:20:45 MELCOR PC
CFVALU.538

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



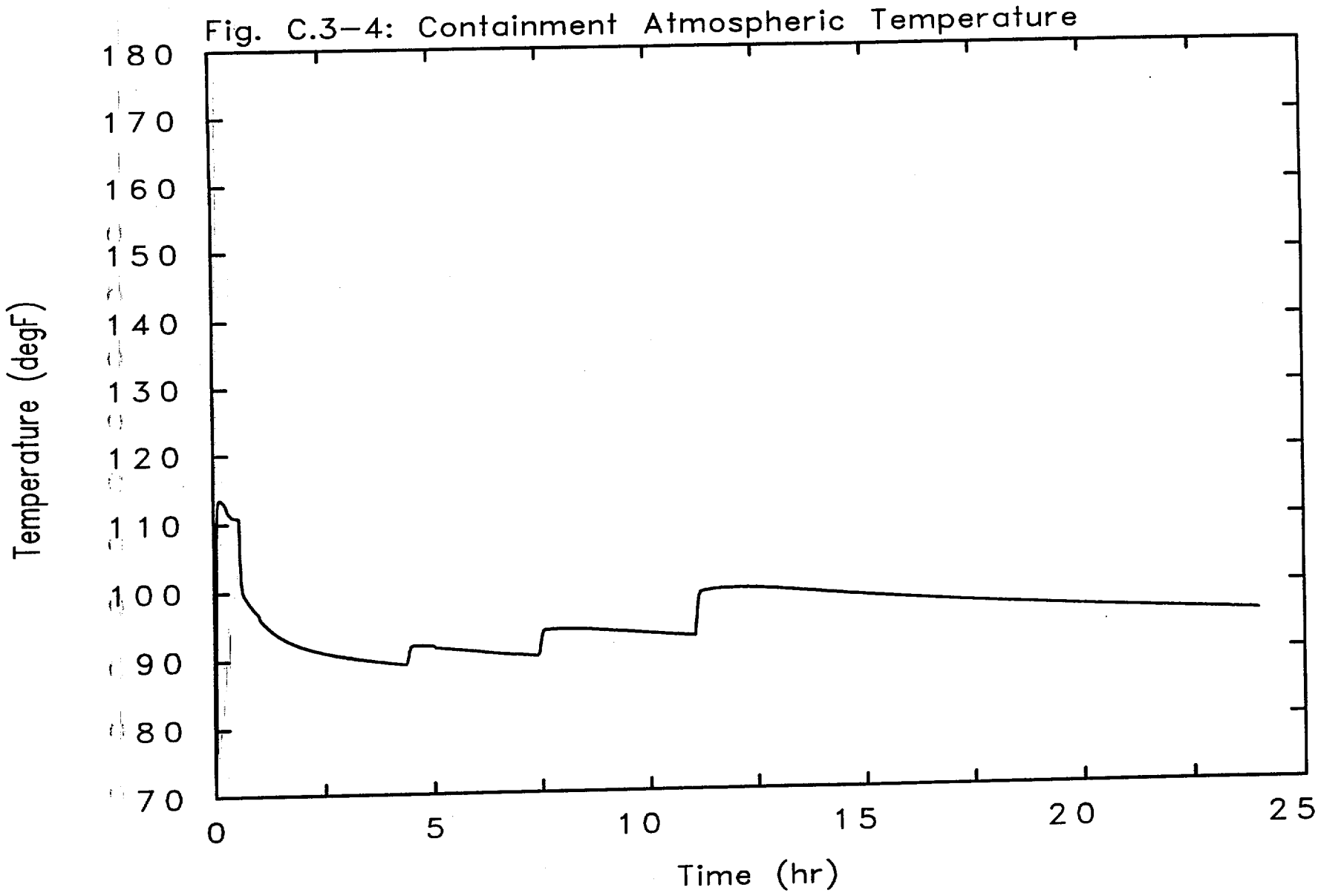
Small LOCA - Ice Condenser Containment
HWJIBVXNM 08/23/99 08:20:45 MELCOR PC
CFVALU.546

Fig. C.3-3: Containment Pressure



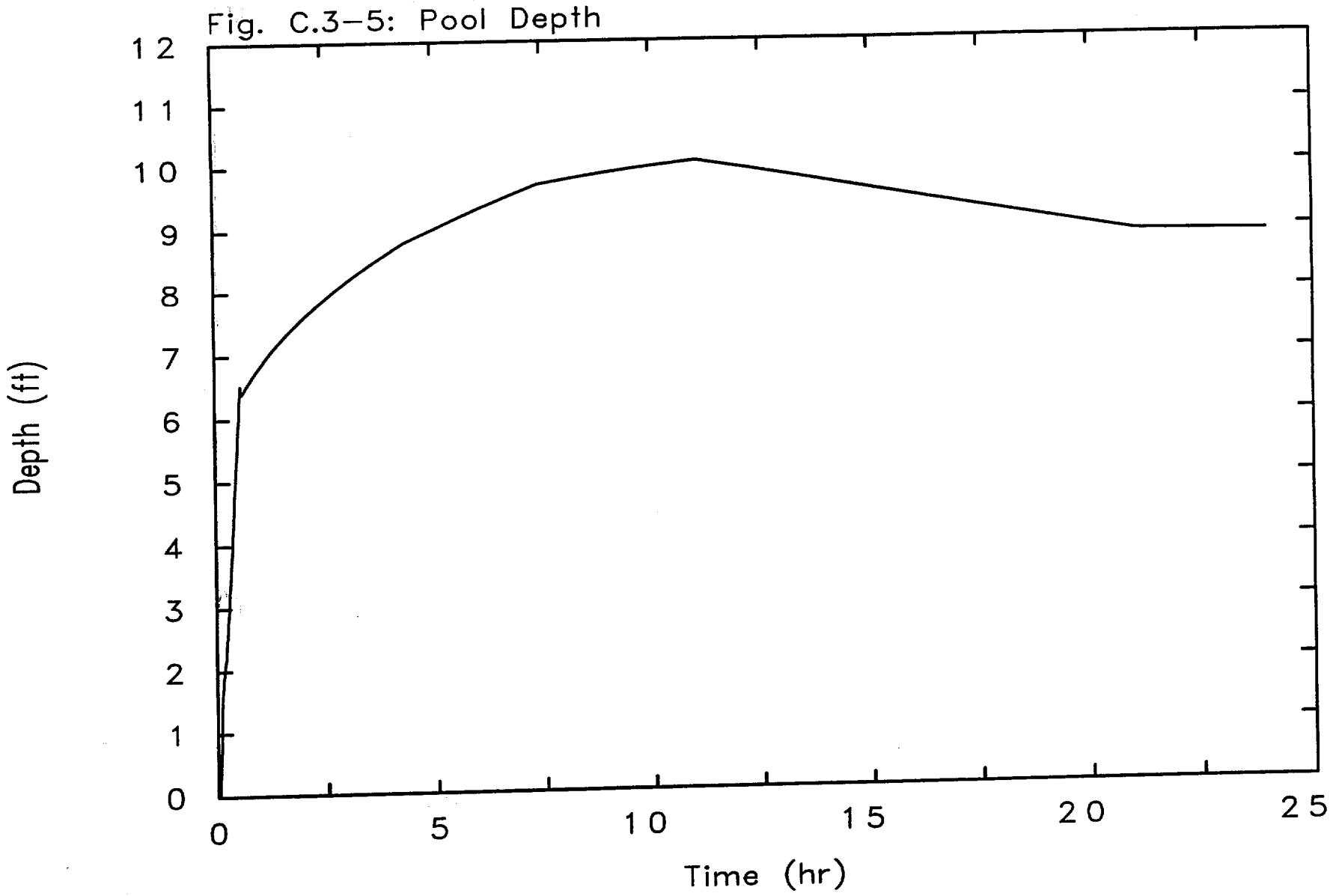
Small LOCA - Ice Condenser Containment
HWJIBVXNM 08/23/99 08:20:45 MELCOR PC
CVH-P.070

Fig. C.3-4: Containment Atmospheric Temperature



Small LOCA - Ice Condenser Containment
HWJIBVXNM 08/23/99 08:20:45 MELCOR PC
CVH-TVAP.070

Fig. C.3-5: Pool Depth



Small LOCA – Ice Condenser Containment
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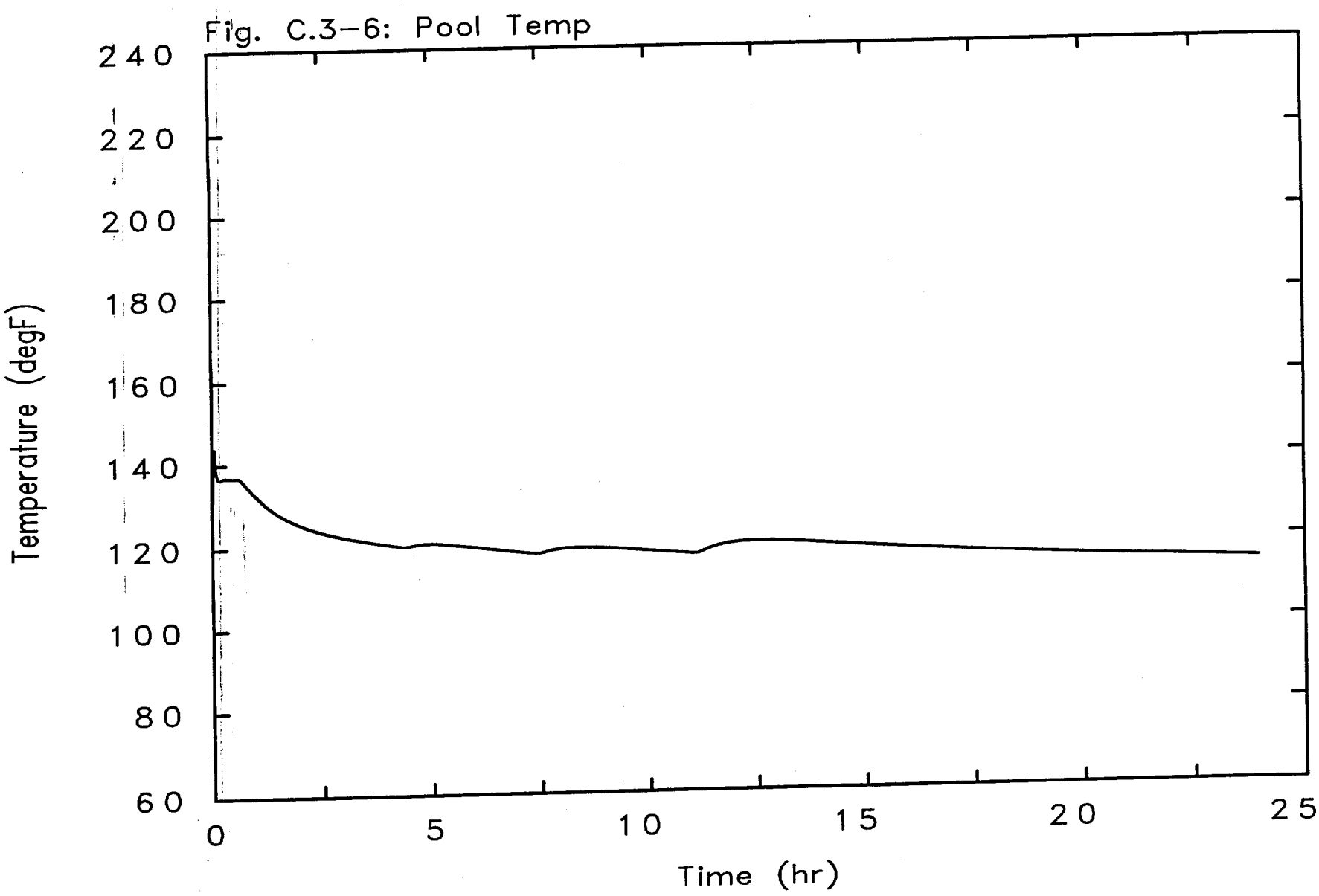

Small LOCA - Ice Condenser Containment
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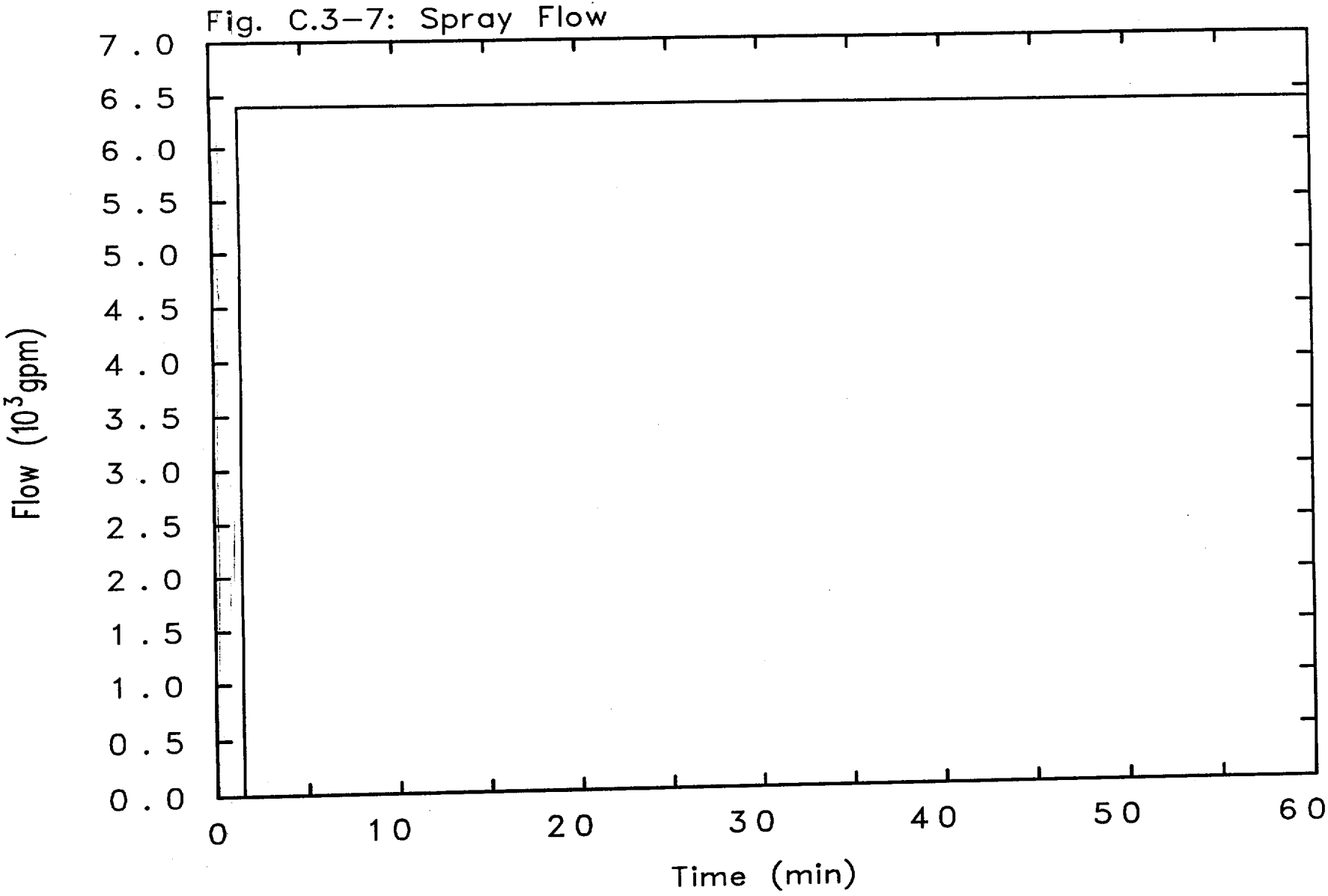
Fig. C.3-7: Spray Flow



Small LOCA – Ice Condenser Containment
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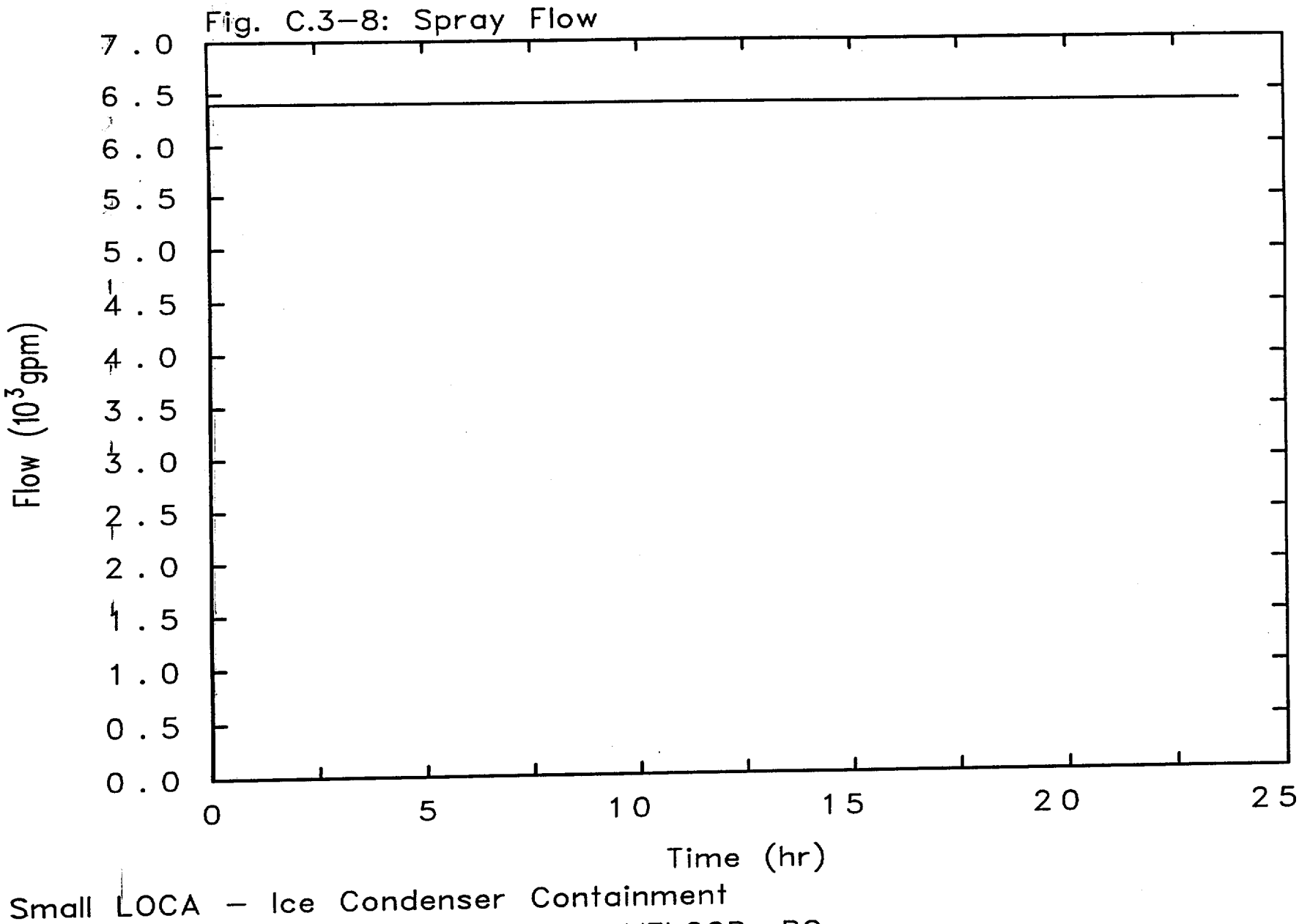
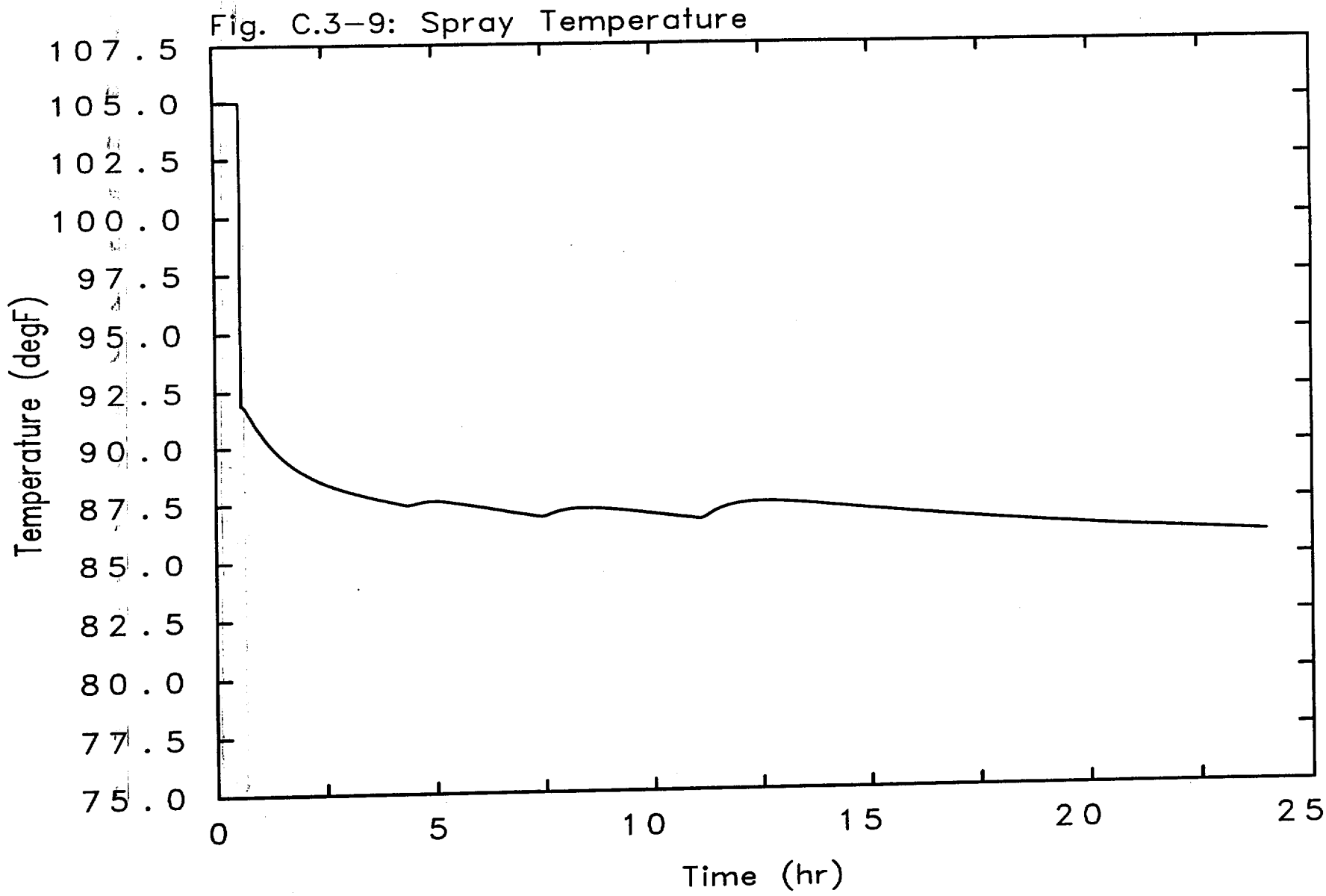
CFVALU.300

Fig. C.3-8: Spray Flow



Small LOCA – Ice Condenser Containment
HWJIBVXNM 08/23/99 08:20:45 MELCOR PC
CFVALU.300

Fig. C.3-9: Spray Temperature



Small LOCA - Ice Condenser Containment
HWJIBVXNM 08/23/99 08:20:45 MELCOR PC
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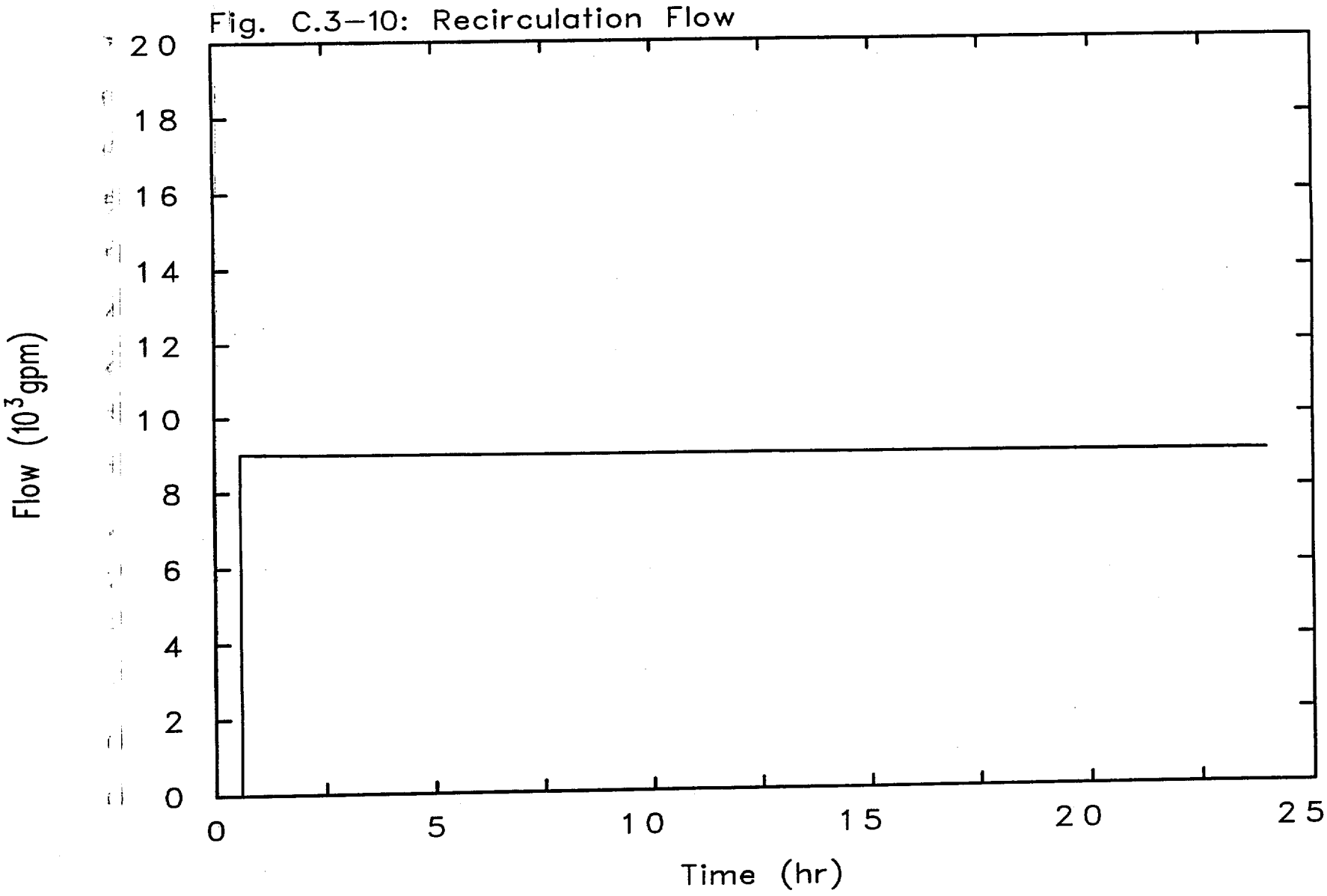
Fig. C.3–10: Recirculation Flow



Small LOCA – Ice Condenser Containment
HWJIBVXNM 08/23/99 08:20:45 MELCOR PC
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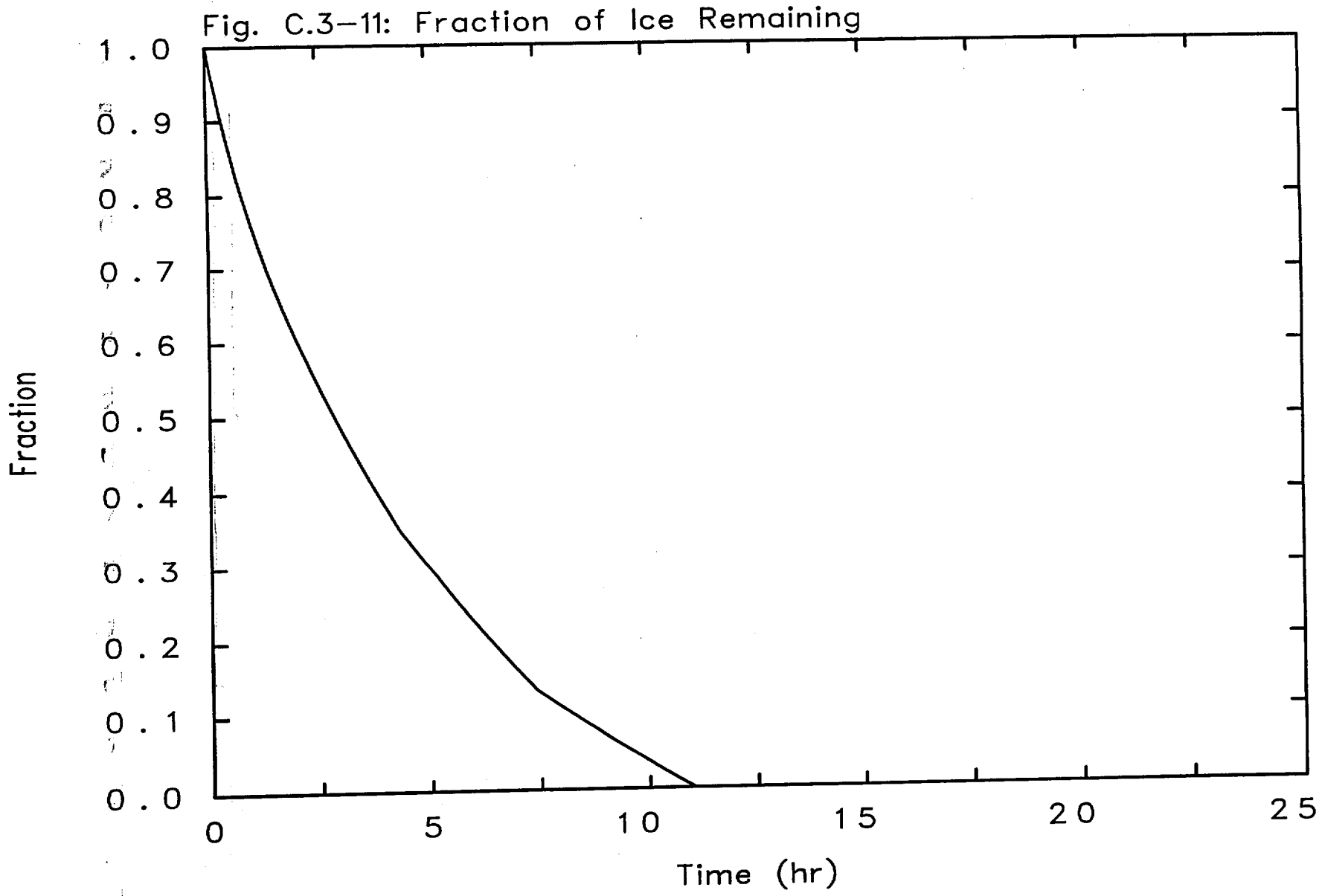
Fig. C.3-11: Fraction of Ice Remaining



Small LOCA - Ice Condenser Containment
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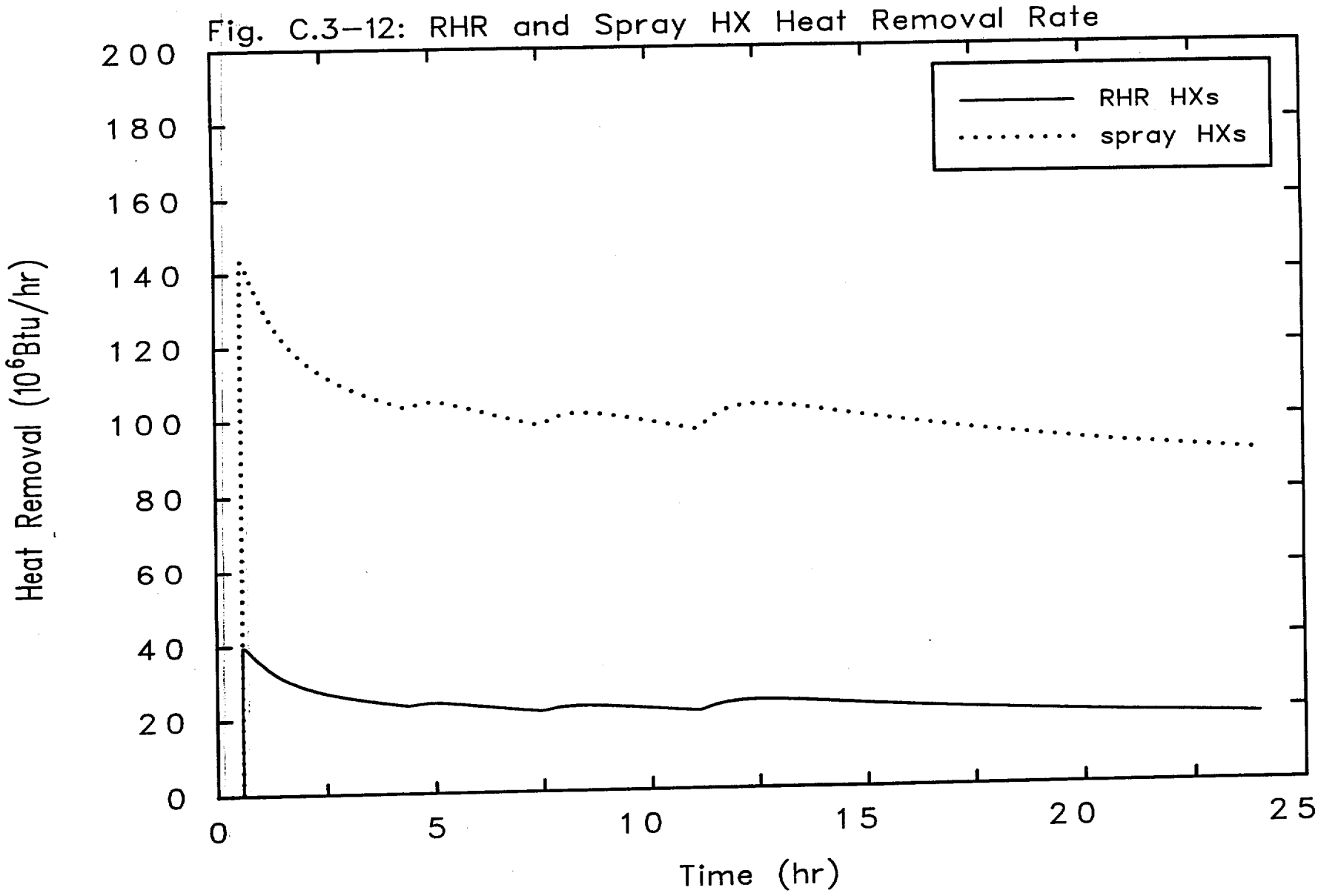
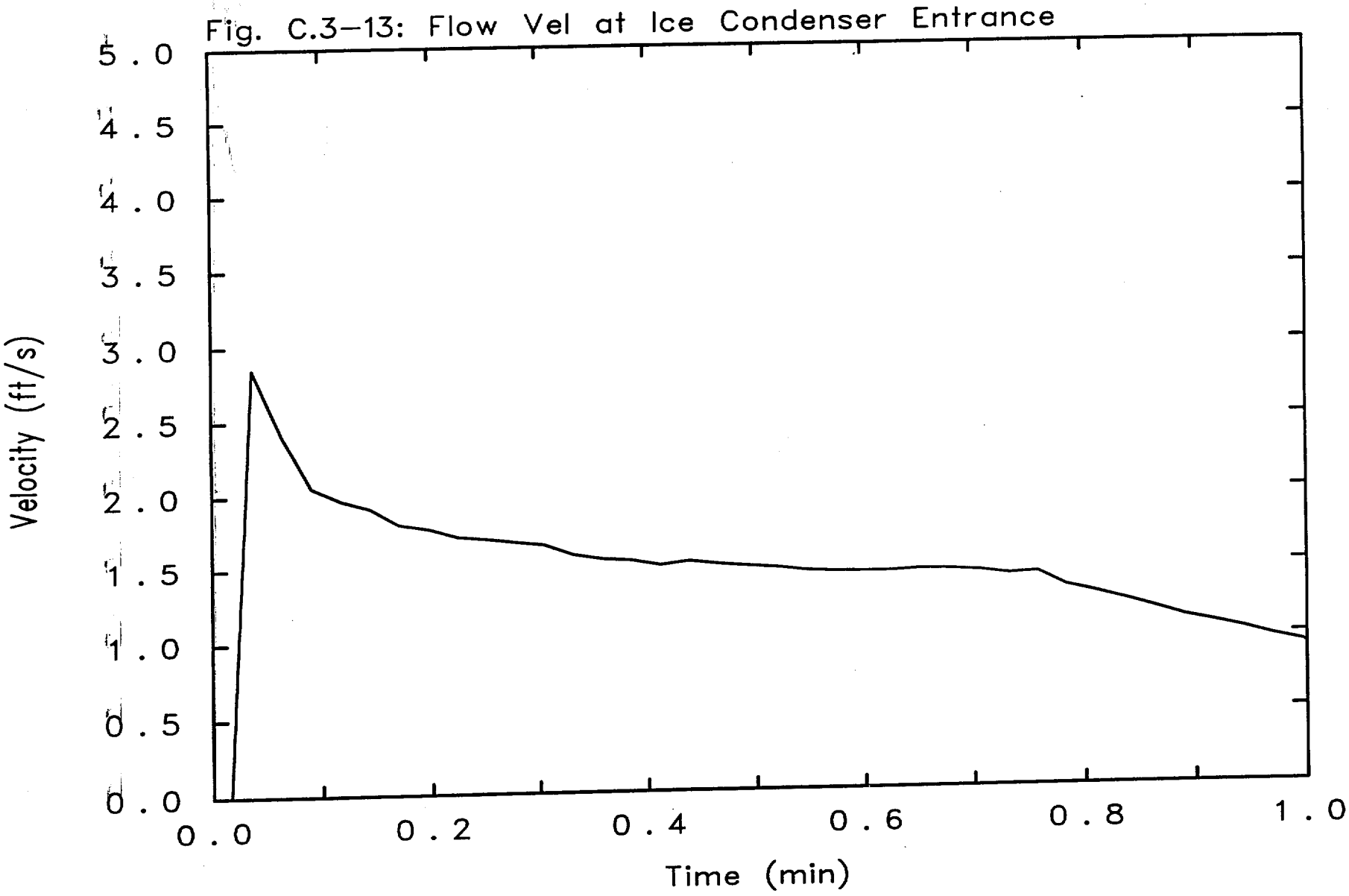
Fig. C.3-12: RHR and Spray HX Heat Removal Rate



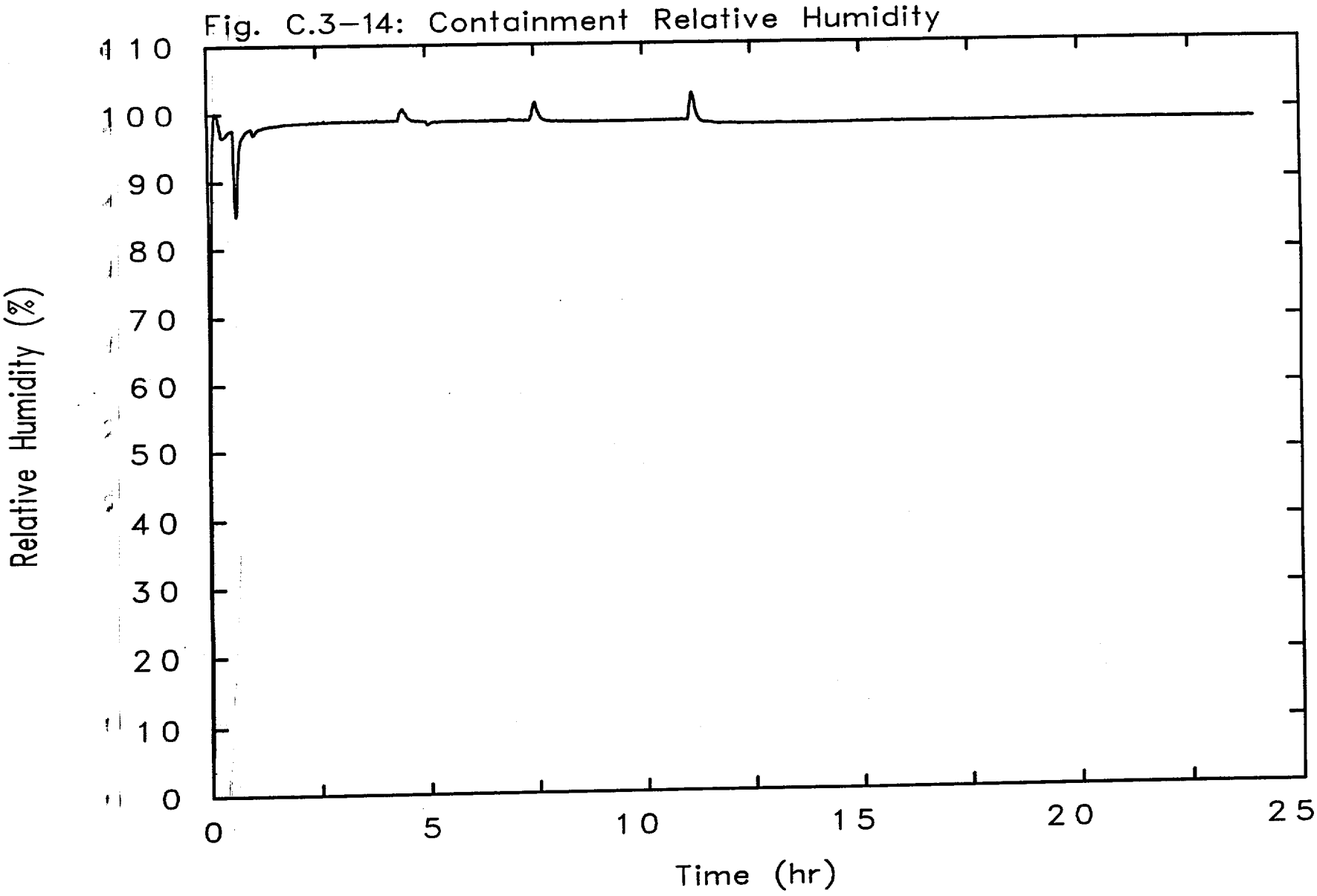
Small LOCA – Ice Condenser Containment
HWJIBVXNM 08/23/99 08:20:45 MELCOR PC

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



Small LOCA - Ice Condenser Containment
HWJIBVXNM 08/23/99 08:20:45 MELCOR PC
FL-VELVAP.004

Fig. C.3-14: Containment Relative Humidity



Small LOCA - Ice Condenser Containment
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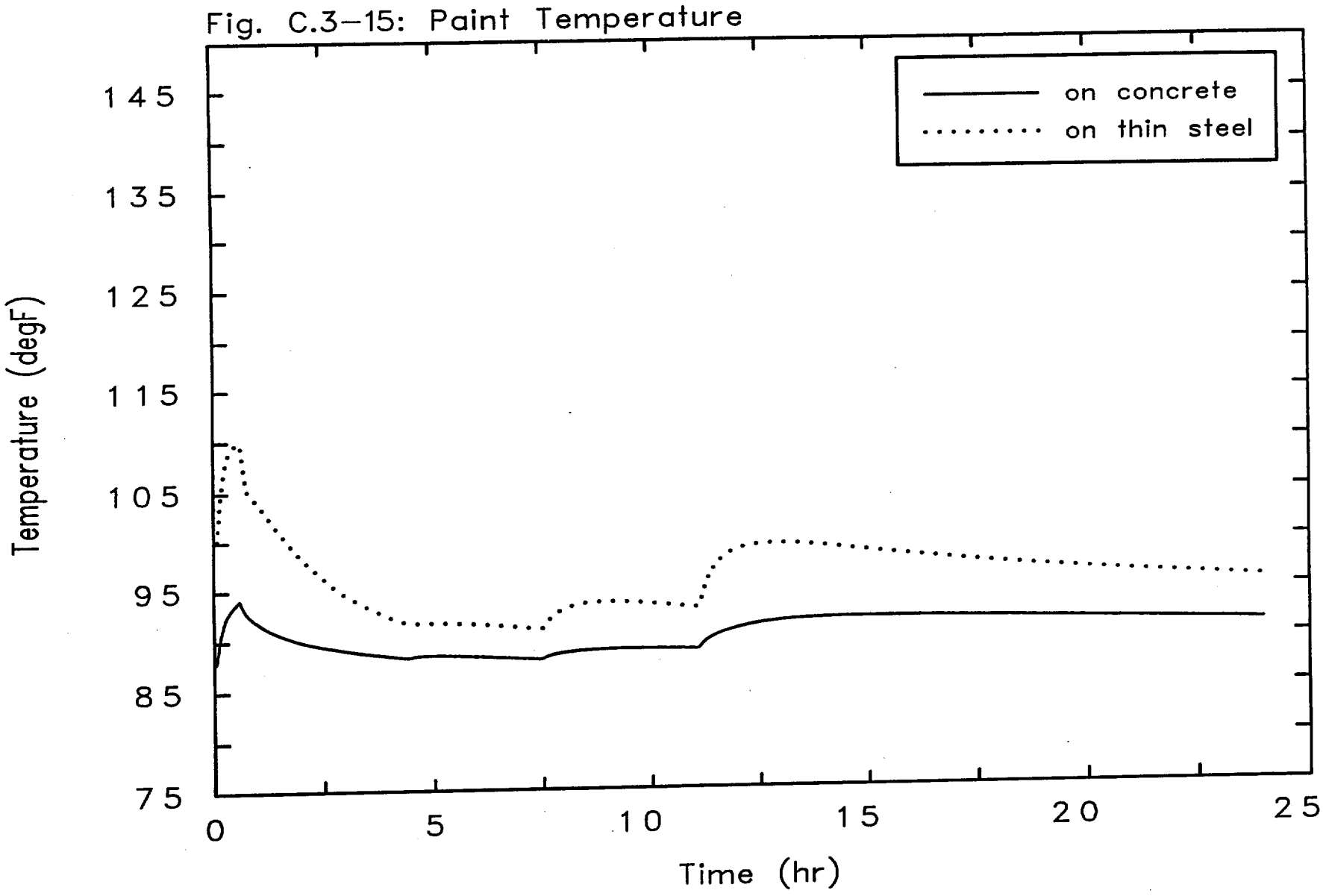
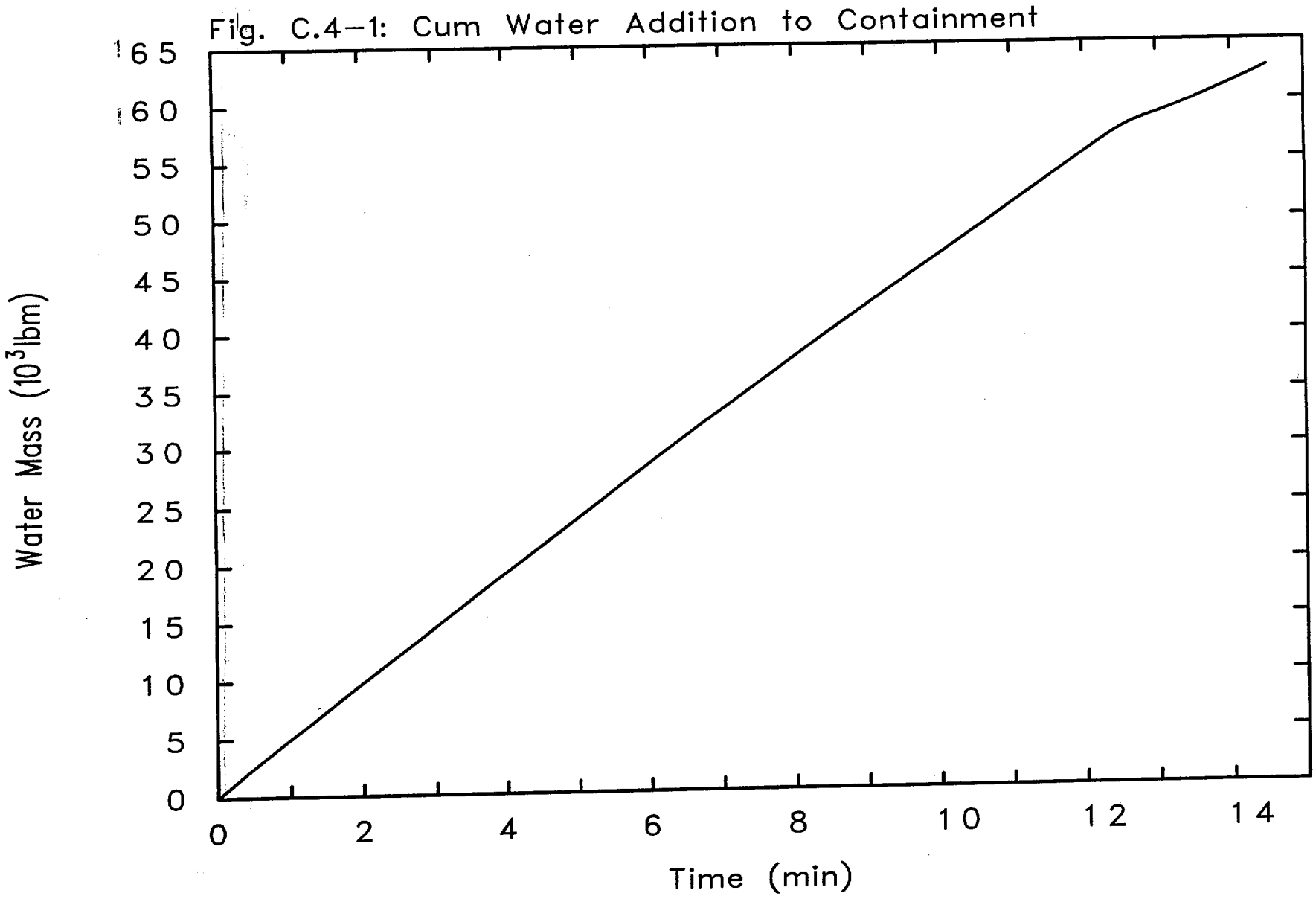
Fig. C.3-15: Paint Temperature



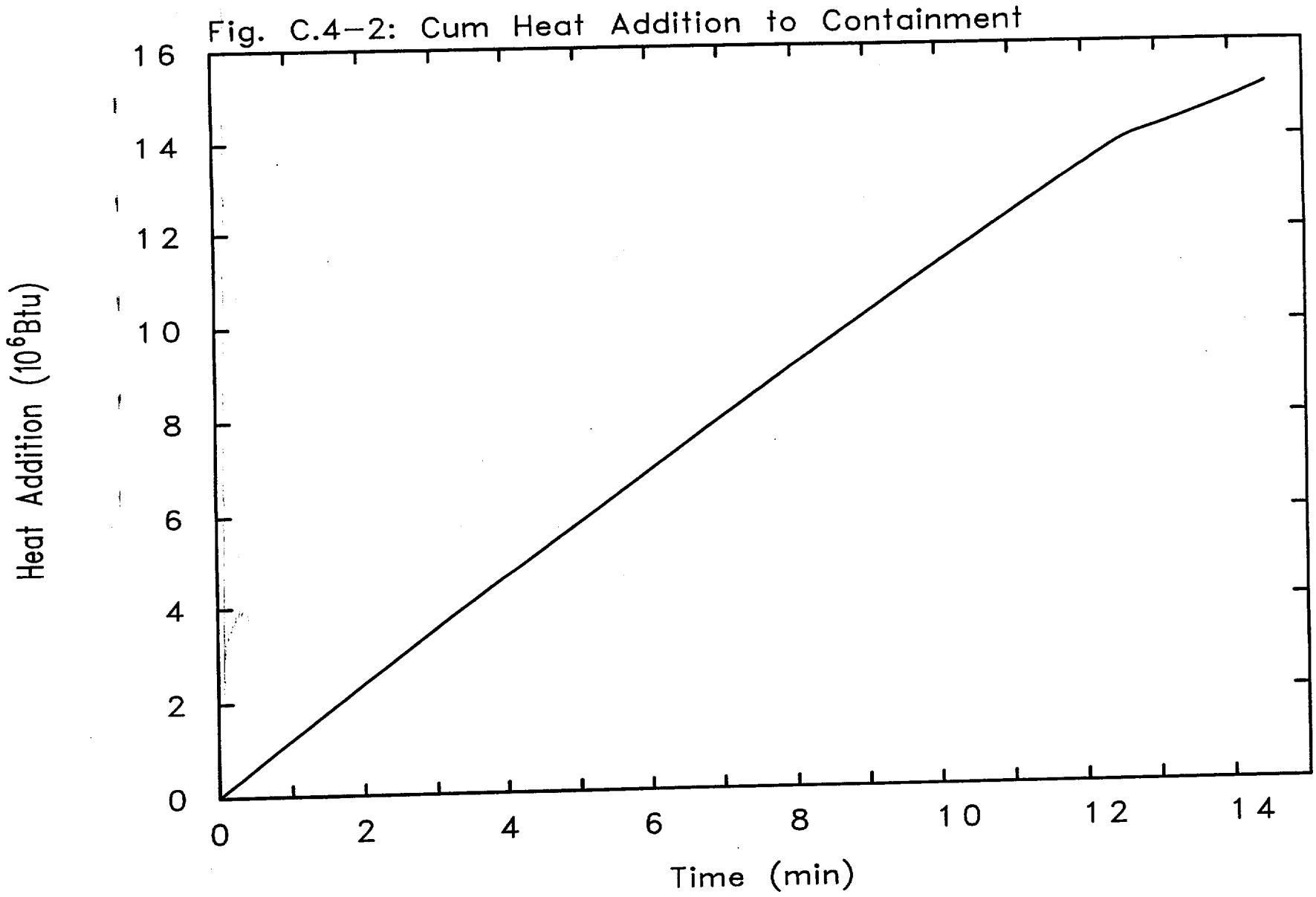
Small LOCA - Ice Condenser Containment
HWJIBVXNM 08/23/99 08:20:45 MELCOR PC

Fig. C.4-1: Cum Water Addition to Containment



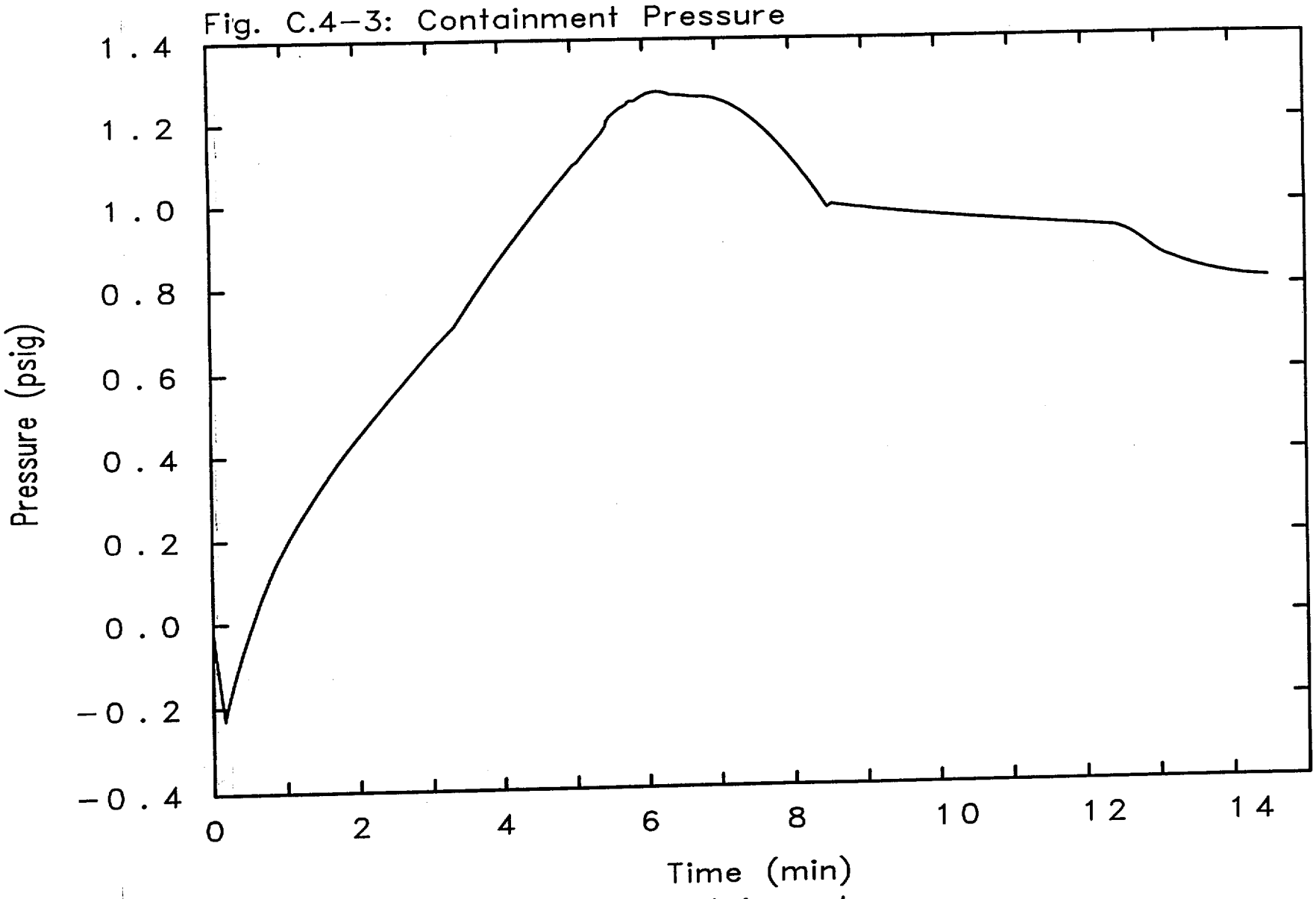
Small-Small LOCA - Ice Condenser Containment
HXJNAUDNM 08/24/99 13:08:43 MELCOR PC
CFVALU.538

Fig. C.4-2: Cum Heat Addition to Containment



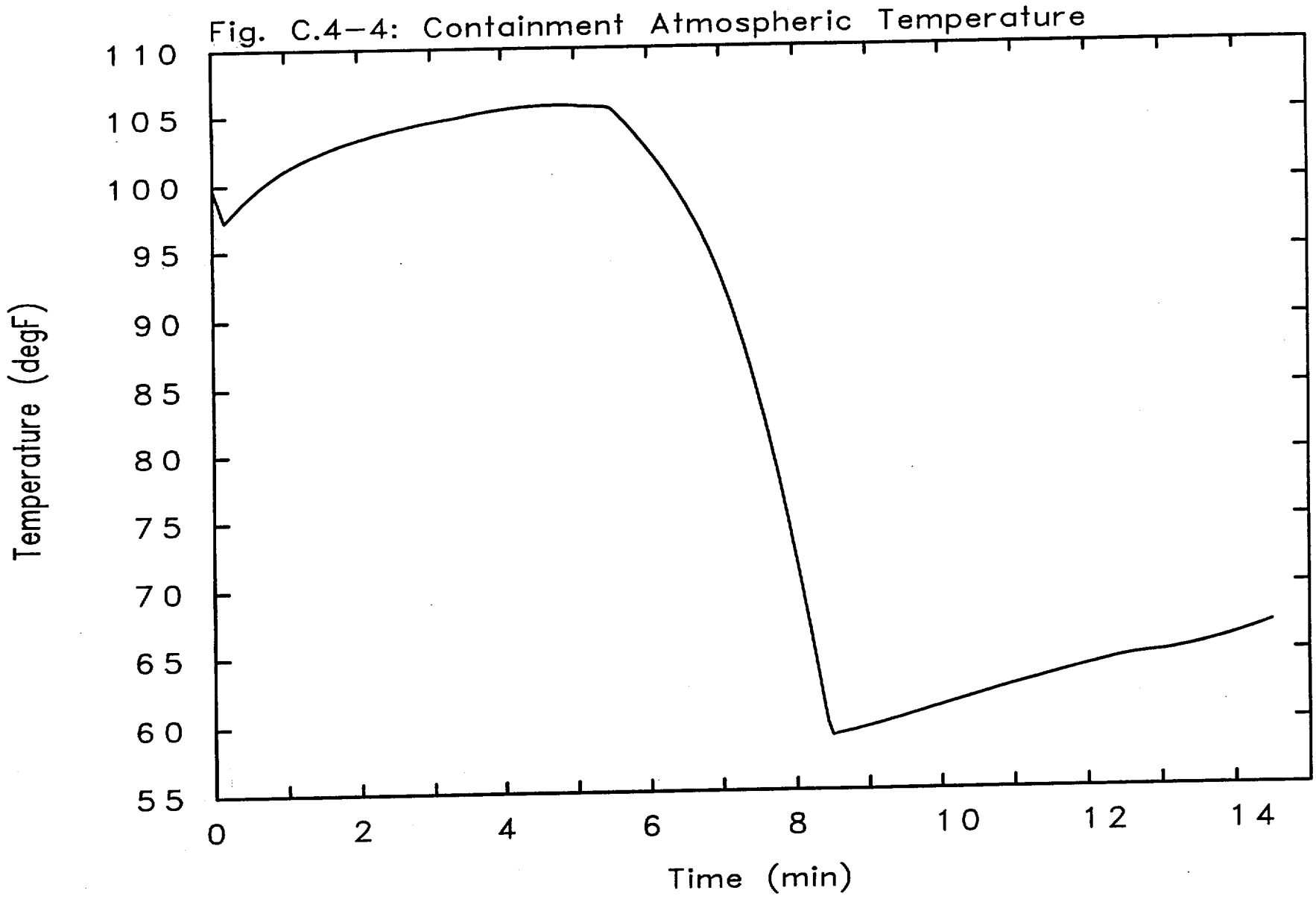
Small-Small LOCA - Ice Condenser Containment
HXJNAUDNM 08/24/99 13:08:43 MELCOR PC
CFVALU.546

Fig. C.4-3: Containment Pressure



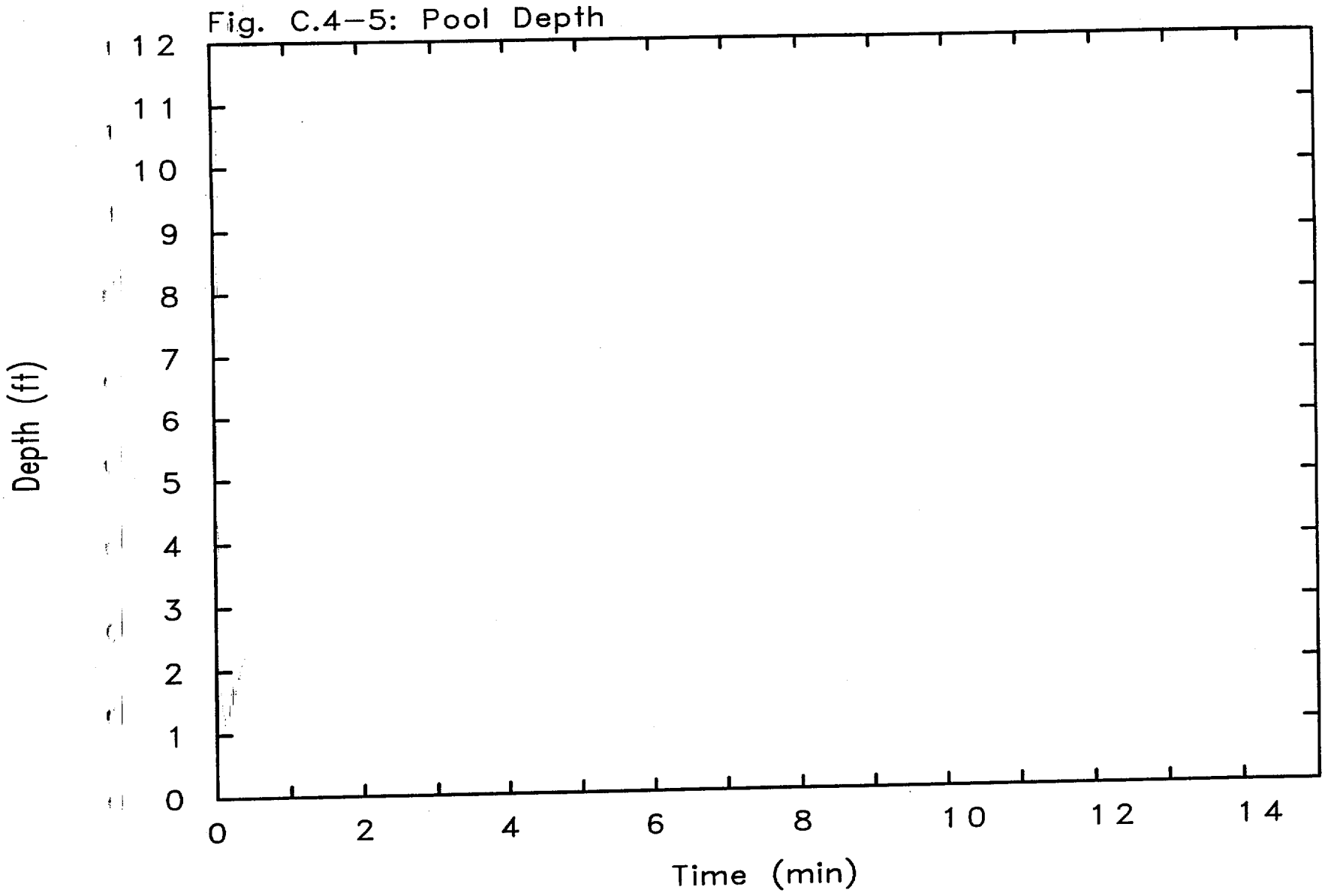
Small-Small LOCA - Ice Condenser Containment
HXJNAUDNM 08/24/99 13:08:43 MELCOR PC
CVH-P.070

Fig. C.4-4: Containment Atmospheric Temperature



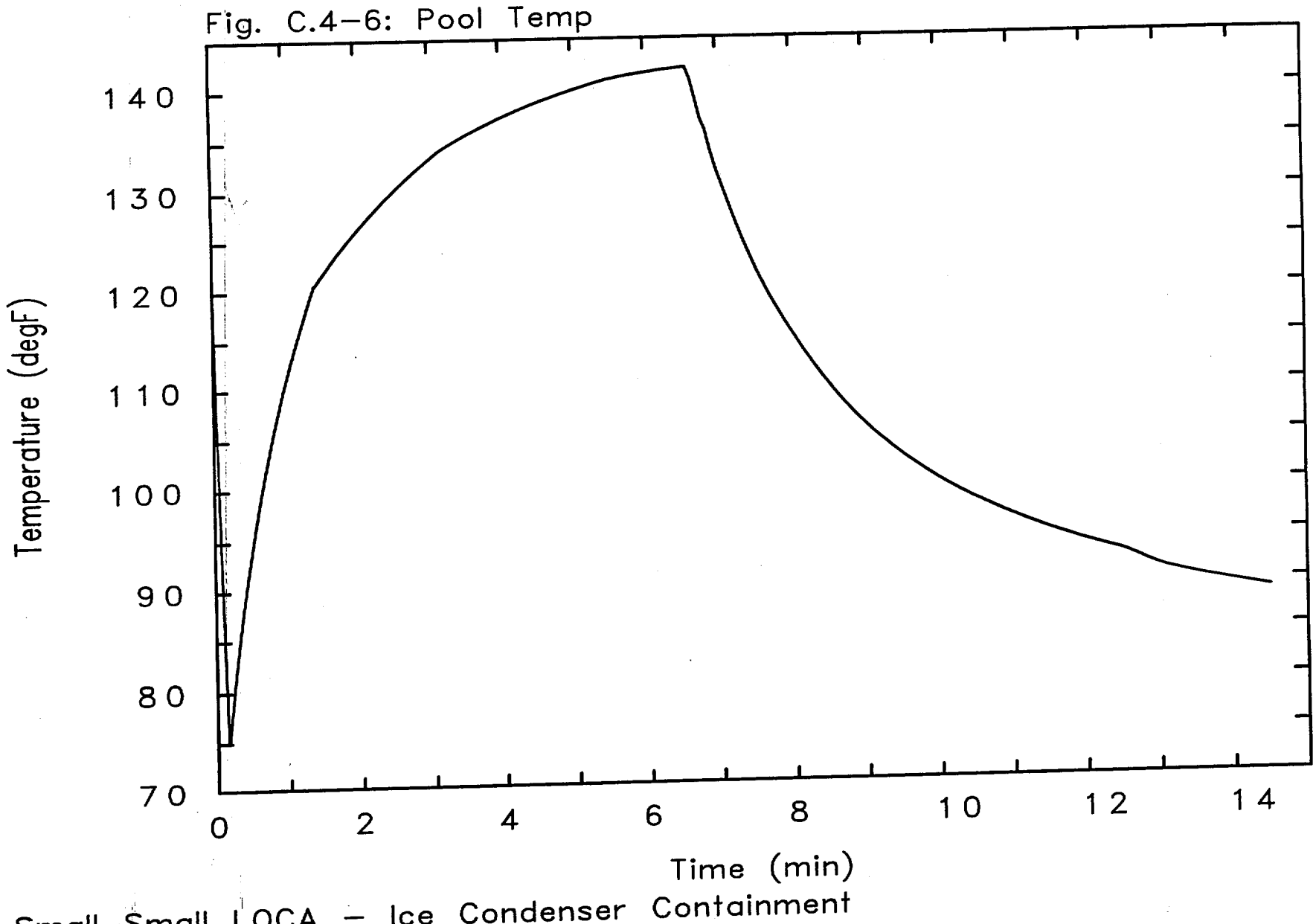
Small-Small LOCA - Ice Condenser Containment
HXJNAUDNM 08/24/99 13:08:43 MELCOR PC
CVH-TVAP.070

Fig. C.4-5: Pool Depth



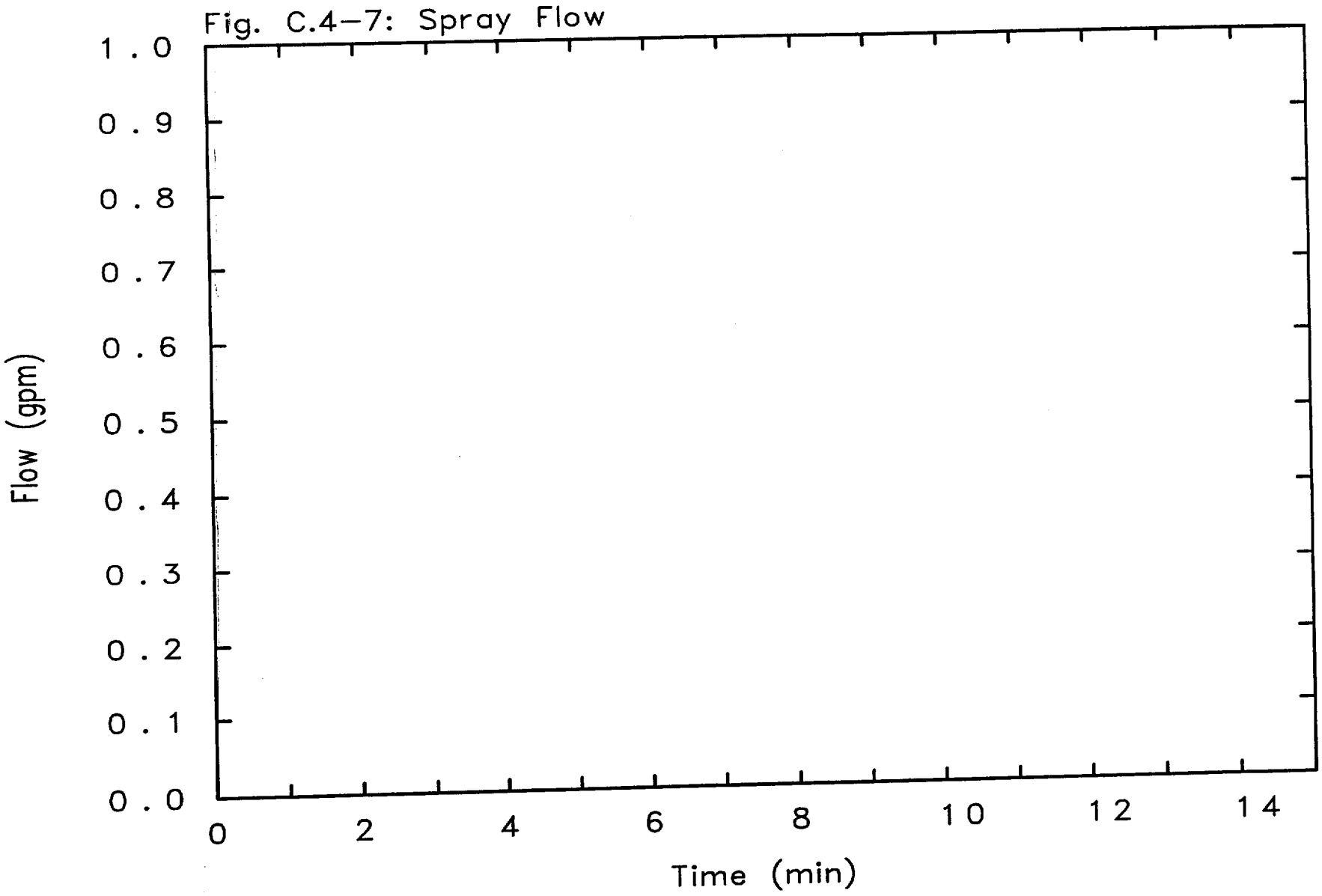
Small-Small LOCA - Ice Condenser Containment
HXJNAUDNM 08/24/99 13:08:43 MELCOR PC
CVH-LIQLEV.020

Fig. C.4-6: Pool Temp



Small-Small LOCA - Ice Condenser Containment
HXJNAUDNM 08/24/99 13:08:43 MELCOR PC
CVH-TLIQ.020

Fig. C.4-7: Spray Flow



Small-Small LOCA - Ice Condenser Containment
HXJNAUDNM 08/24/99 13:08:43 MELCOR PC
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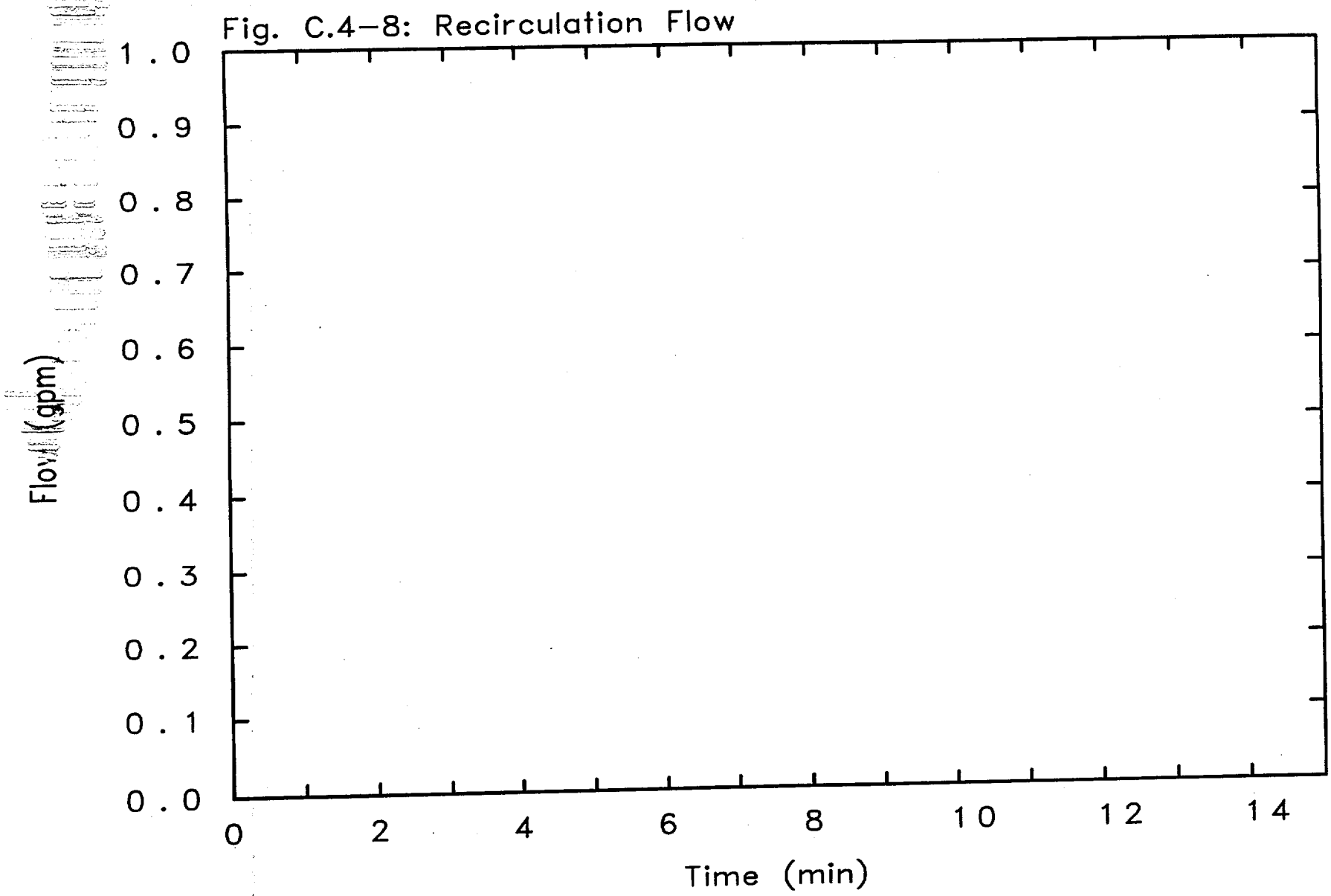
Fig. C.4-8: Recirculation Flow



Small-Small LOCA - Ice Condenser Containment
HXJNAUDNM 08/24/99 13:08:43 MELCOR PC
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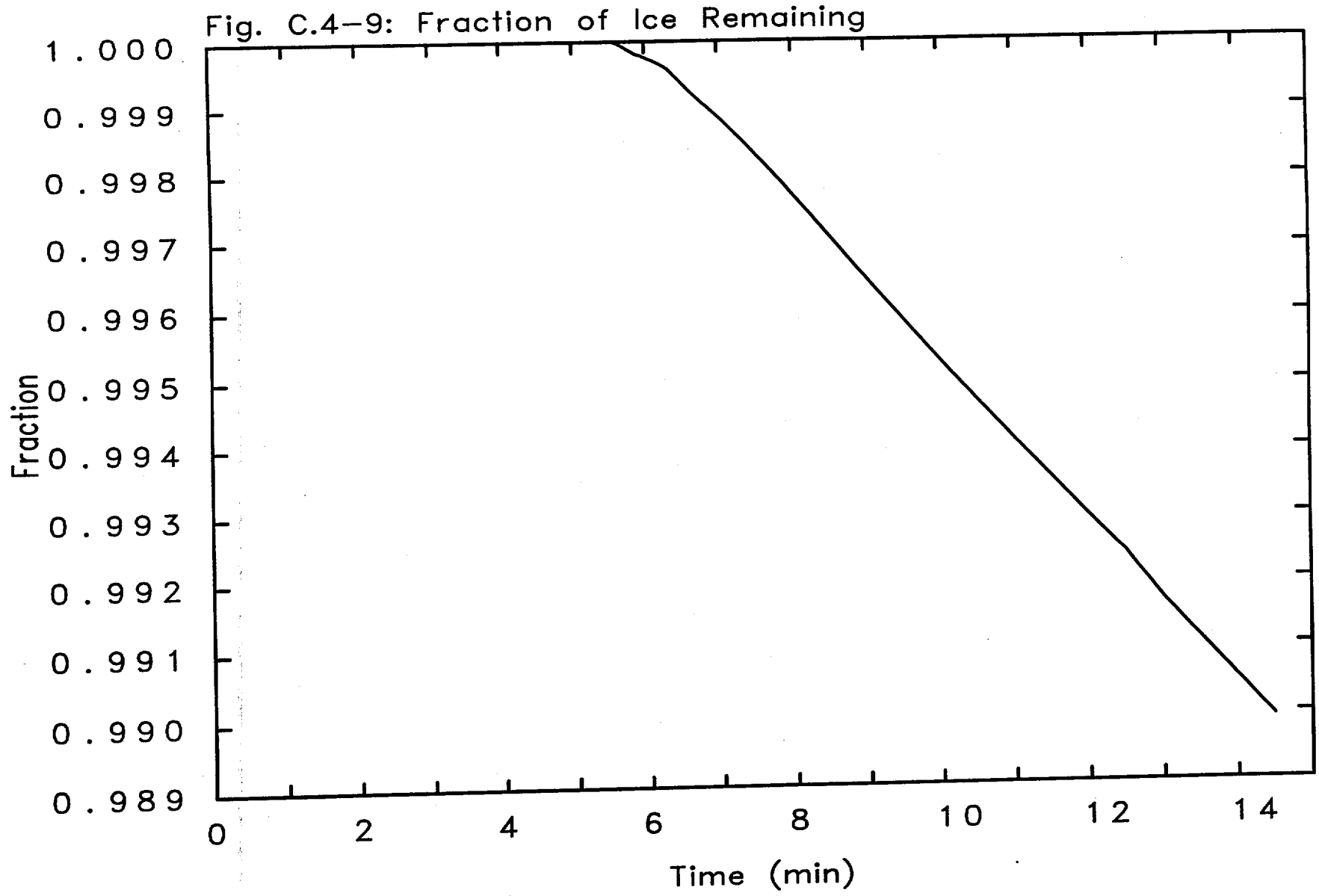
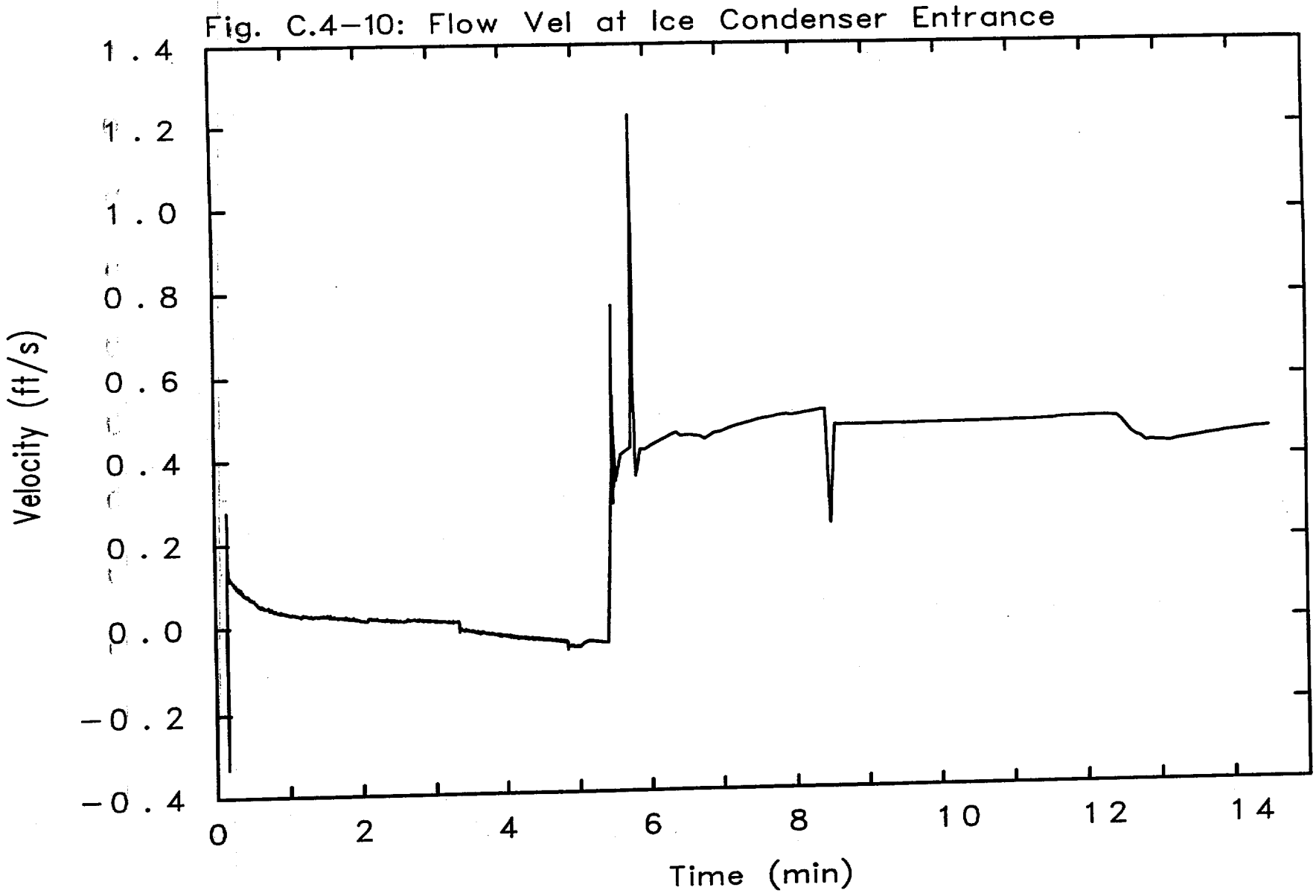
Fig. C.4-9: Fraction of Ice Remaining



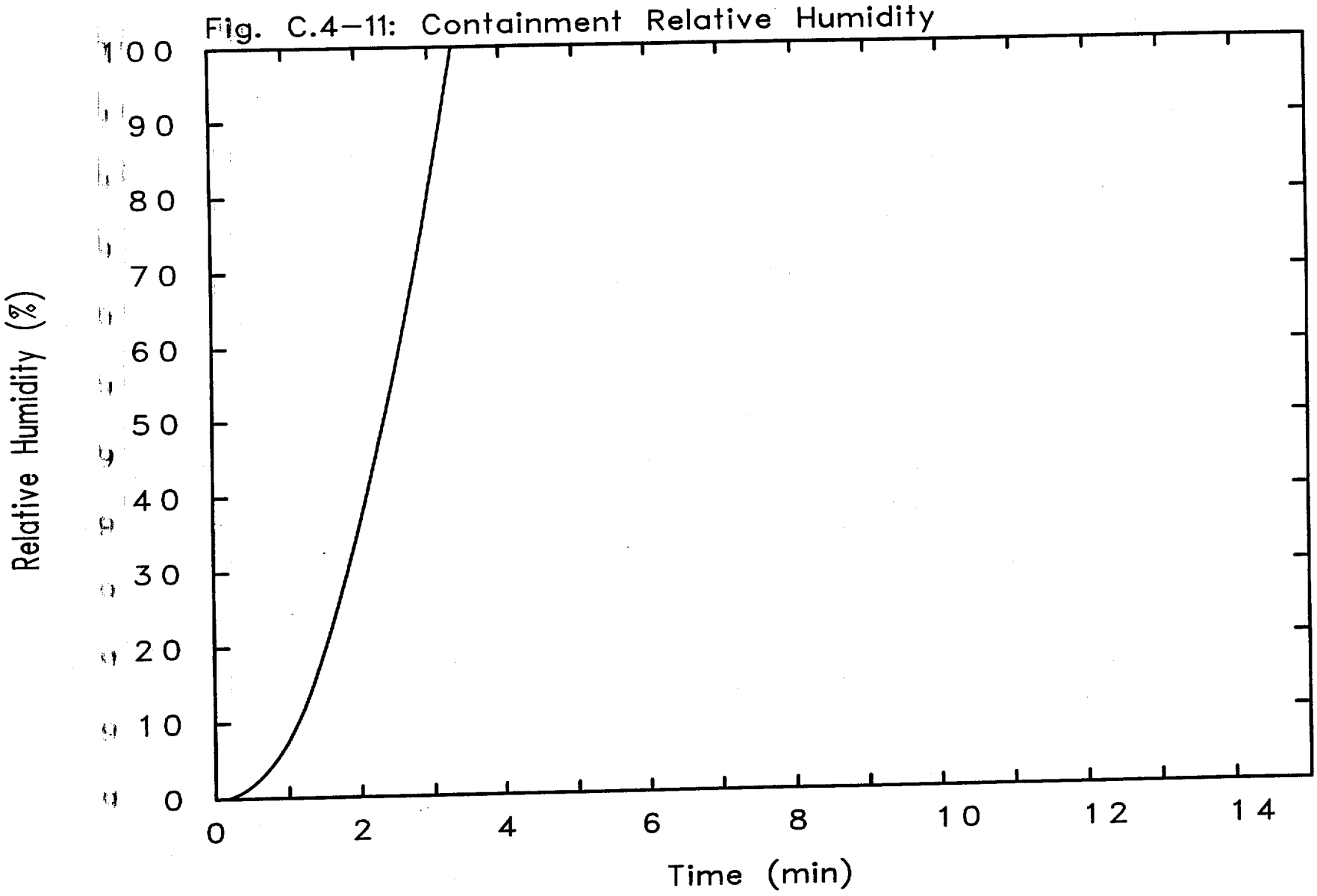
Small-Small LOCA - Ice Condenser Containment
HXJNAUDNM 08/24/99 13:08:43 MELCOR PC
CFVALU.262

Fig. C.4-10: Flow Vel at Ice Condenser Entrance



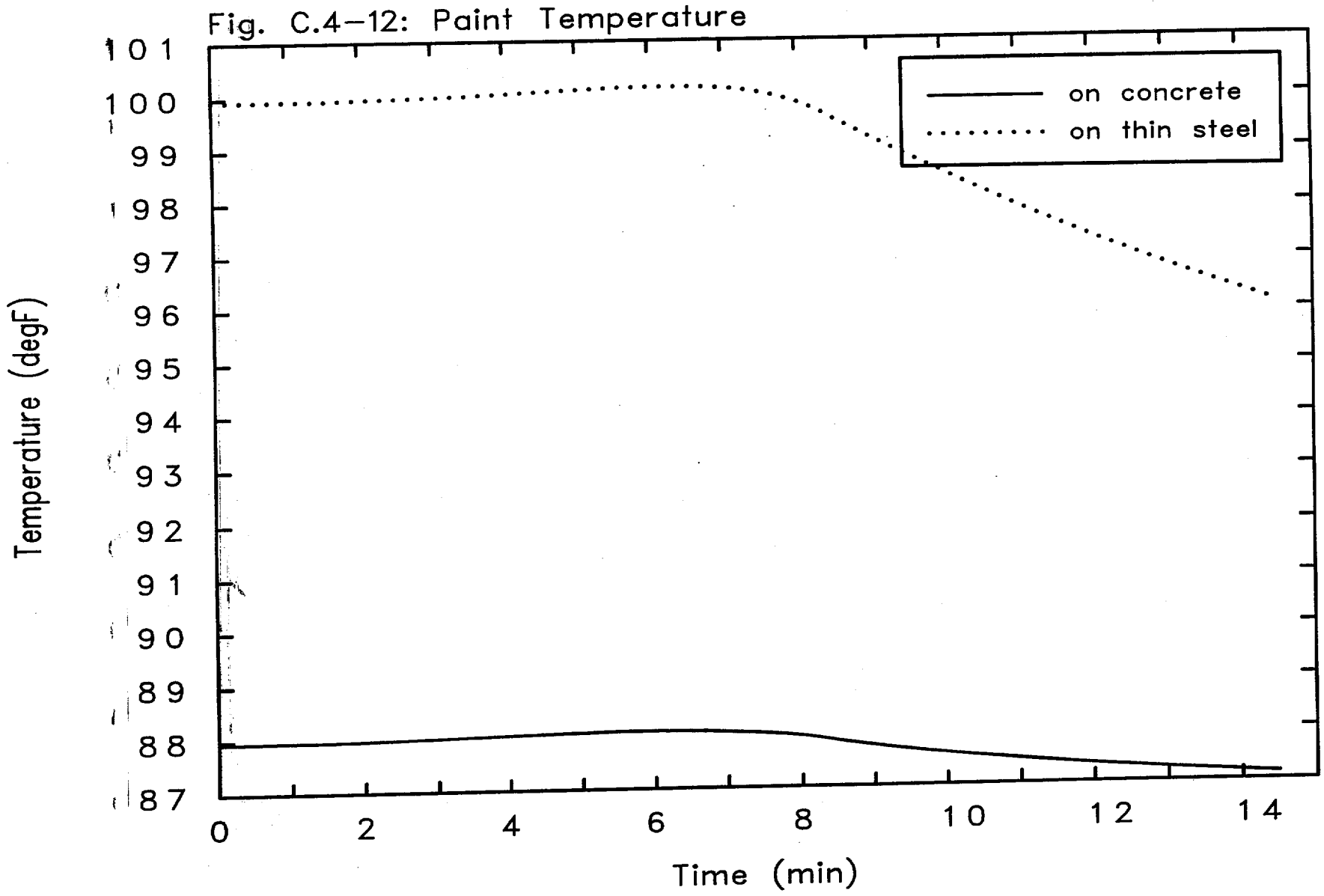
Small-Small LOCA - Ice Condenser Containment
HXJNAUDNM 08/24/99 13:08:43 MELCOR PC
FL-VELVAP.004

Fig. C.4-11: Containment Relative Humidity



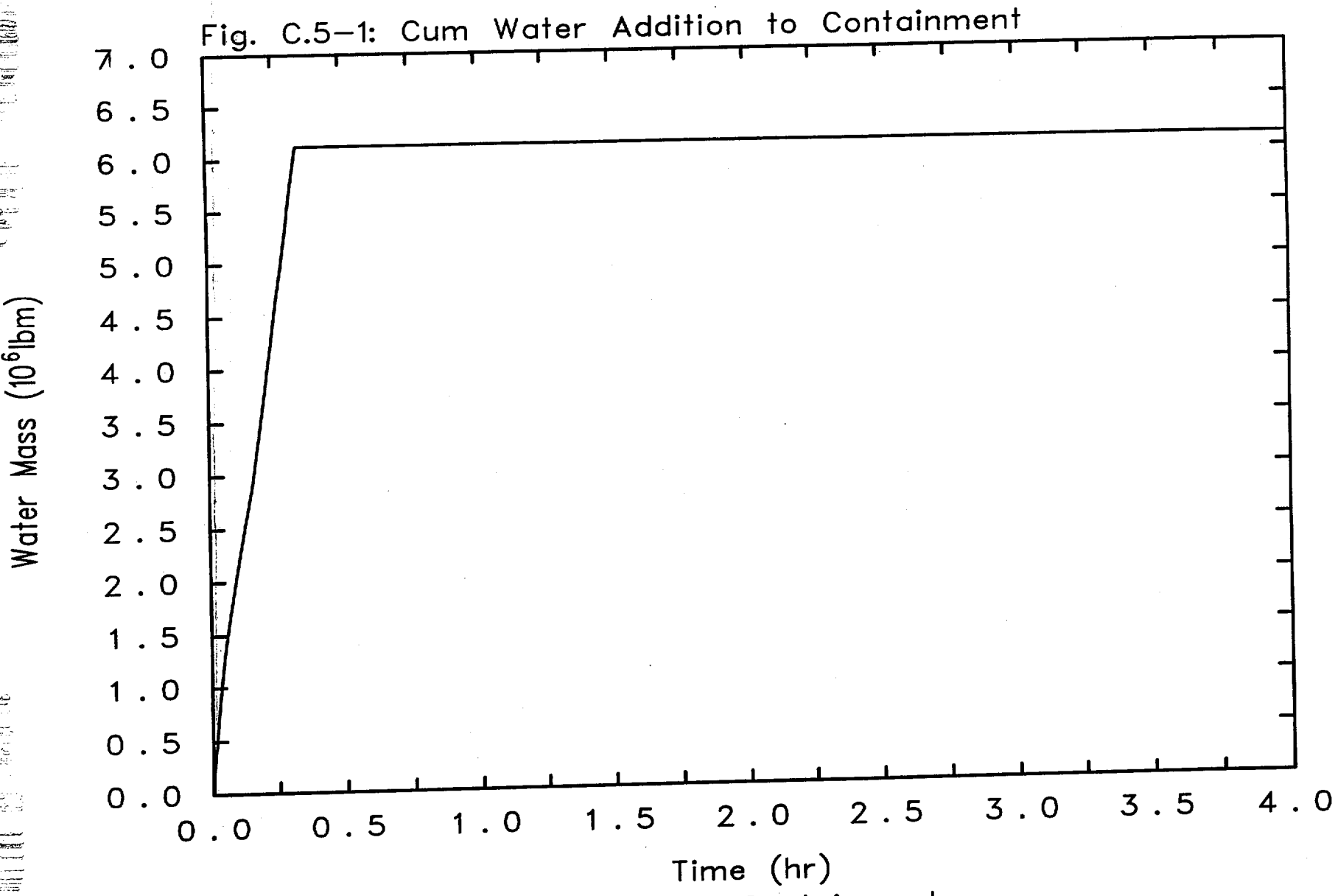
Small-Small LOCA - Ice Condenser Containment
HXJNAUDNM 08/24/99 13:08:43 MELCOR PC
CFVALU.536

Fig. C.4-12: Paint Temperature



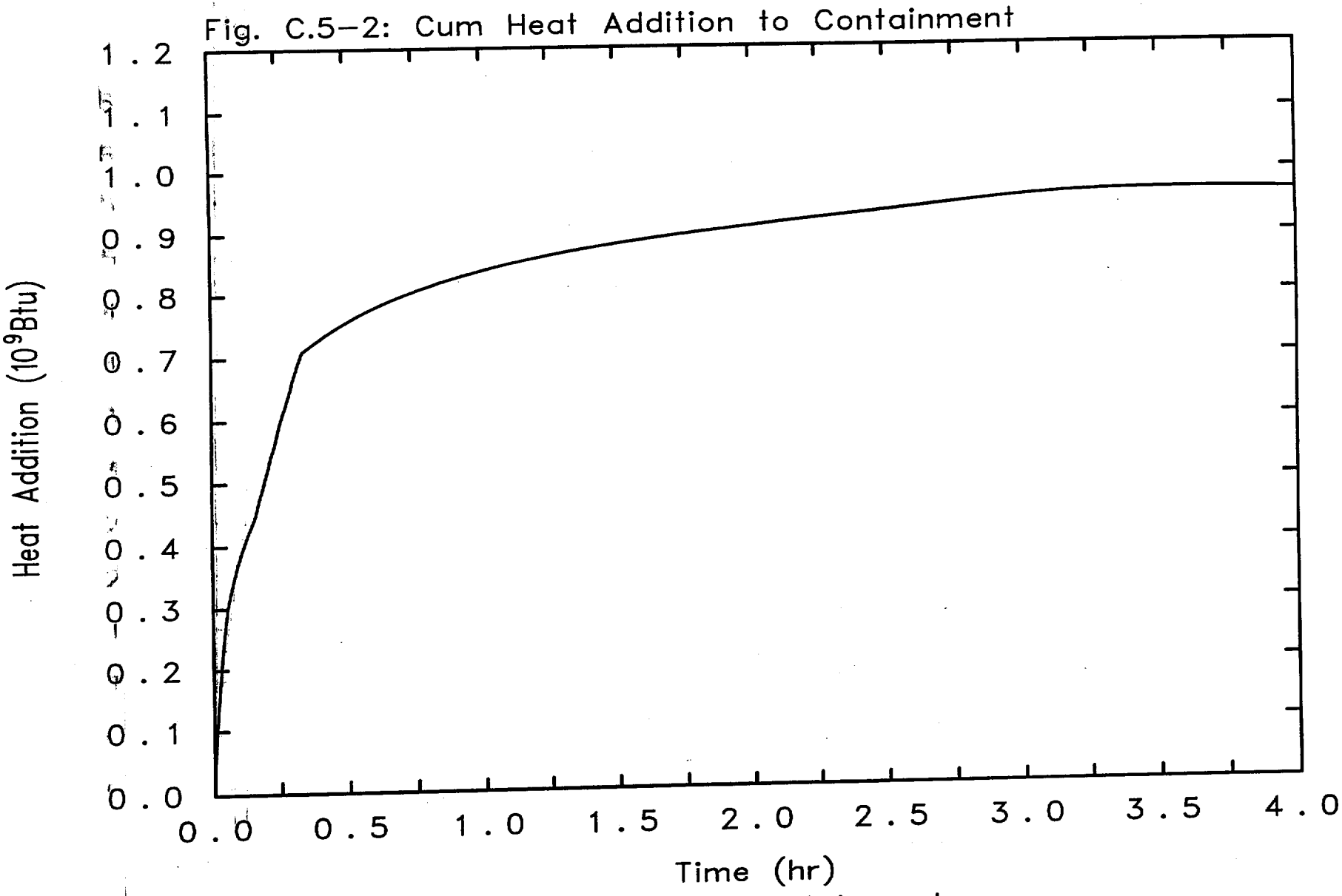
Small-Small LOCA - Ice Condenser Containment
HXJNAUDNM 08/24/99 13:08:43 MELCOR PC

Fig. C.5-1: Cum Water Addition to Containment



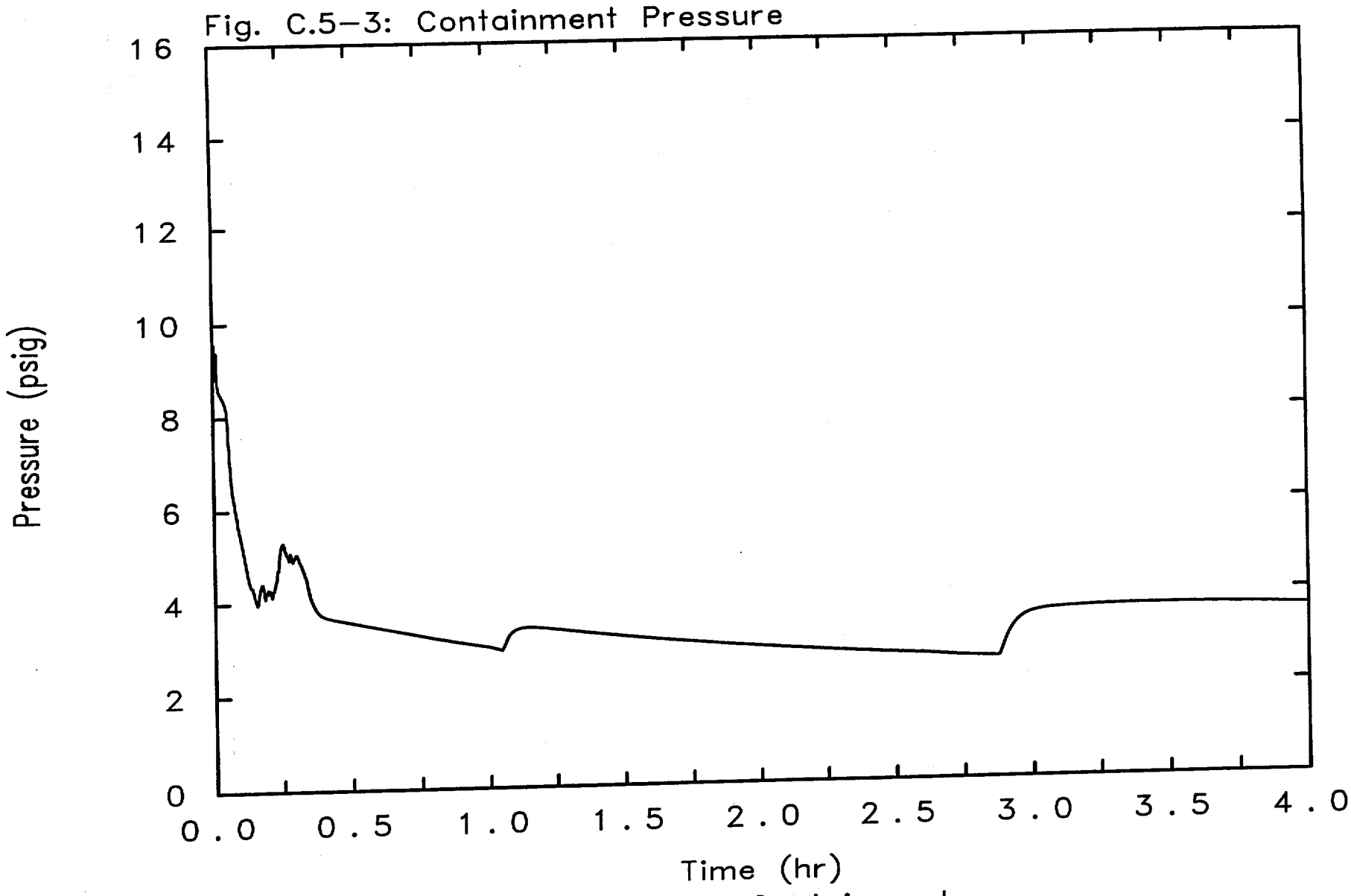
PRZR Surge Line Break – Ice Condenser Containment
HWJOBBZNM 08/23/99 14:12:07 MELCOR PC
CFVALU.538

Fig. C.5-2: Cum Heat Addition to Containment



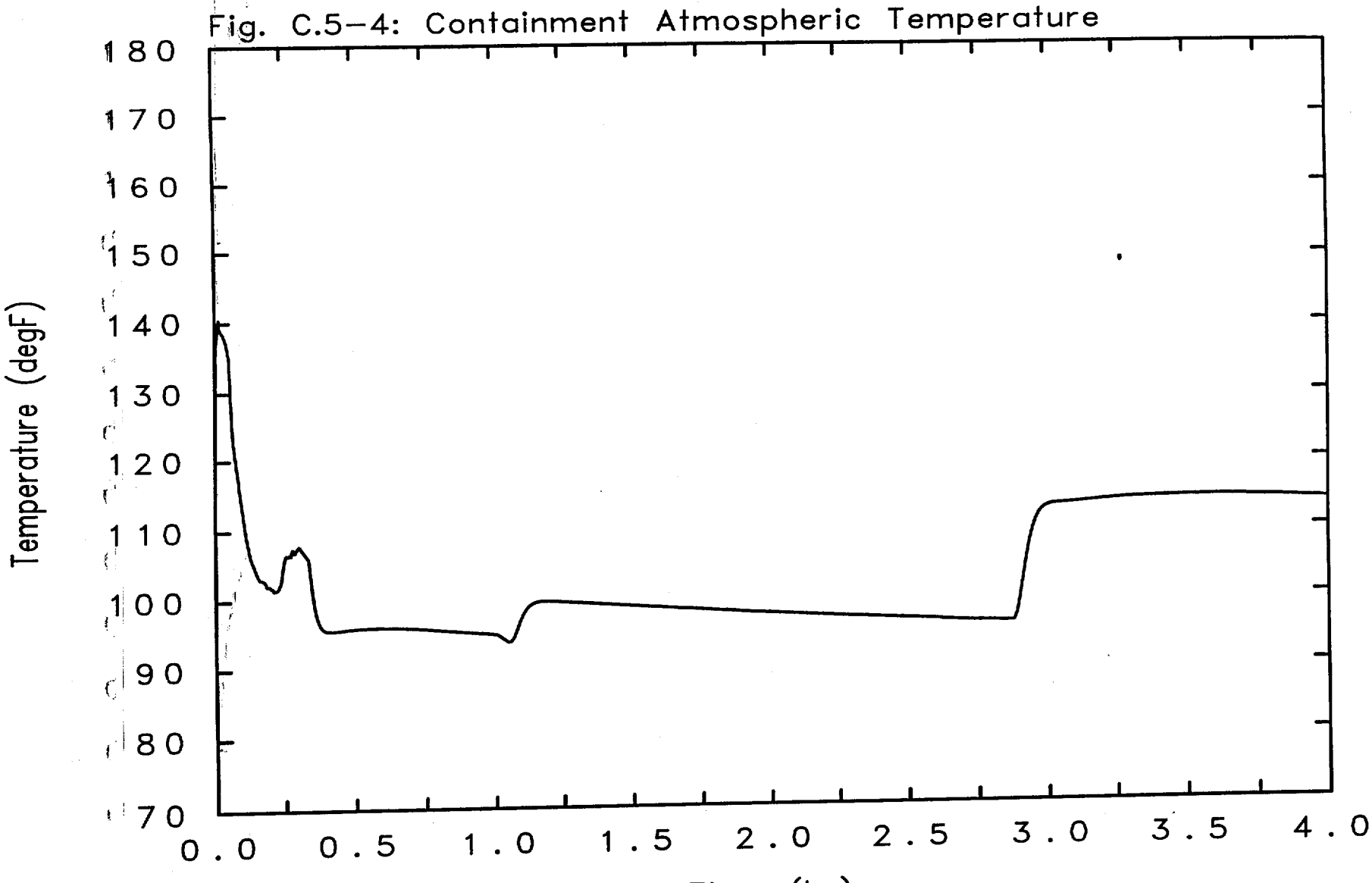
PRZR Surge Line Break – Ice Condenser Containment
HWJOBBZNM 08/23/99 14:12:07 MELCOR PC
CFVALU.546

Fig. C.5-3: Containment Pressure



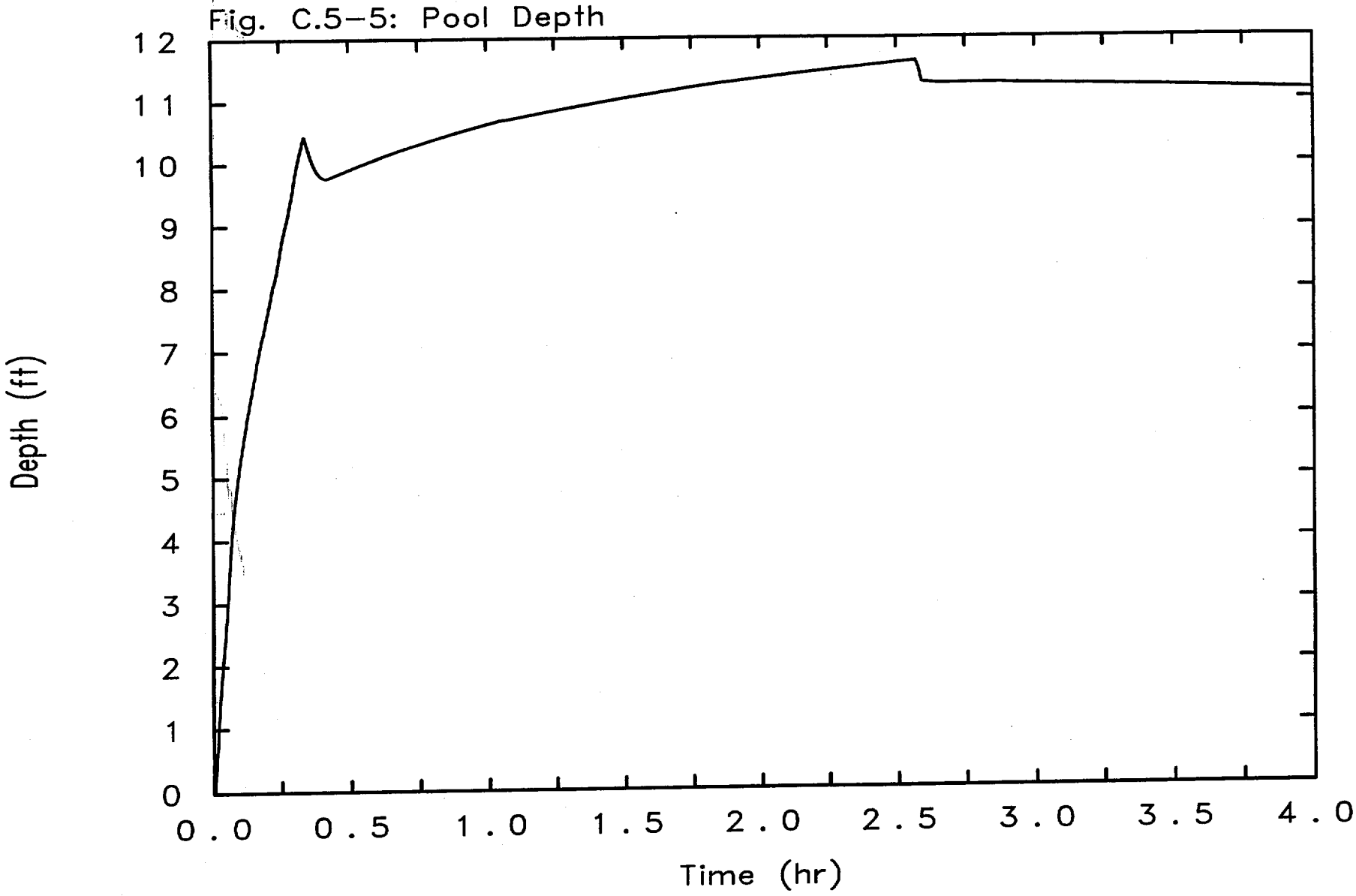
PRZR Surge Line Break - Ice Condenser Containment
HWJOBBZNM 08/23/99 14:12:07 MELCOR PC
CVH-P.070

Fig. C.5-4: Containment Atmospheric Temperature



PRZR Surge Line Break – Ice Condenser Containment
HWJOBBZNM 08/23/99 14:12:07 MELCOR PC
CVH-TVAP.070

Fig. C.5-5: Pool Depth



PRZR Surge Line Break – Ice Condenser Containment
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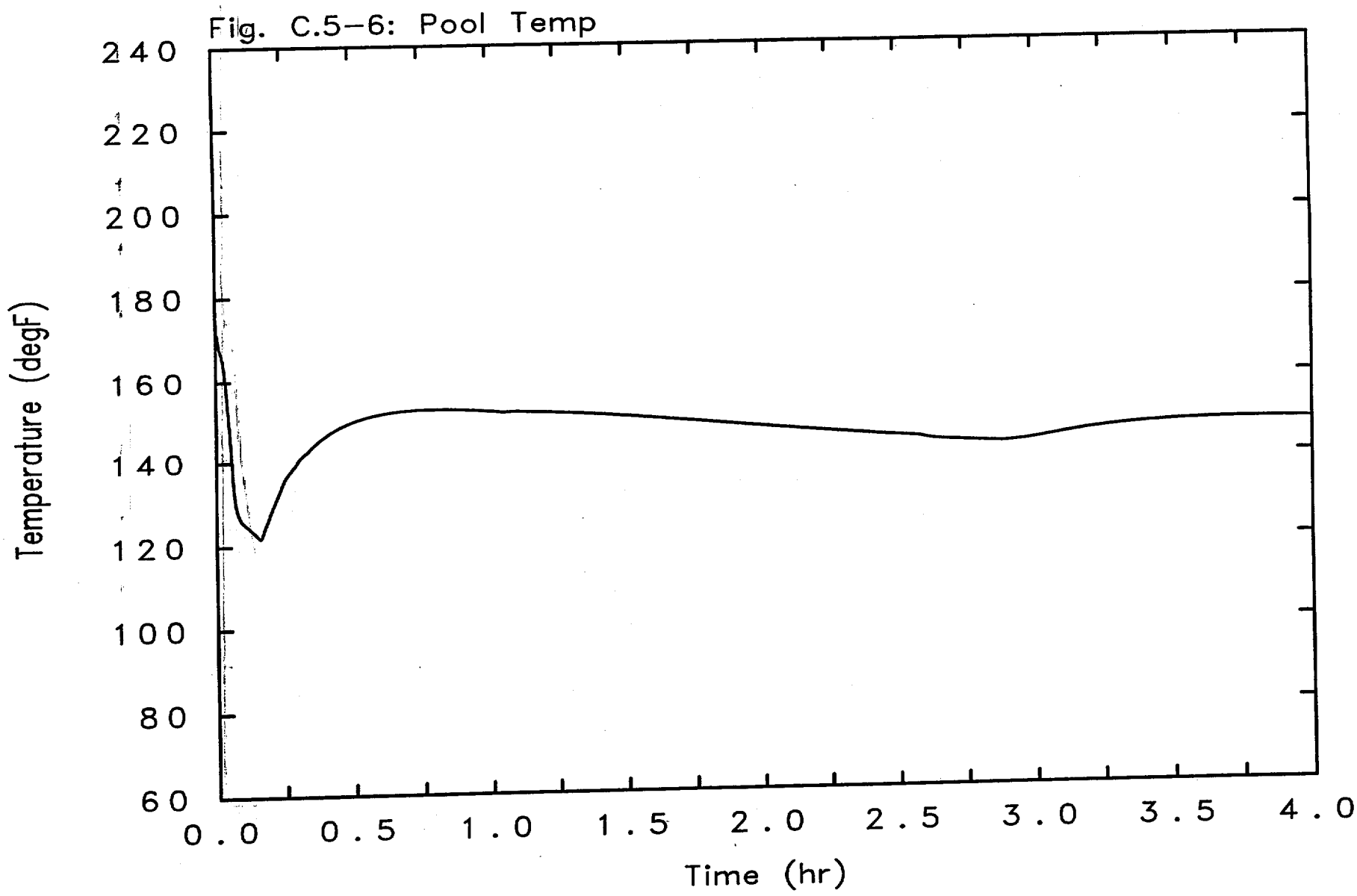
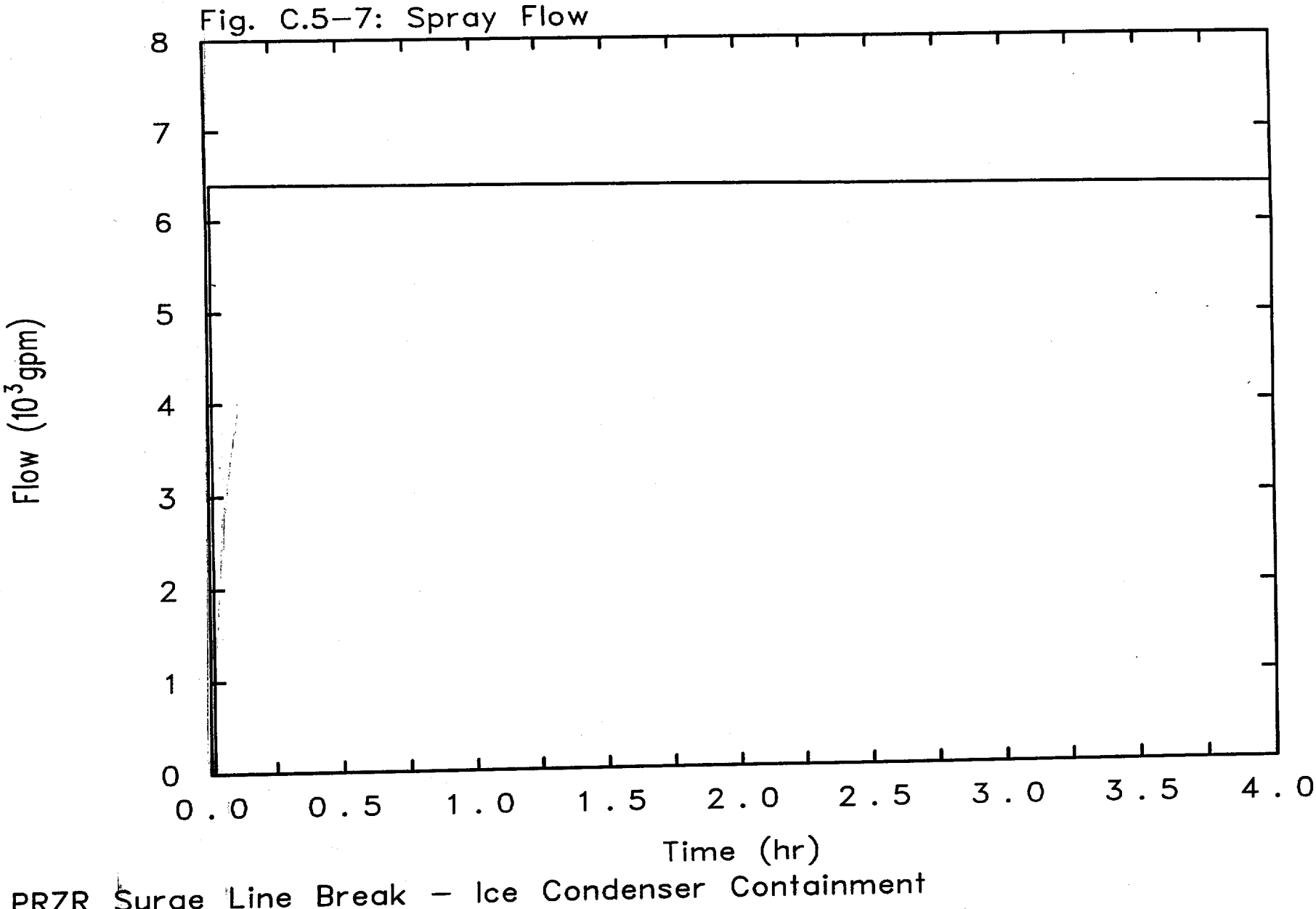
CVH-LIQLEV.020



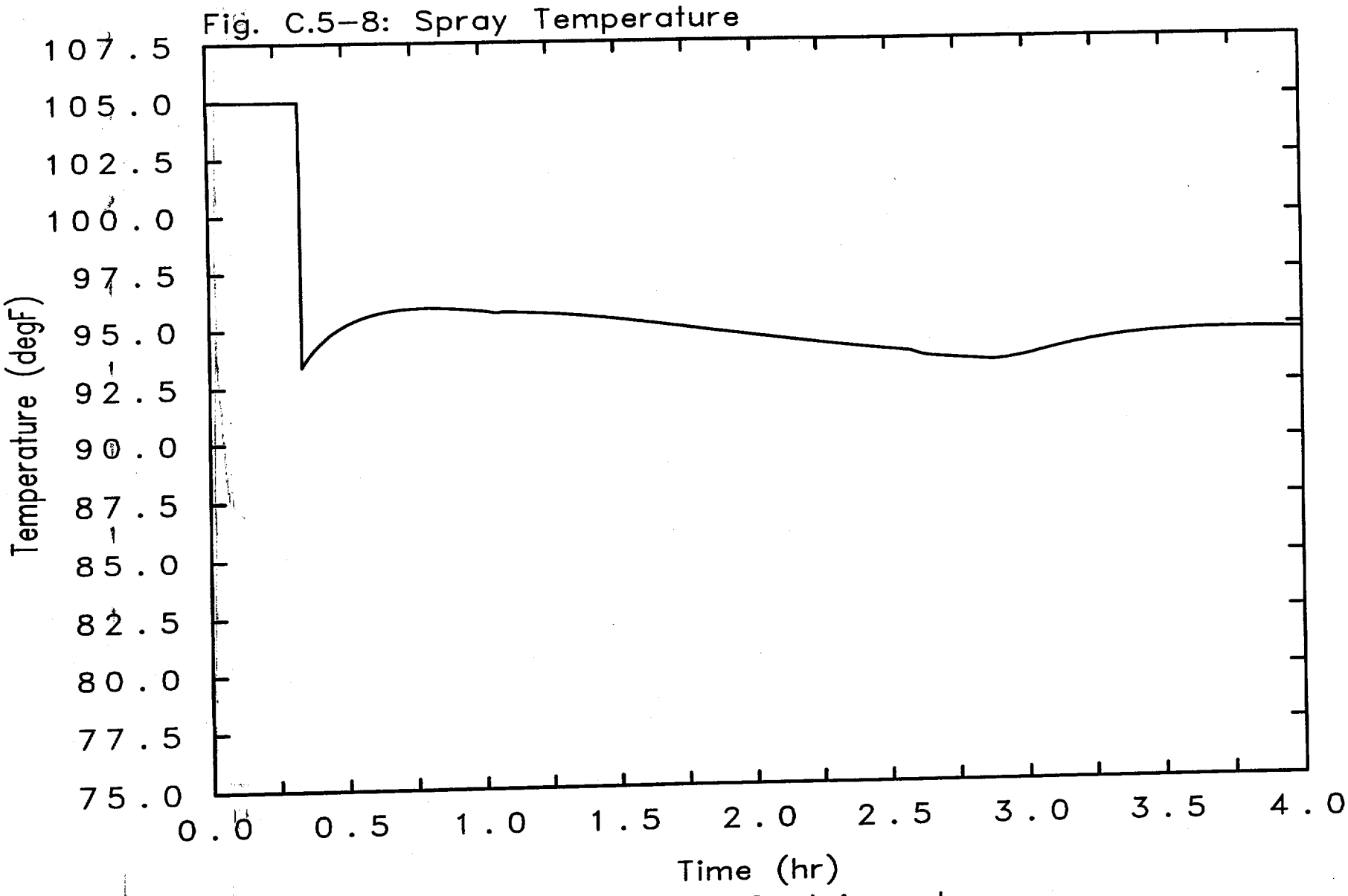
PRZR Surge Line Break – Ice Condenser Containment
HWJOBBZNM 08/23/99 14:12:07 MELCOR PC
CVH-TLIQ.020

Fig. C.5-7: Spray Flow



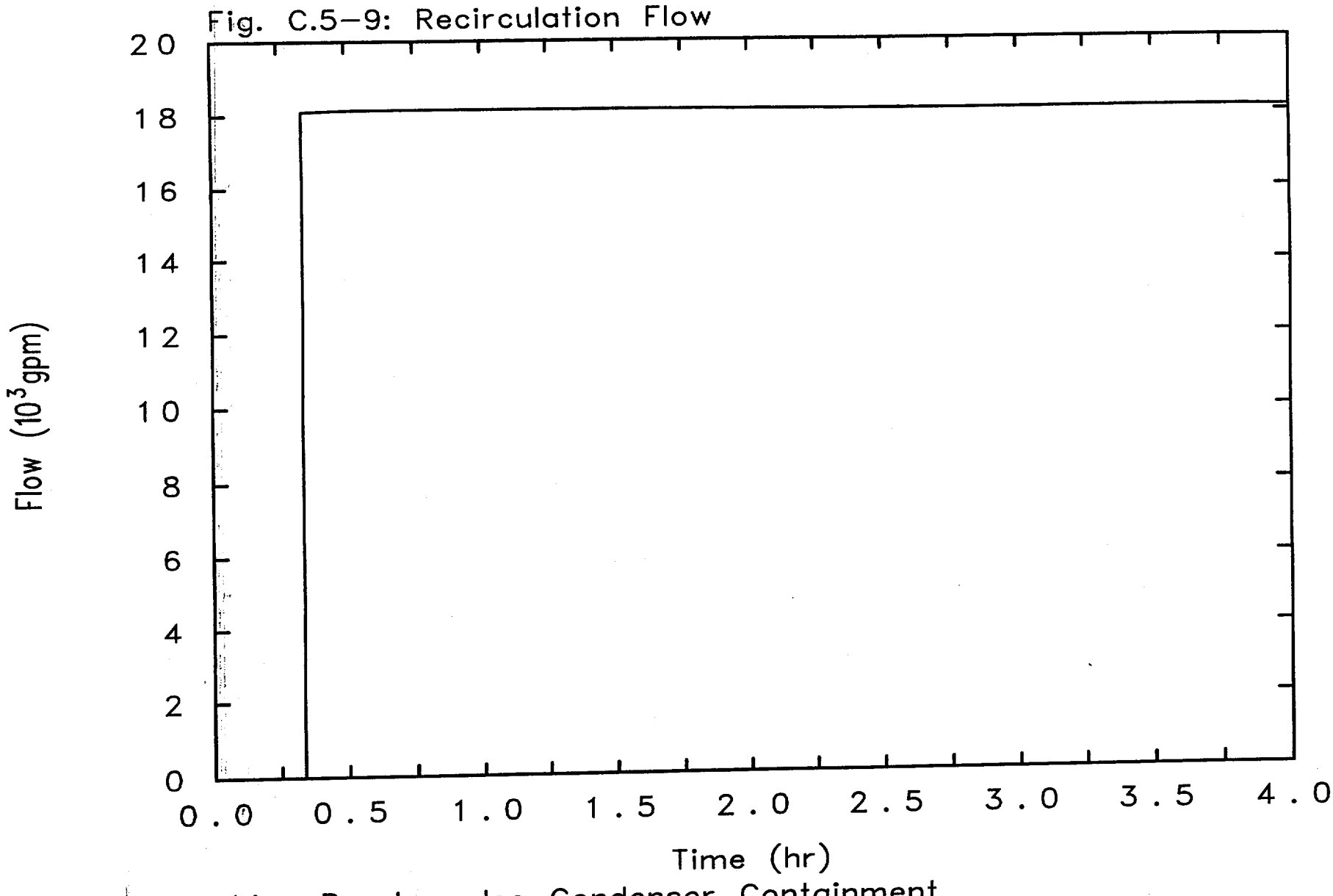
PRZR Surge Line Break - Ice Condenser Containment
HWJOBBZNM 08/23/99 14:12:07 MELCOR PC
CFVALU.300

Fig. C.5-8: Spray Temperature



PRZR Surge Line Break - Ice Condenser Containment
HWJOBBZNM 08/23/99 14:12:07 MELCOR PC
CFVALU.304

Fig. C.5-9: Recirculation Flow



PRZR Surge Line Break - Ice Condenser Containment
HWJOBBZNM 08/23/99 14:12:07 MELCOR PC
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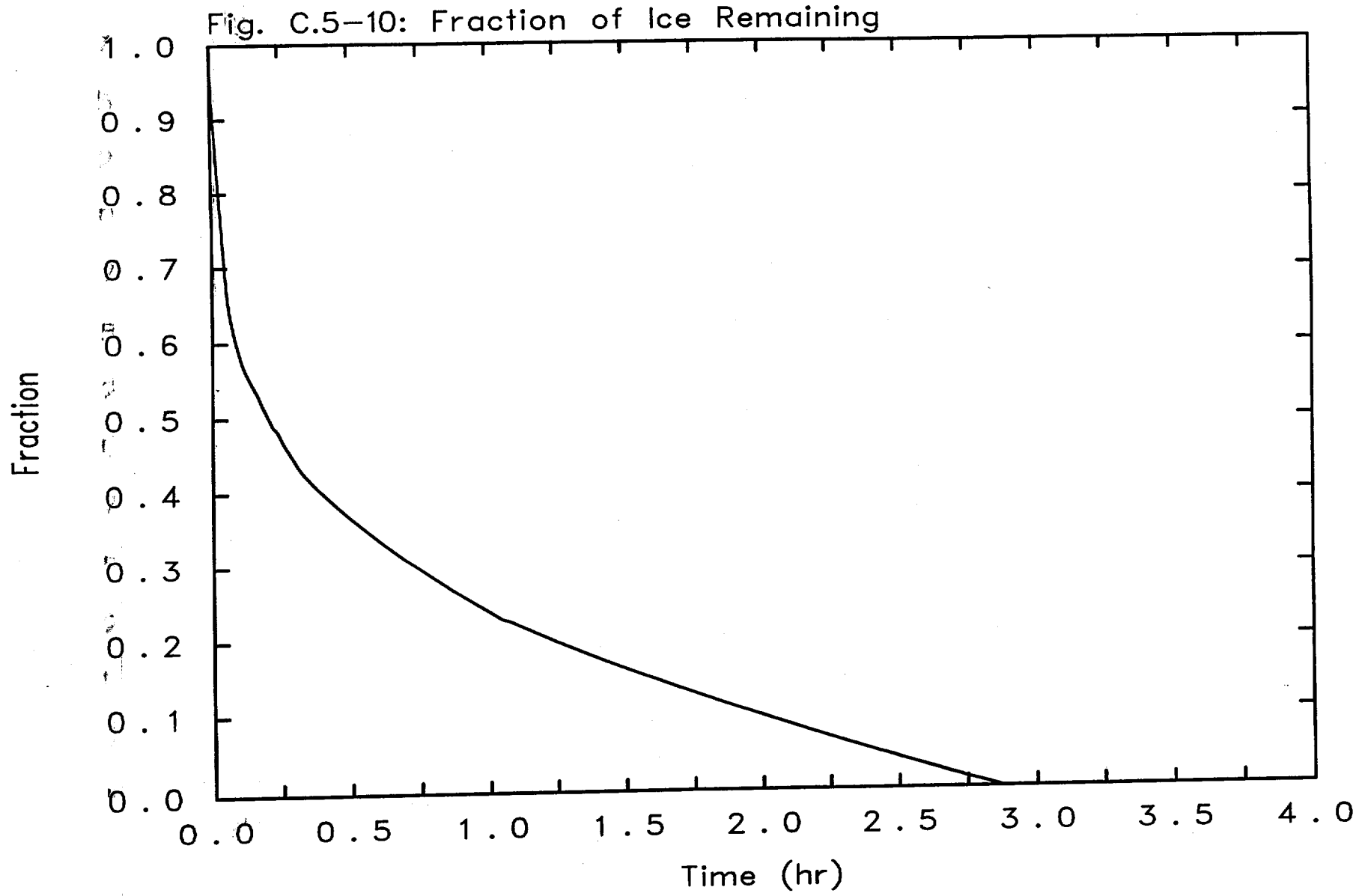
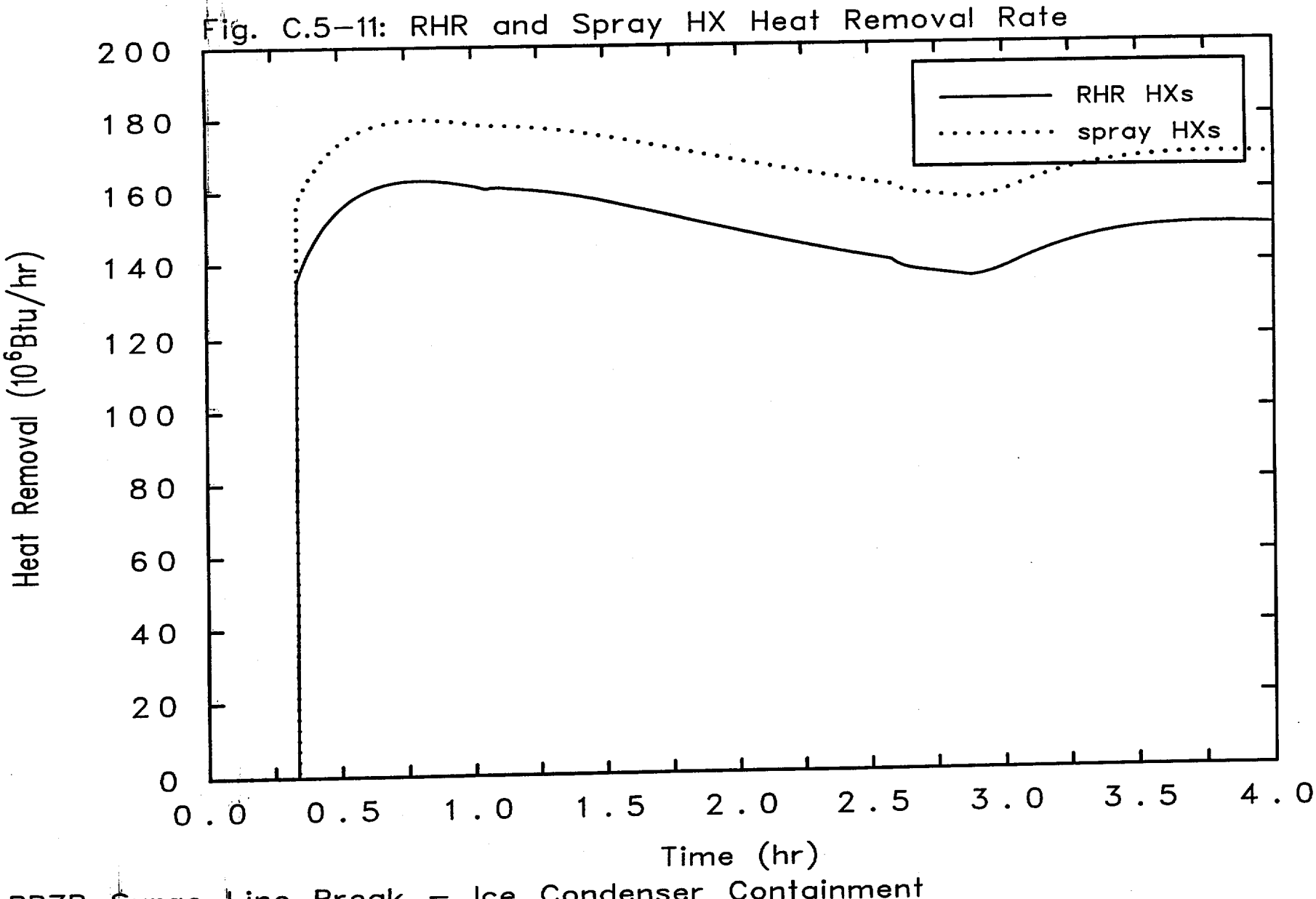
Fig. C.5-10: Fraction of Ice Remaining



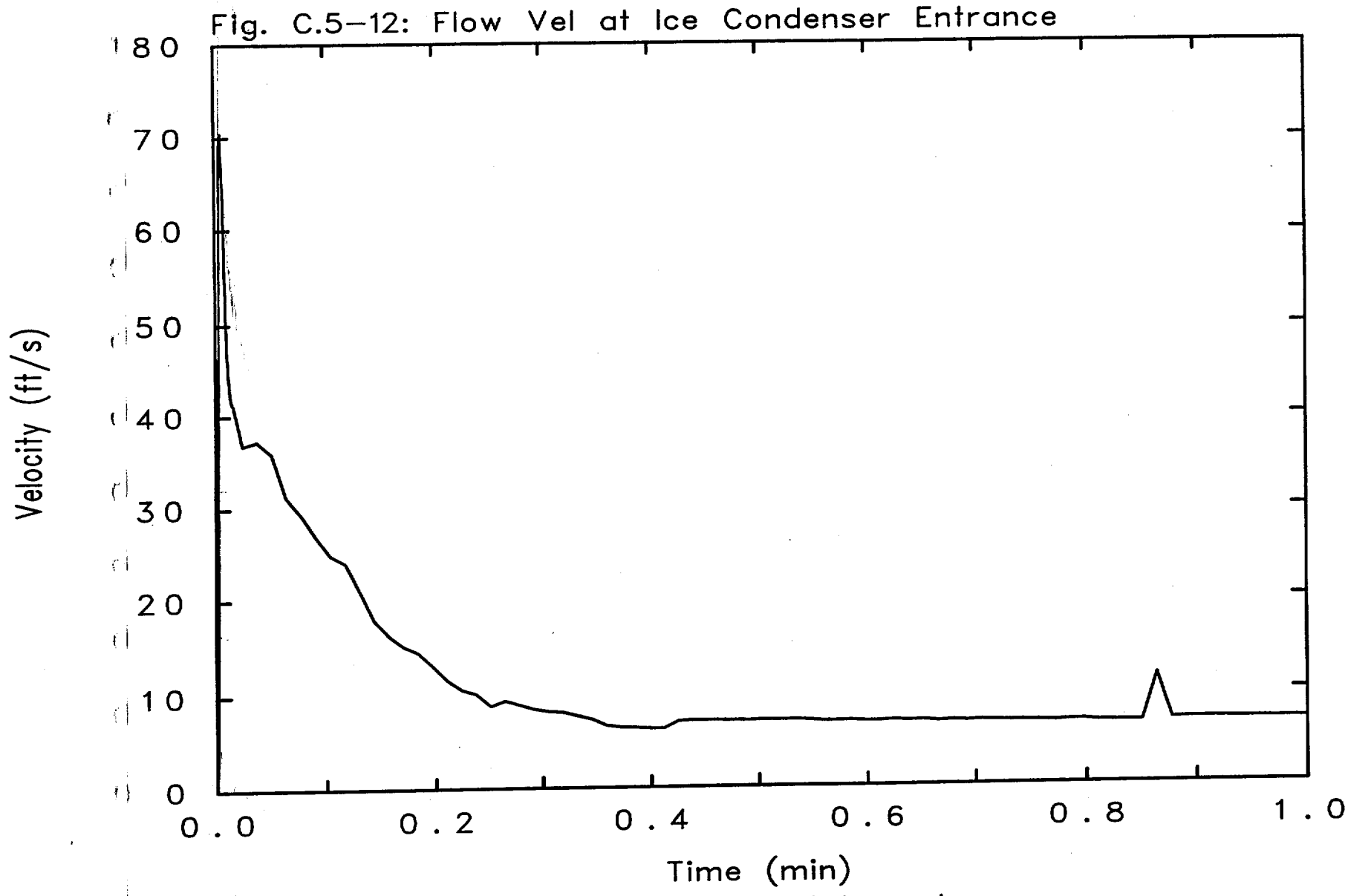
PRZR Surge Line Break - Ice Condenser Containment
HWJOBBZNM 08/23/99 14:12:07 MELCOR PC
CFVALU.262

Fig. C.5-11: RHR and Spray HX Heat Removal Rate



PRZR Surge Line Break – Ice Condenser Containment
HWJOBBZNM 08/23/99 14:12:07 MELCOR PC

Fig. C.5-12: Flow Vel at Ice Condenser Entrance



PRZR Surge Line Break - Ice Condenser Containment
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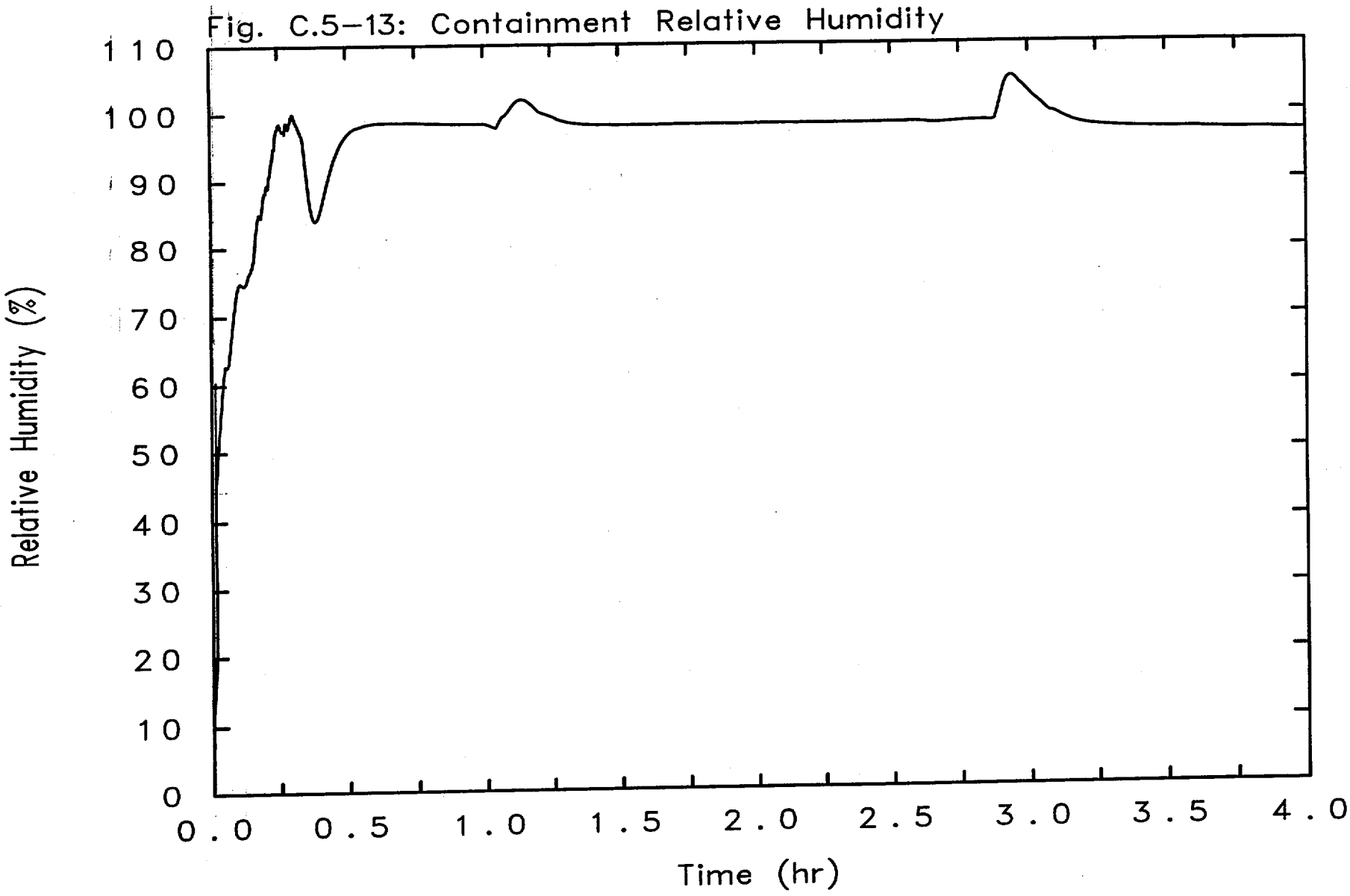
Fig. C.5-13: Containment Relative Humidity



PRZR Surge Line Break – Ice Condenser Containment
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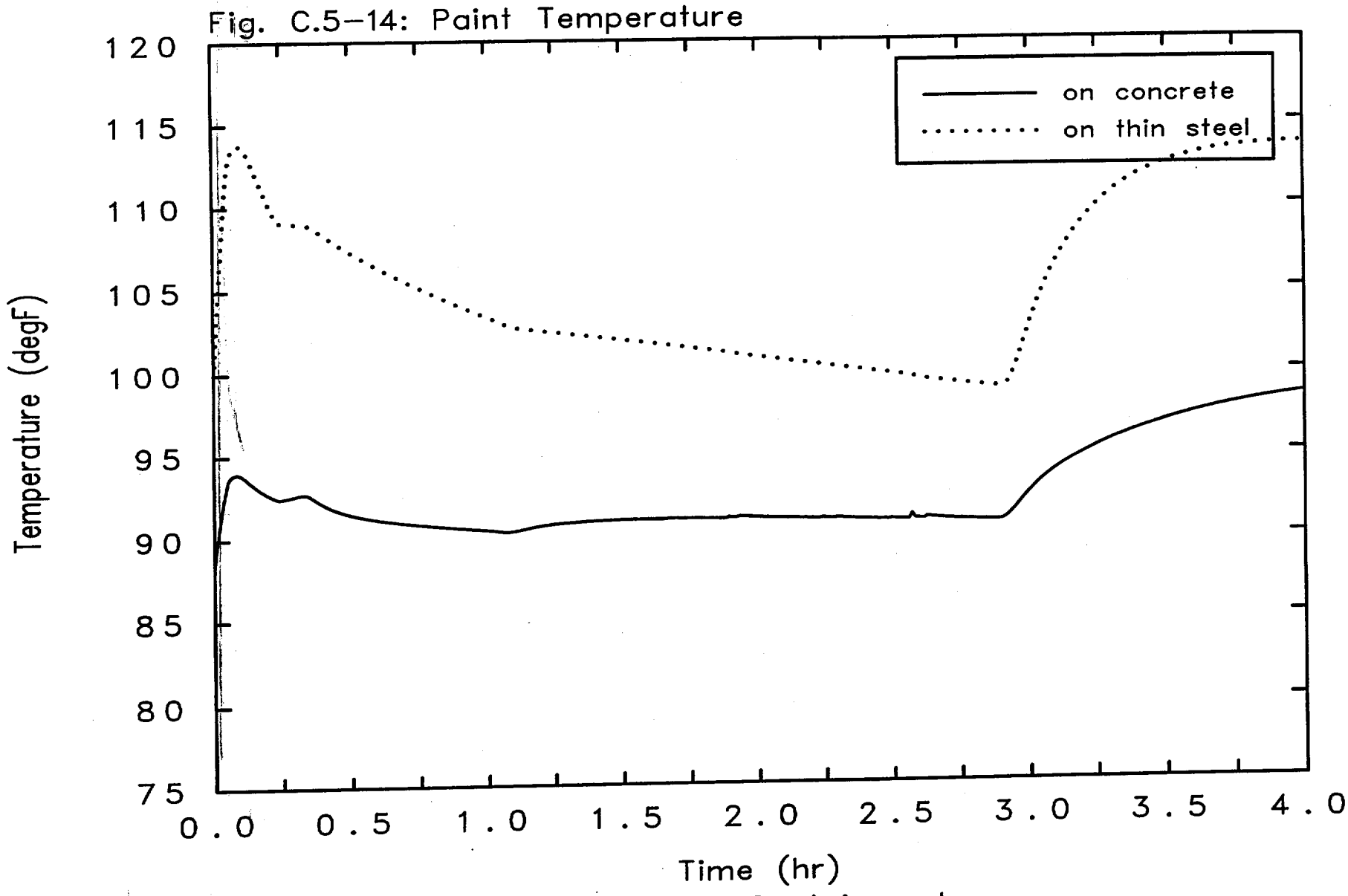
CFVALU.536

Fig. C.5-14: Paint Temperature



PRZR Surge Line Break – Ice Condenser Containment
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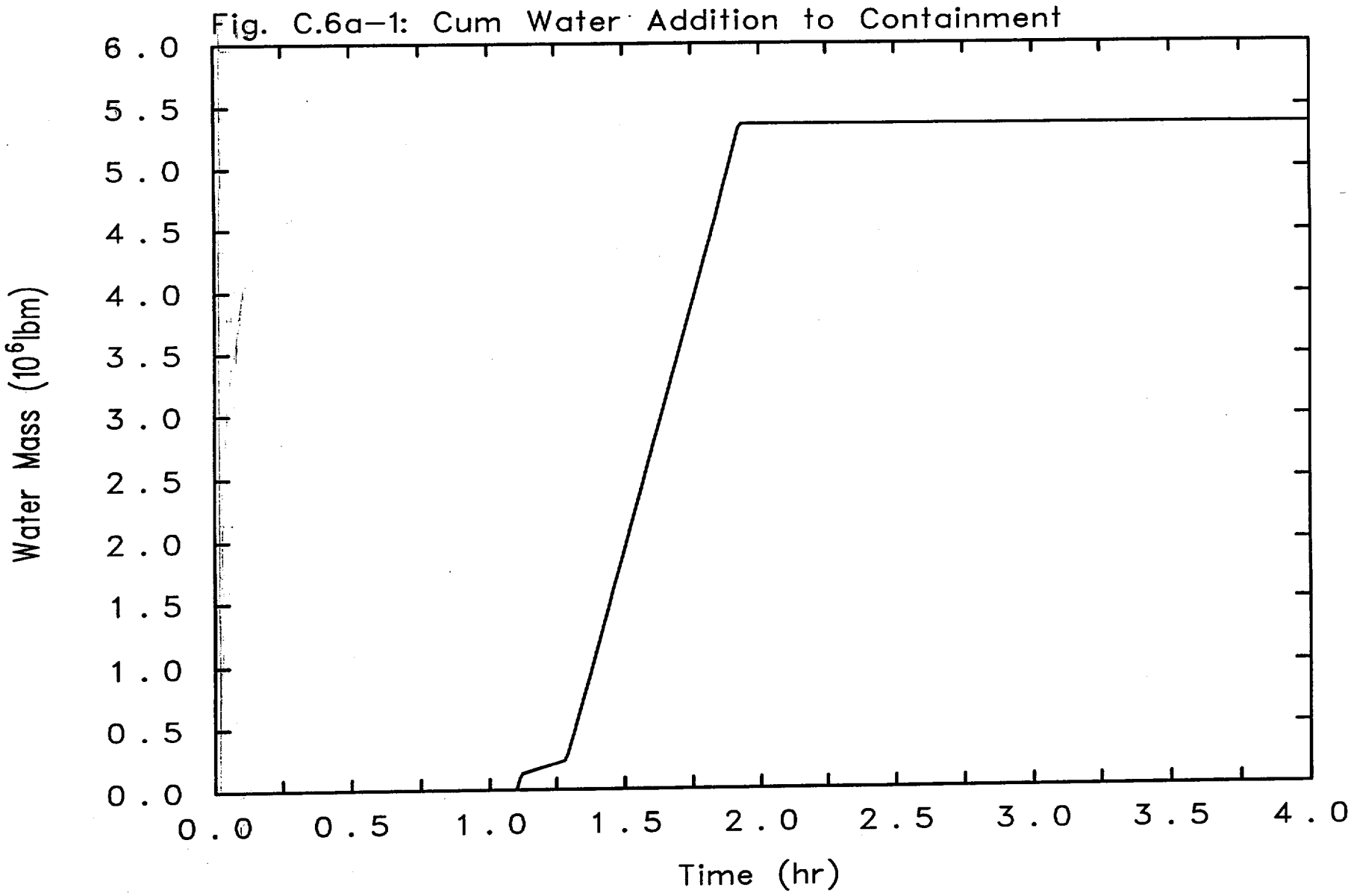
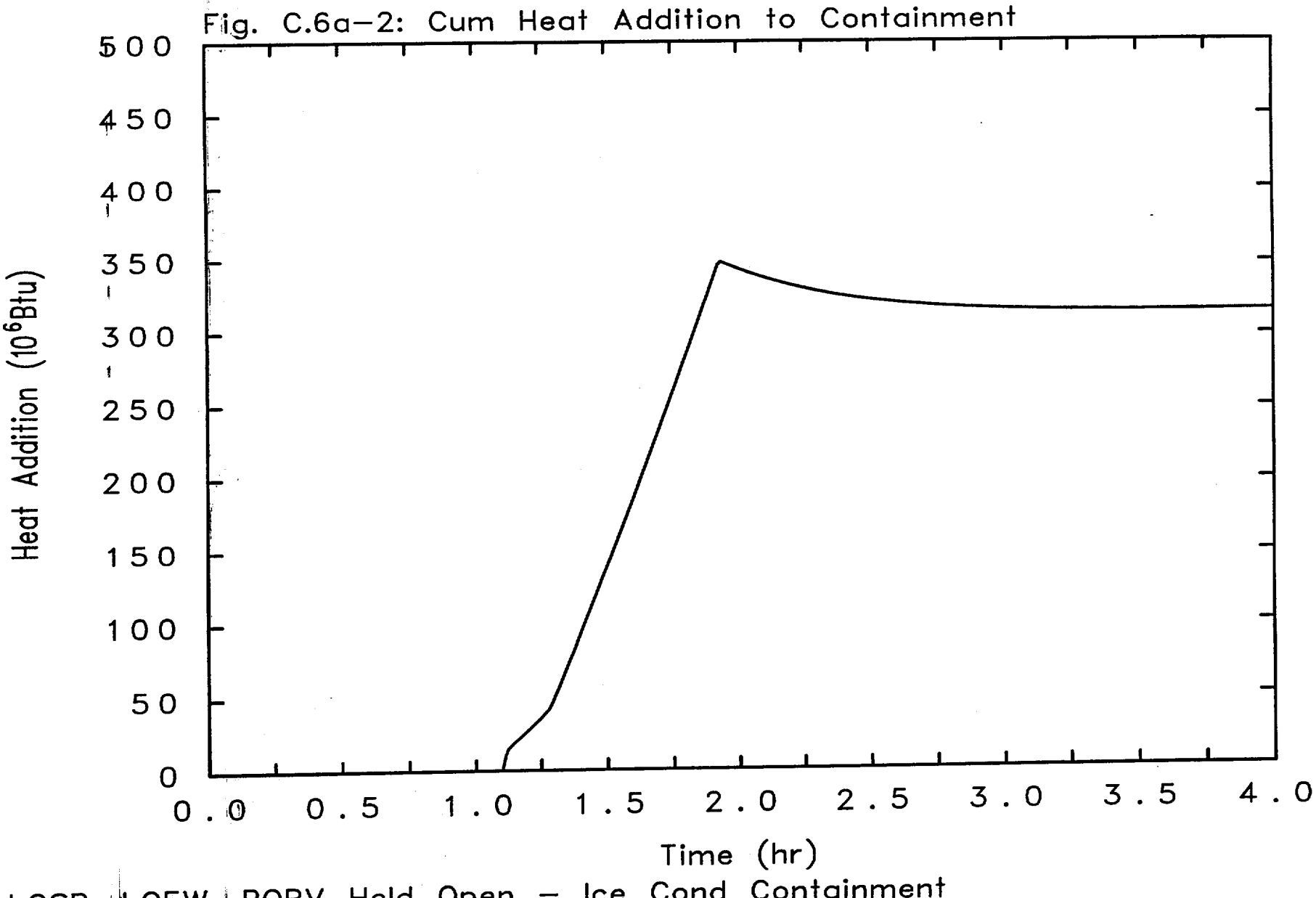
Fig. C.6a-1: Cum Water Addition to Containment



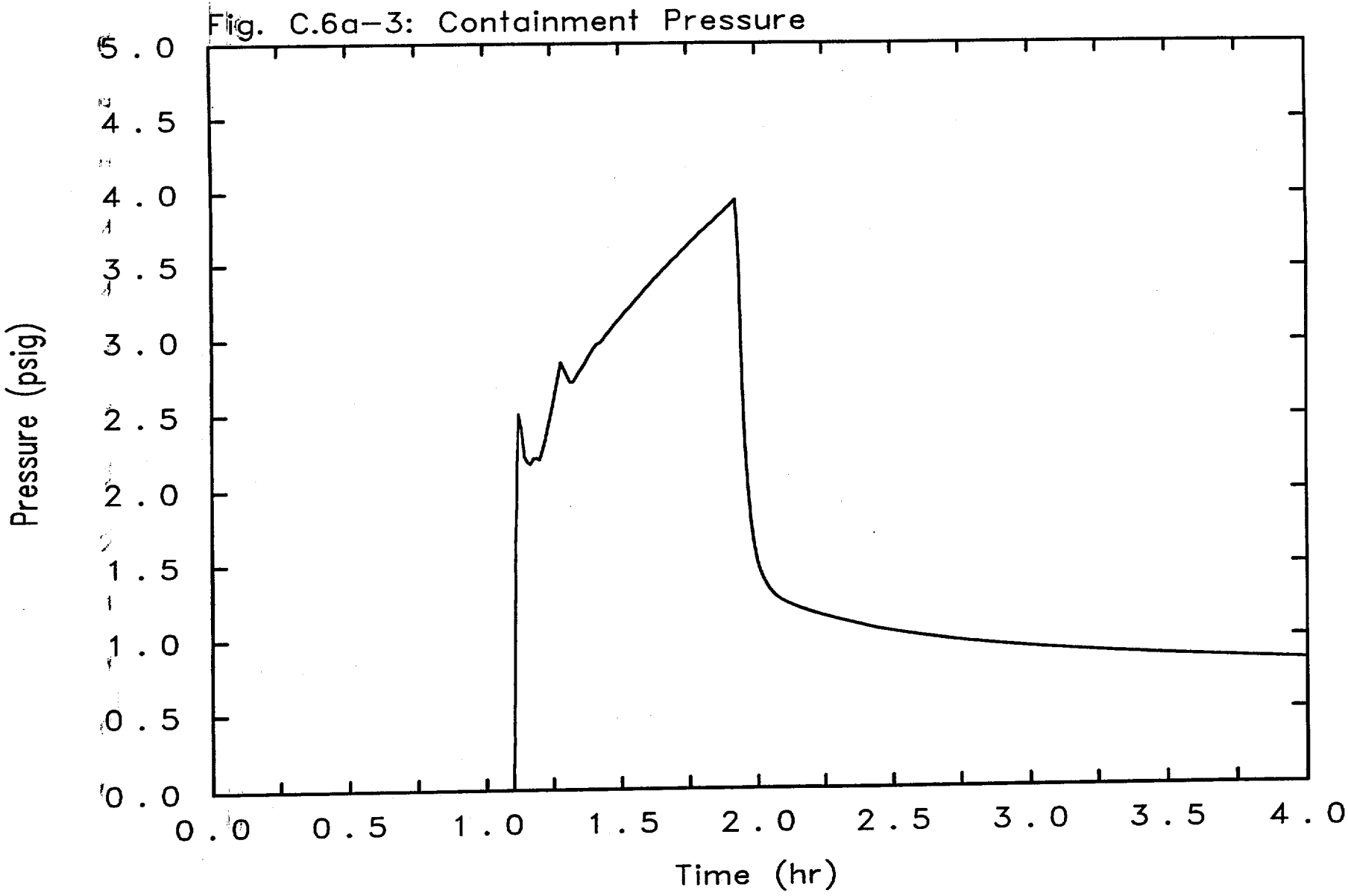
LOSP, LOFW, PORV Held Open - Ice Cond Containment
HWJPCZENM 08/23/99 15:33:26 MELCOR PC
CFVALU.538

Fig. C.6a-2: Cum Heat Addition to Containment



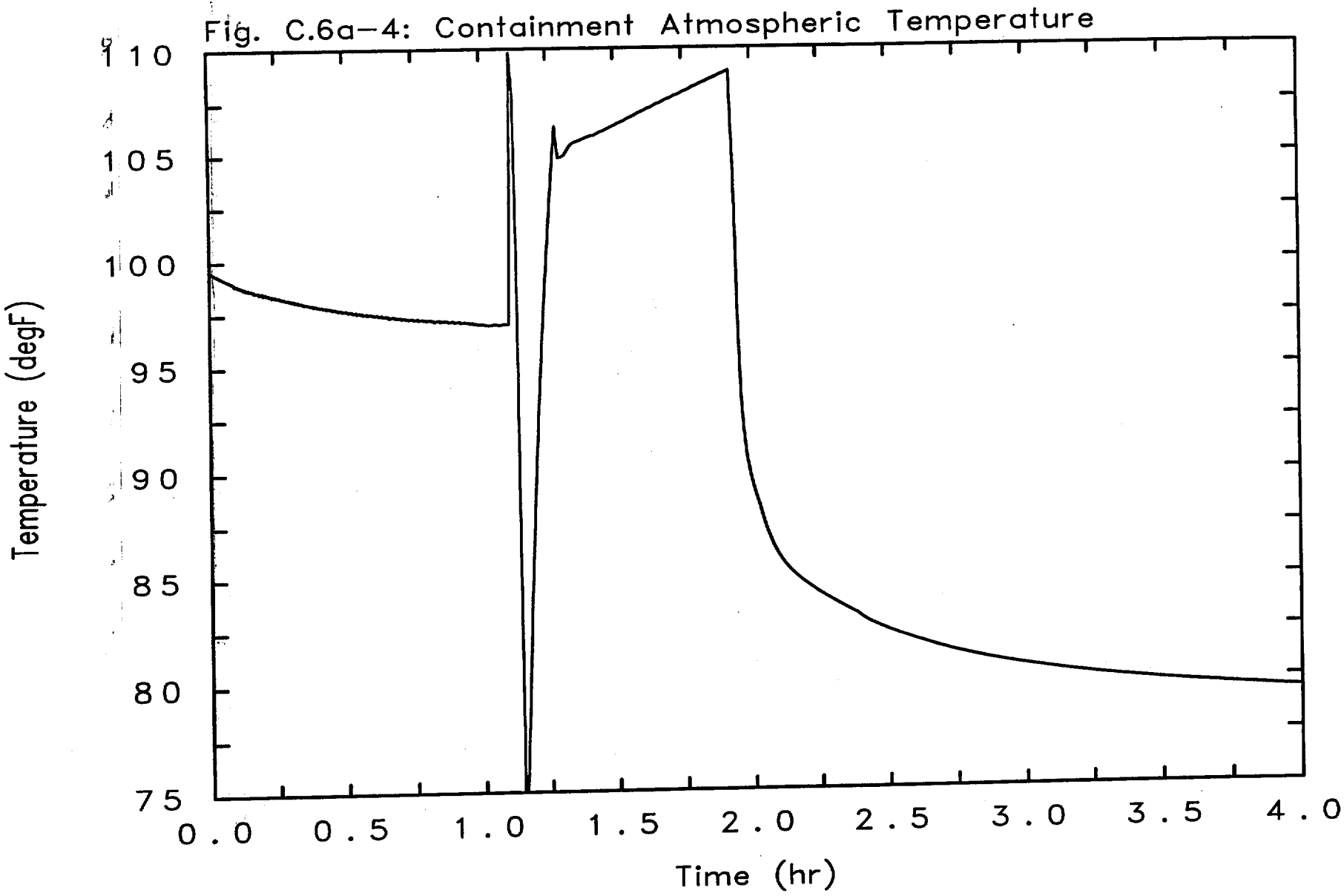
LOSP, LOFW, PORV Held Open – Ice Cond Containment
HWJPCZENM 08/23/99 15:33:26 MELCOR PC
CFVALU.546

Fig. C.6a-3: Containment Pressure



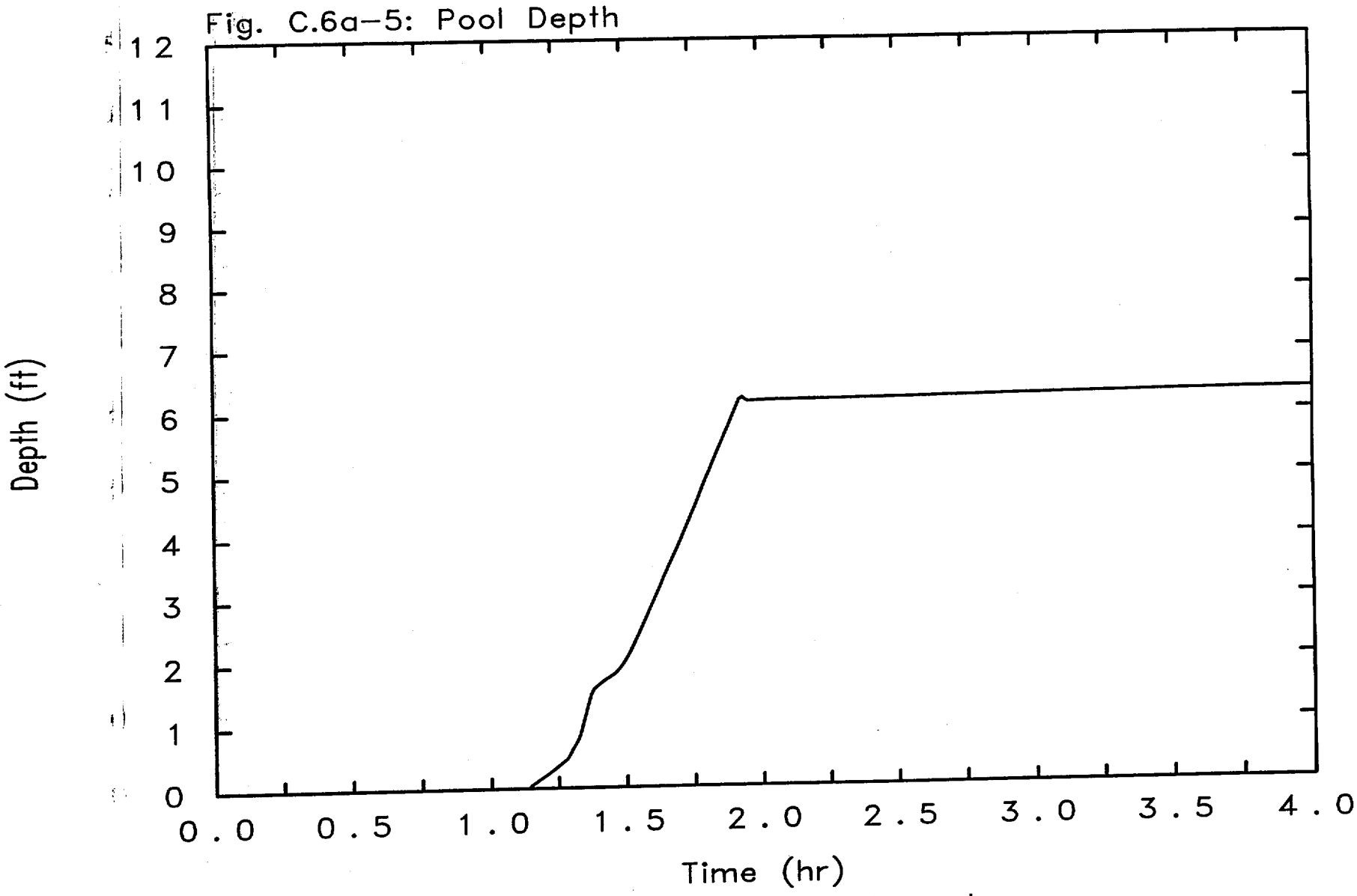
LOSP, LOFW, PORV Held Open – Ice Cond Containment
HWJPCZENM 08/23/99 15:33:26 MELCOR PC
CVH-P.070

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



LOSP, LOFW, PORV Held Open - Ice Cond Containment
HWJPCZENM 08/23/99 15:33:26 MELCOR PC
CVH-TVAP.070

Fig. C.6a-5: Pool Depth



LOSP, LOFW, PORV Held Open - Ice Cond Containment
HWJPCZENM 08/23/99 15:33:26 MELCOR PC
CVH-LIQLEV.020

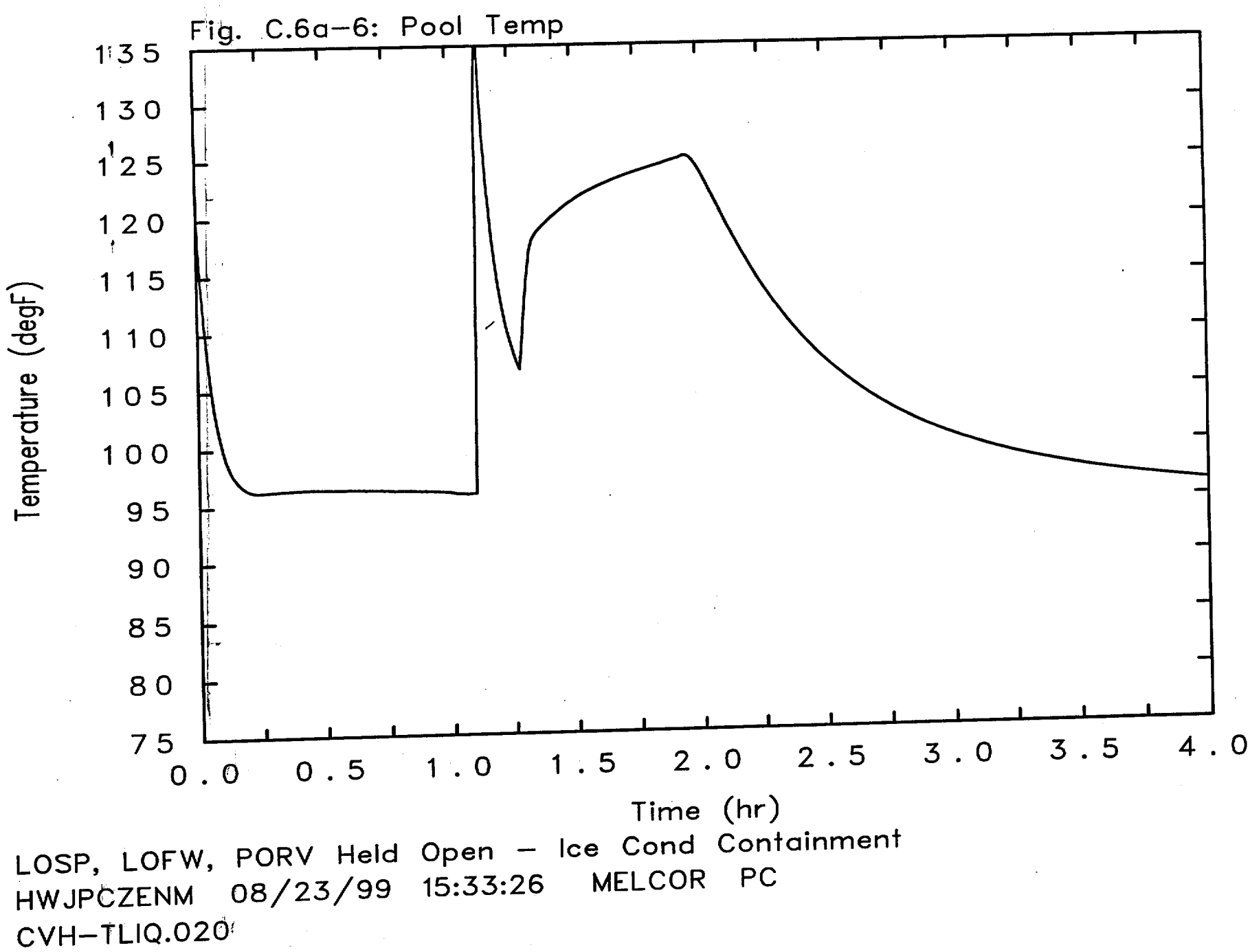
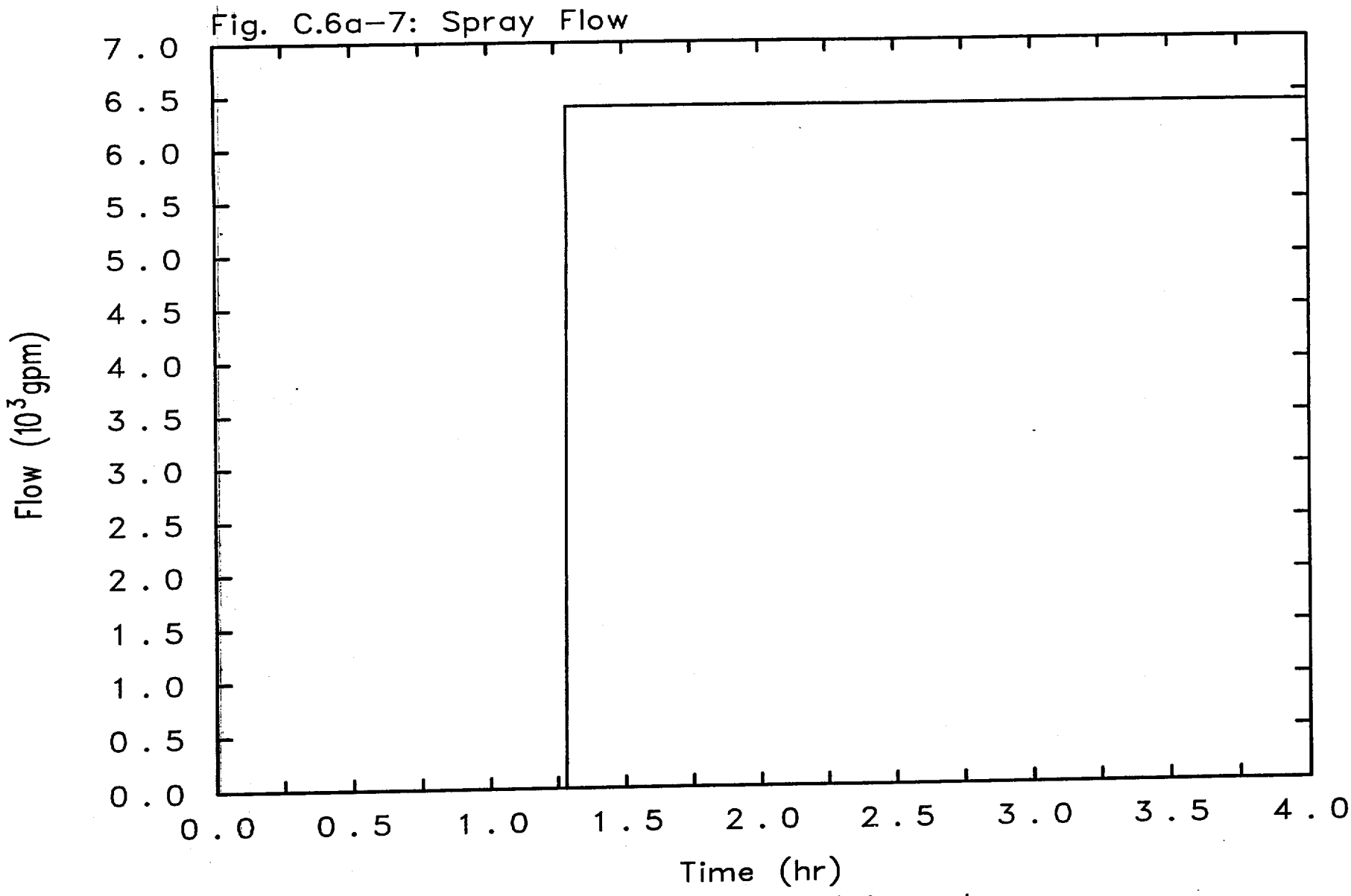


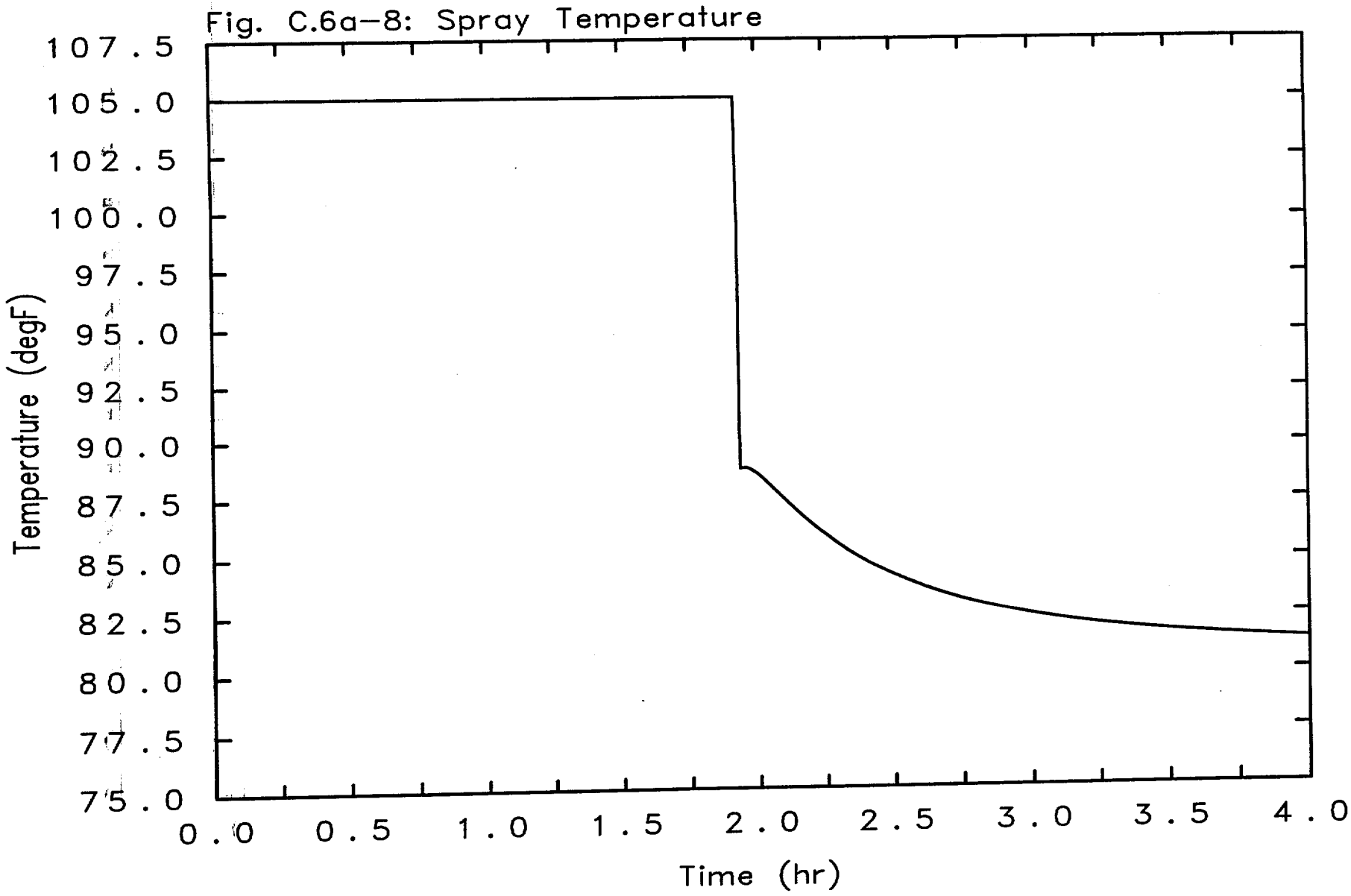
Fig. C.6a-6: Pool Temp
Temperature (degF)
135
130
125
120
115
110
105
100
95
90
85
80
75
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
Time (hr)
LOSP, LOFW, PORV Held Open - Ice Cond Containment
HWJPCZENM 08/23/99 15:33:26 MELCOR PC
CVH-TLIQ.020

Fig. C.6a-7: Spray Flow



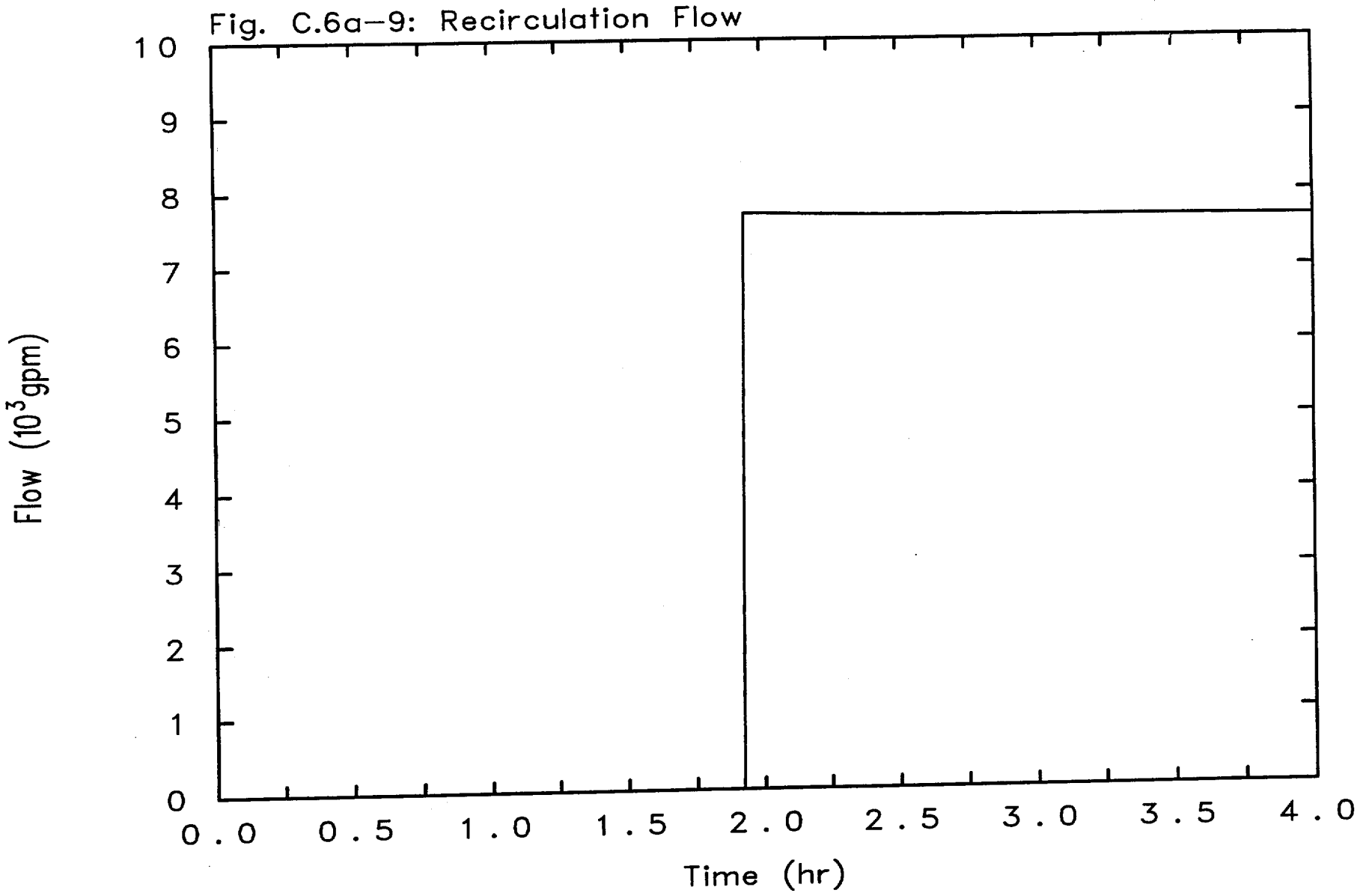
LOSP, LOFW, PORV Held Open – Ice Cond Containment
HWJPCZENM 08/23/99 15:33:26 MELCOR PC
CFVALU.300

Fig. C.6a-8: Spray Temperature



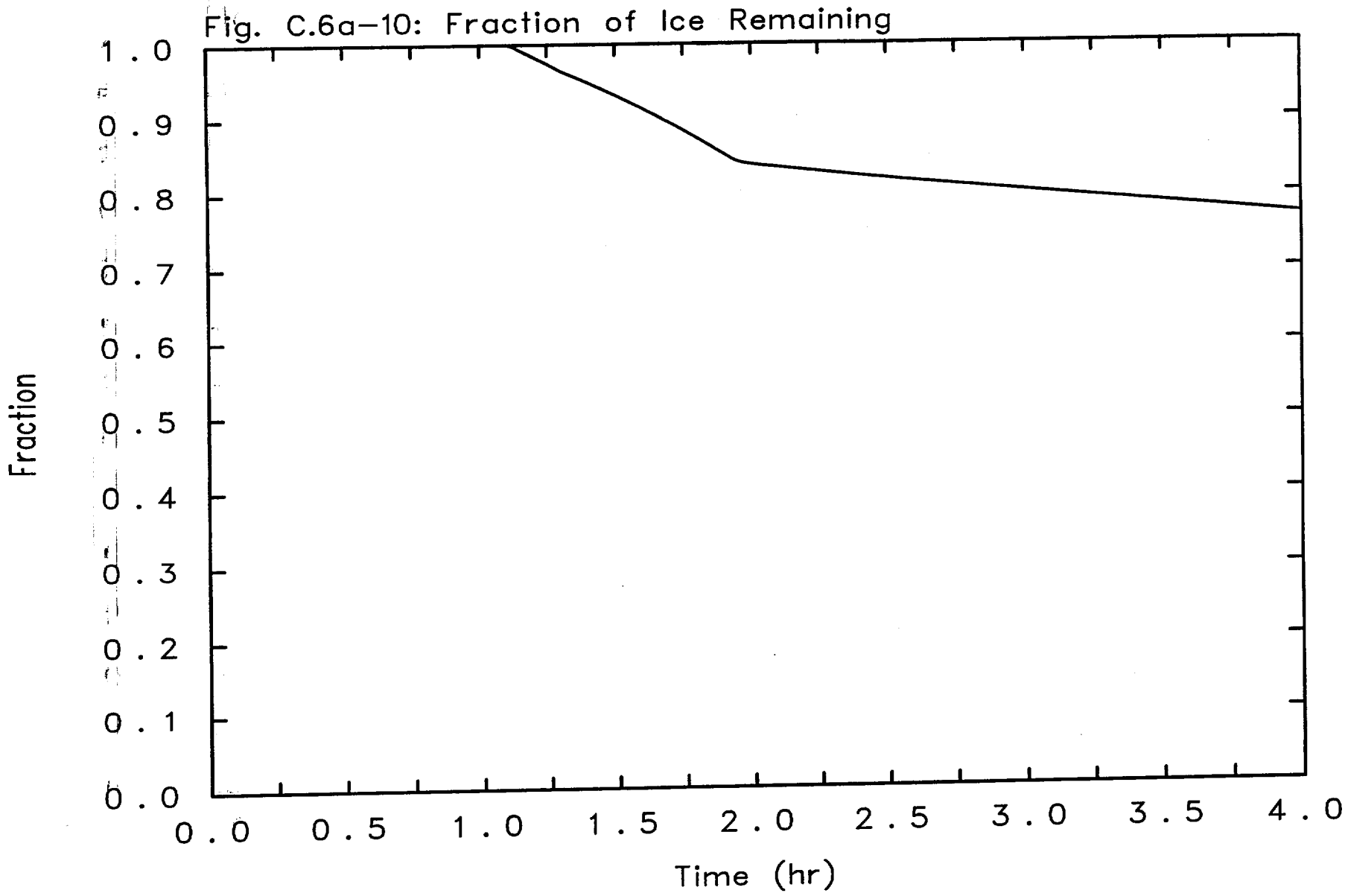
LOSP, LOFW, PORV Held Open – Ice Cond Containment
HWJPCZENM 08/23/99 15:33:26 MELCOR PC
CFVALU.304

Fig. C.6a–9: Recirculation Flow



LOSP, LOFW, PORV Held Open – Ice Cond Containment
HWJPCZENM 08/23/99 15:33:26 MELCOR PC
CFVALU.542

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



LOSP, LOFW, PORV Held Open – Ice Cond Containment
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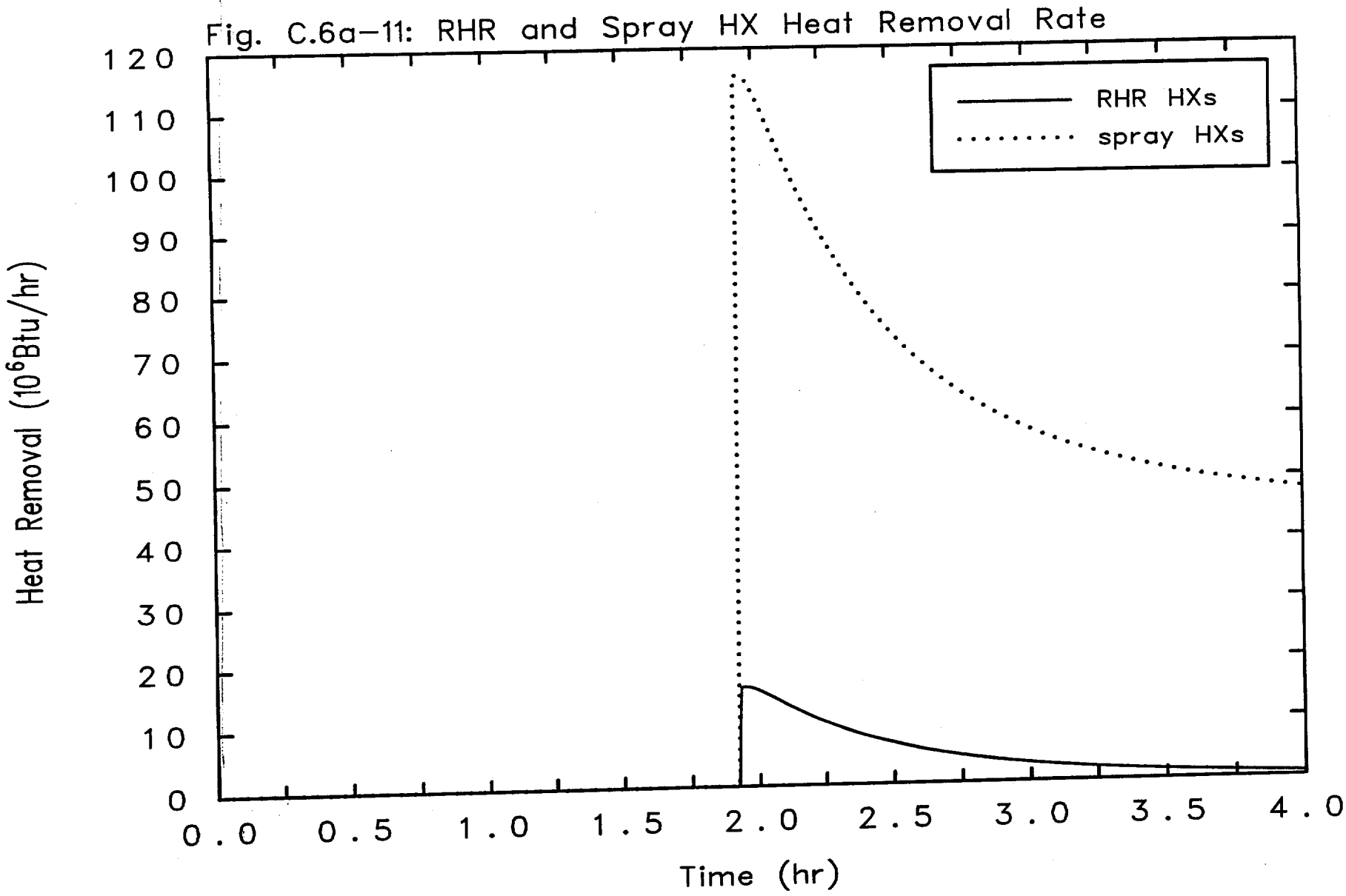
CFVALU.262

Fig. C.6a-11: RHR and Spray HX Heat Removal Rate



LOSP, LOFW, PORV Held Open – Ice Cond Containment
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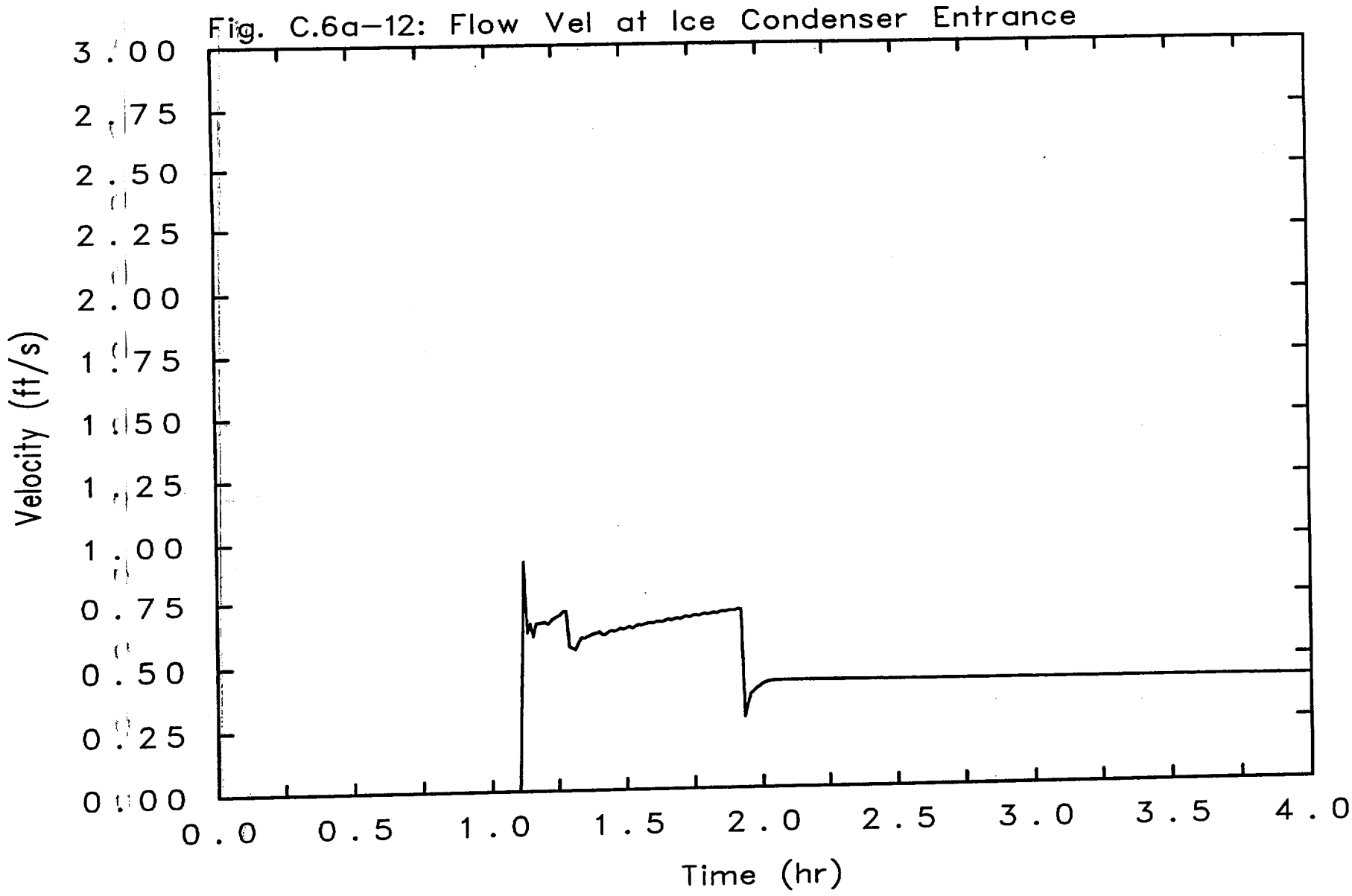
Fig. C.6a–12: Flow Vel at Ice Condenser Entrance



LOSP, LOFW, PORV Held Open – Ice Cond Containment
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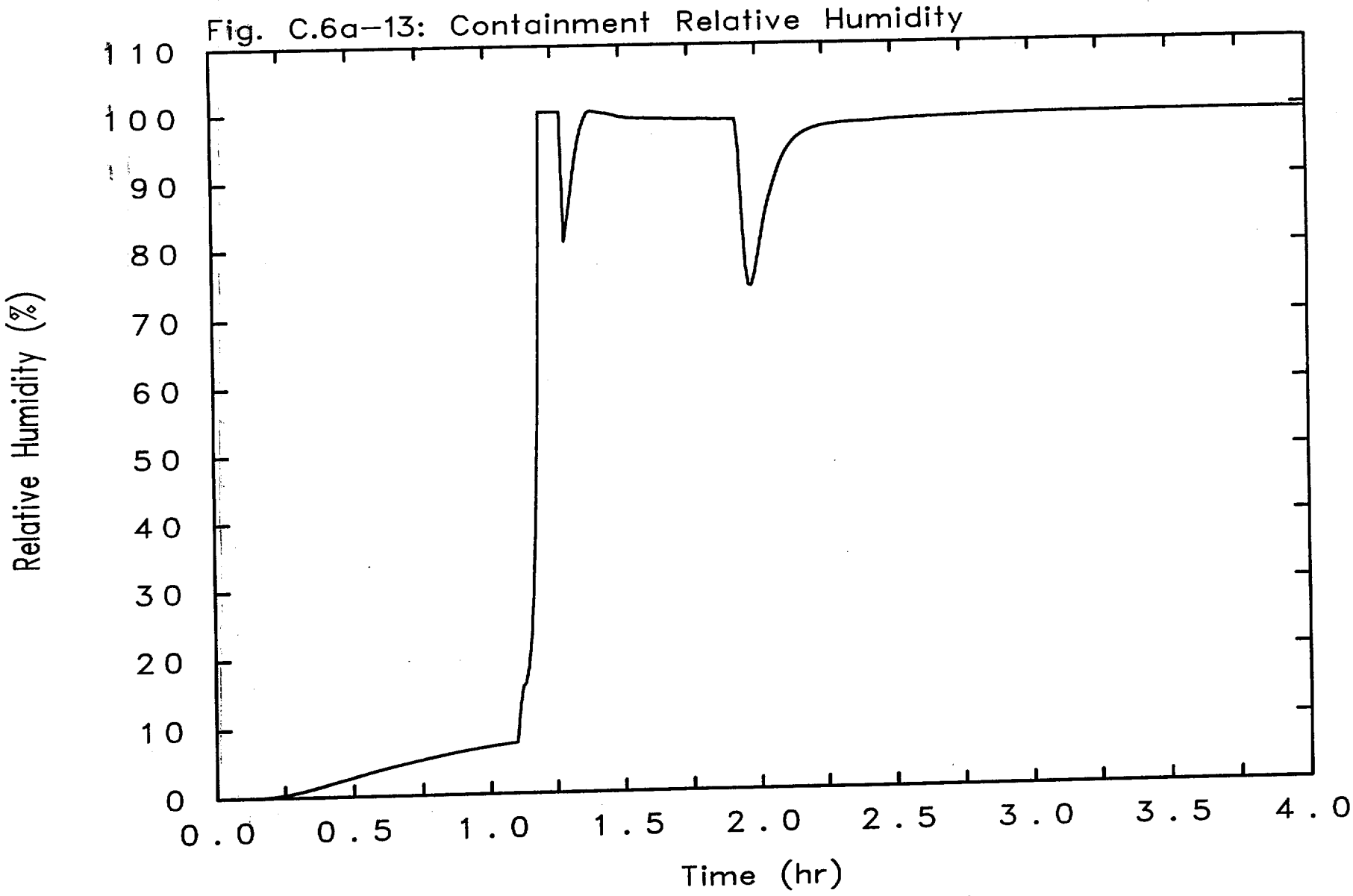
FL–VELVAP.004

Fig. C.6a–13: Containment Relative Humidity



LOSP, LOFW, PORV Held Open – Ice Cond Containment
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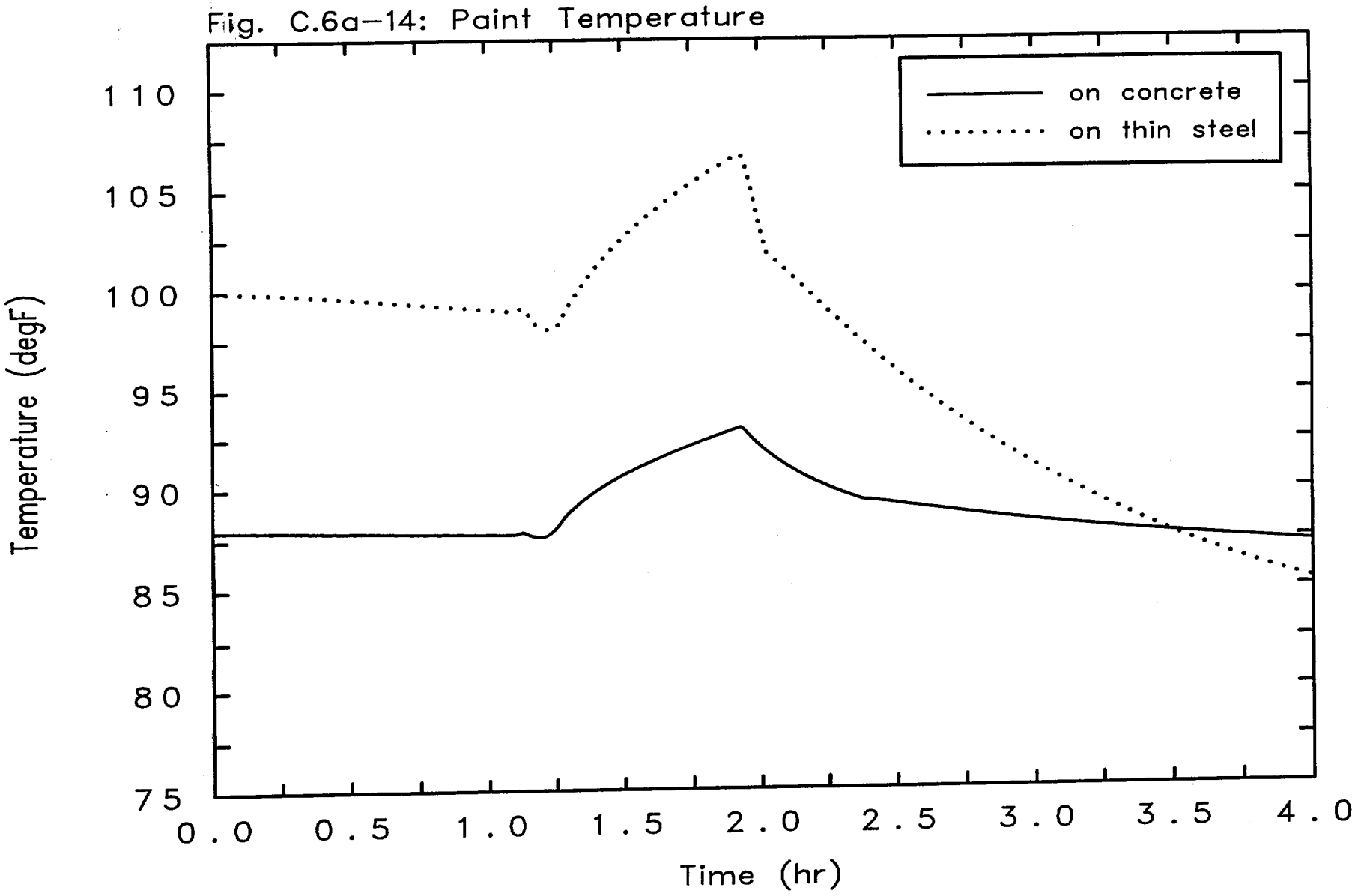
CFVALU.536

Fig. C.6a–14: Paint Temperature



LOSP, LOFW, PORV Held Open – Ice Cond Containment
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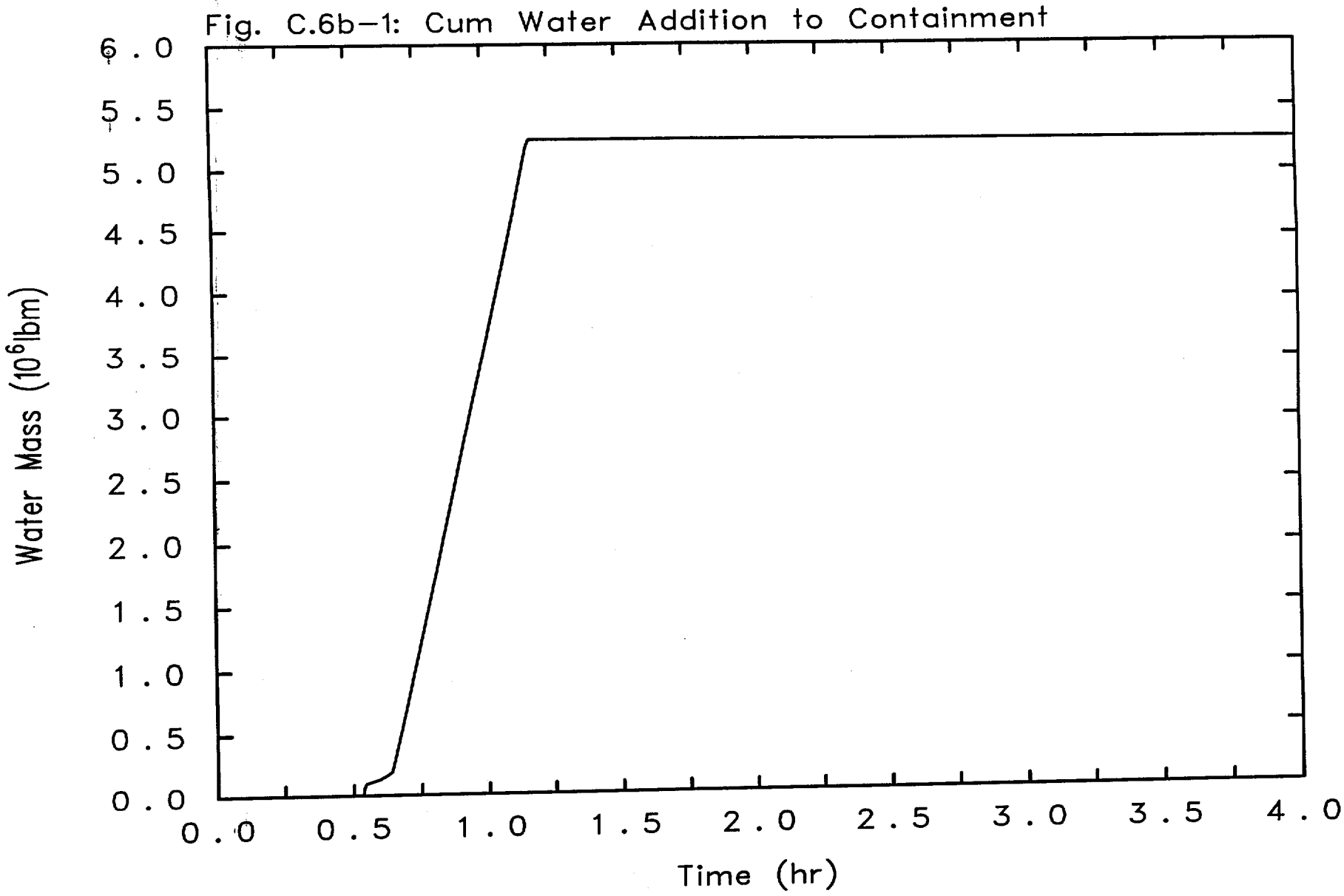
Fig. C.6b-1: Cum Water Addition to Containment



LOSP, LOFW, Fast Cooldown – Ice Cond Containment
HWJPEMNNM 08/23/99 15:50:29 MELCOR PC
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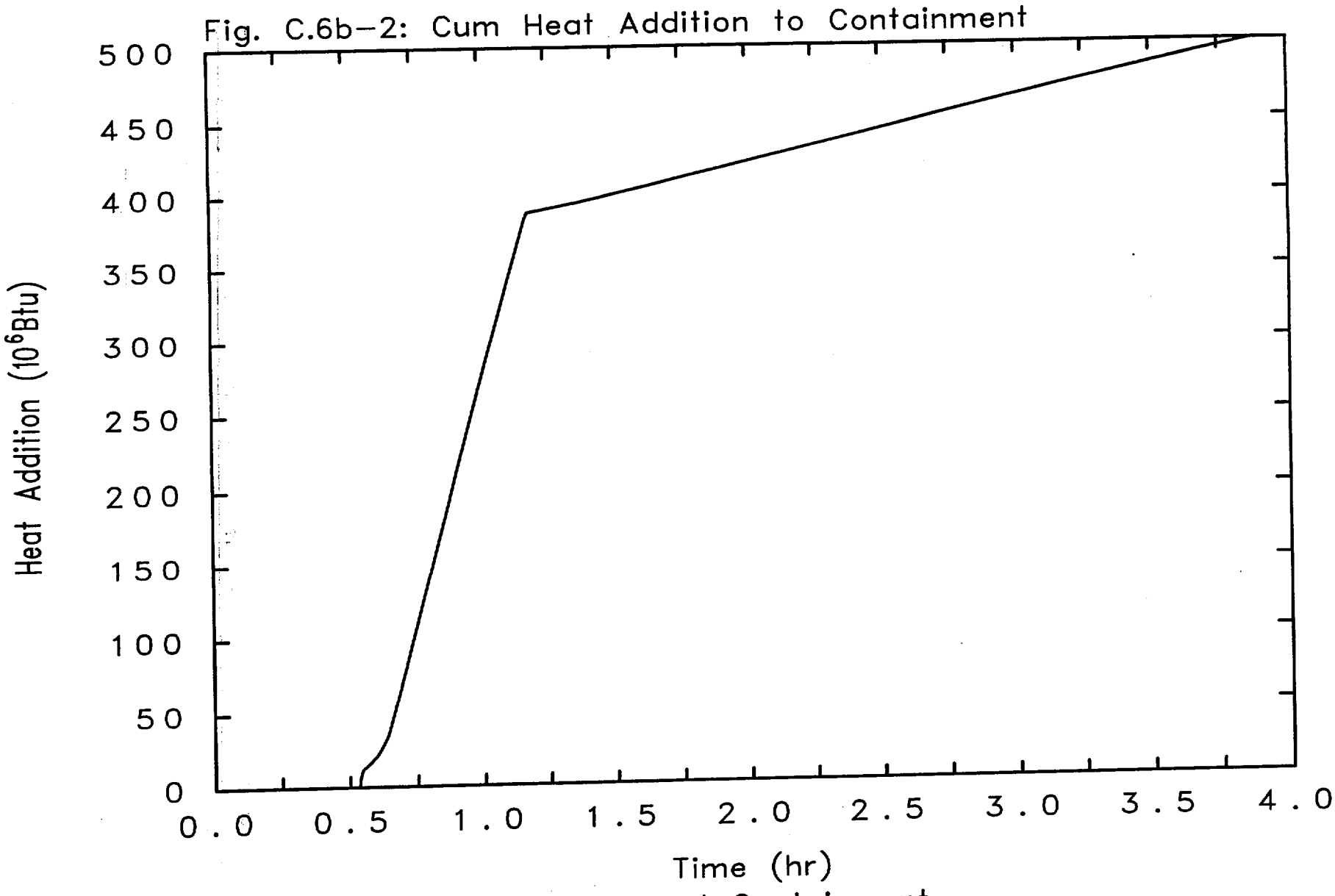
Fig. C.6b-2: Cum Heat Addition to Containment



LOSP, LOFW, Fast Cooldown – Ice Cond Containment
HWJPEMNNM 08/23/99 15:50:29 MELCOR PC
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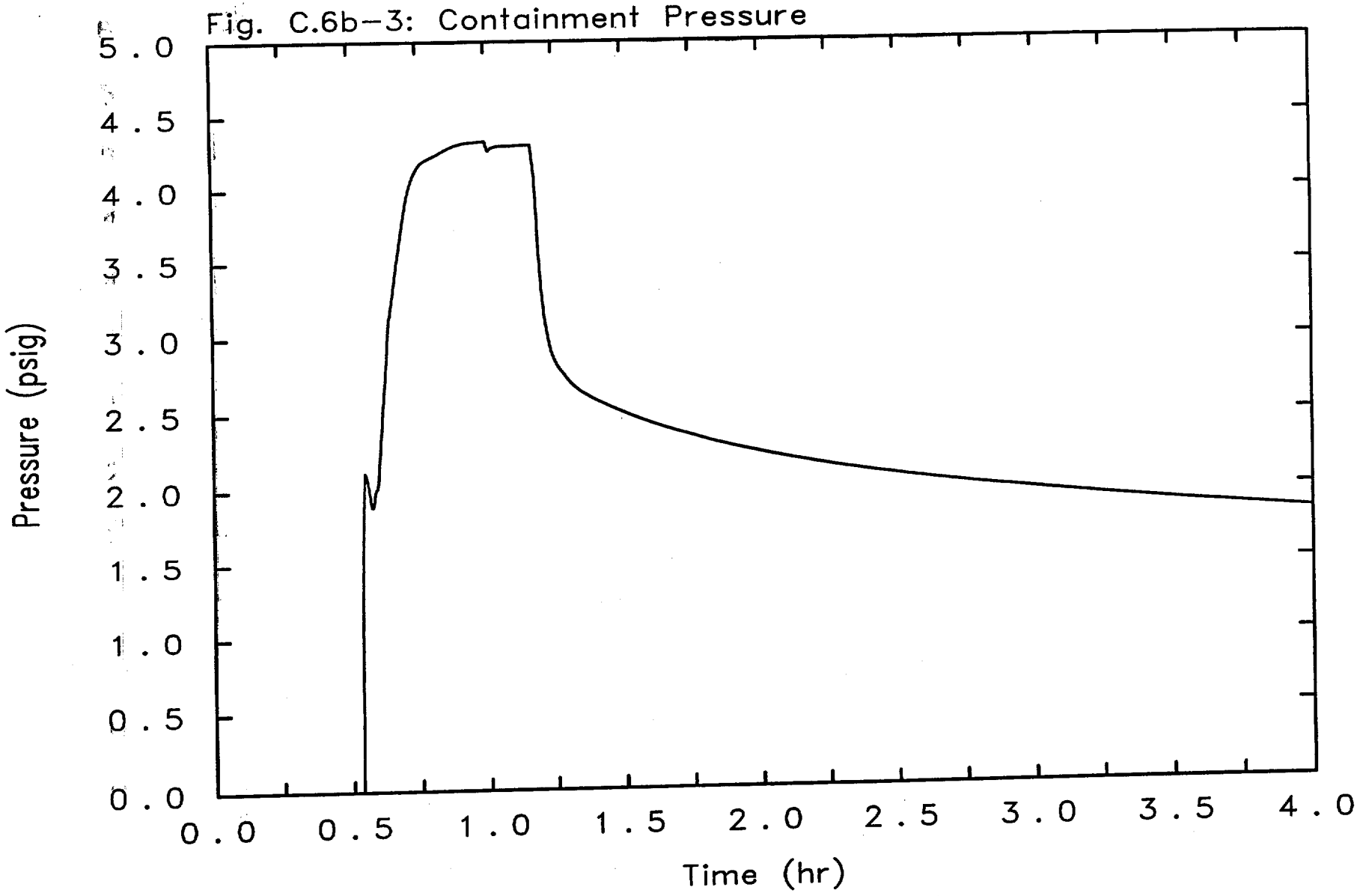
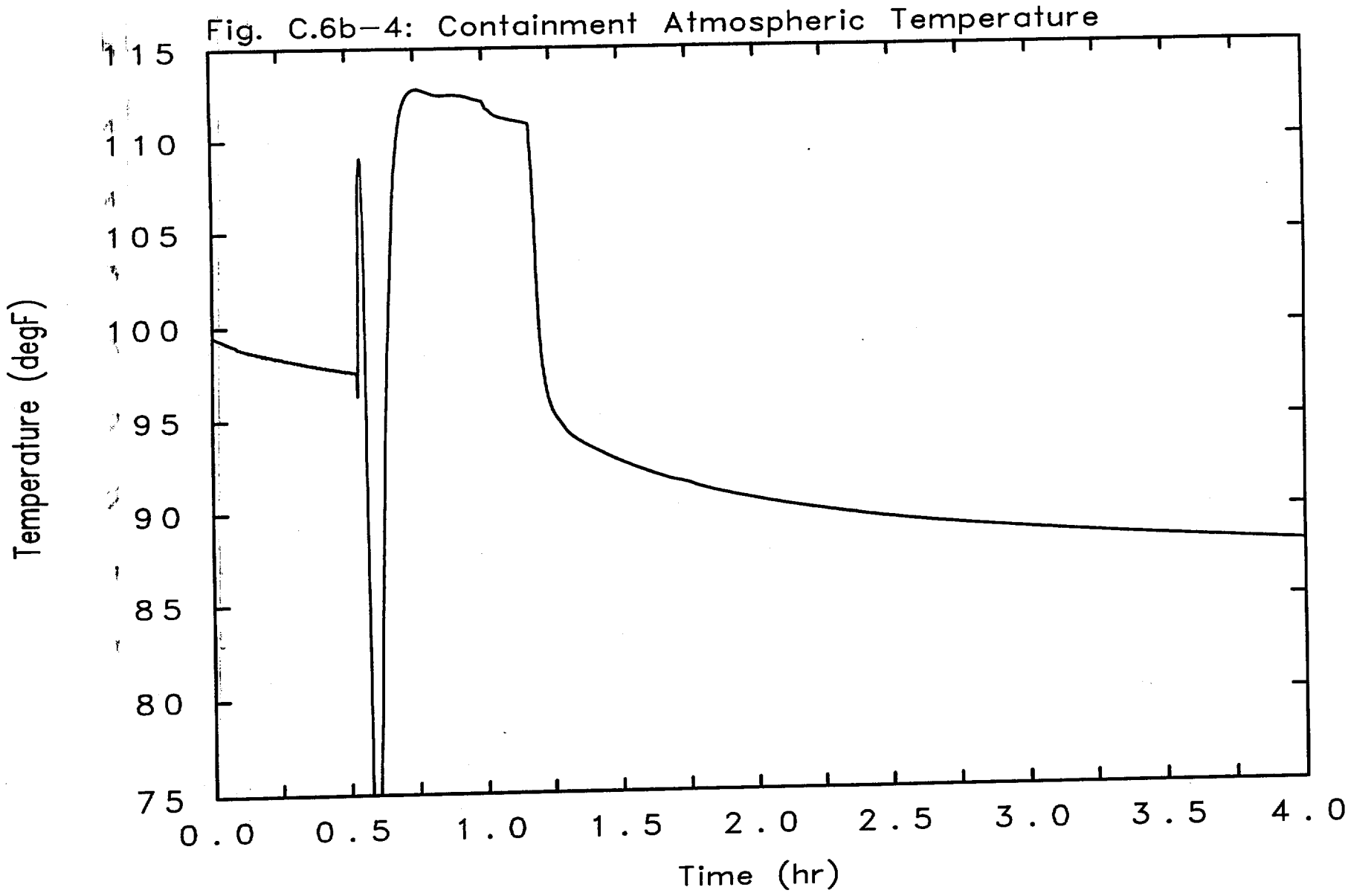
Fig. C.6b-3: Containment Pressure



LOSP, LOFW, Fast Cooldown – Ice Cond Containment
HWJPEMNNM 08/23/99 15:50:29 MELCOR PC
CVH-P.070

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



LOSP, LOFW, Fast Cooldown - Ice Cond Containment
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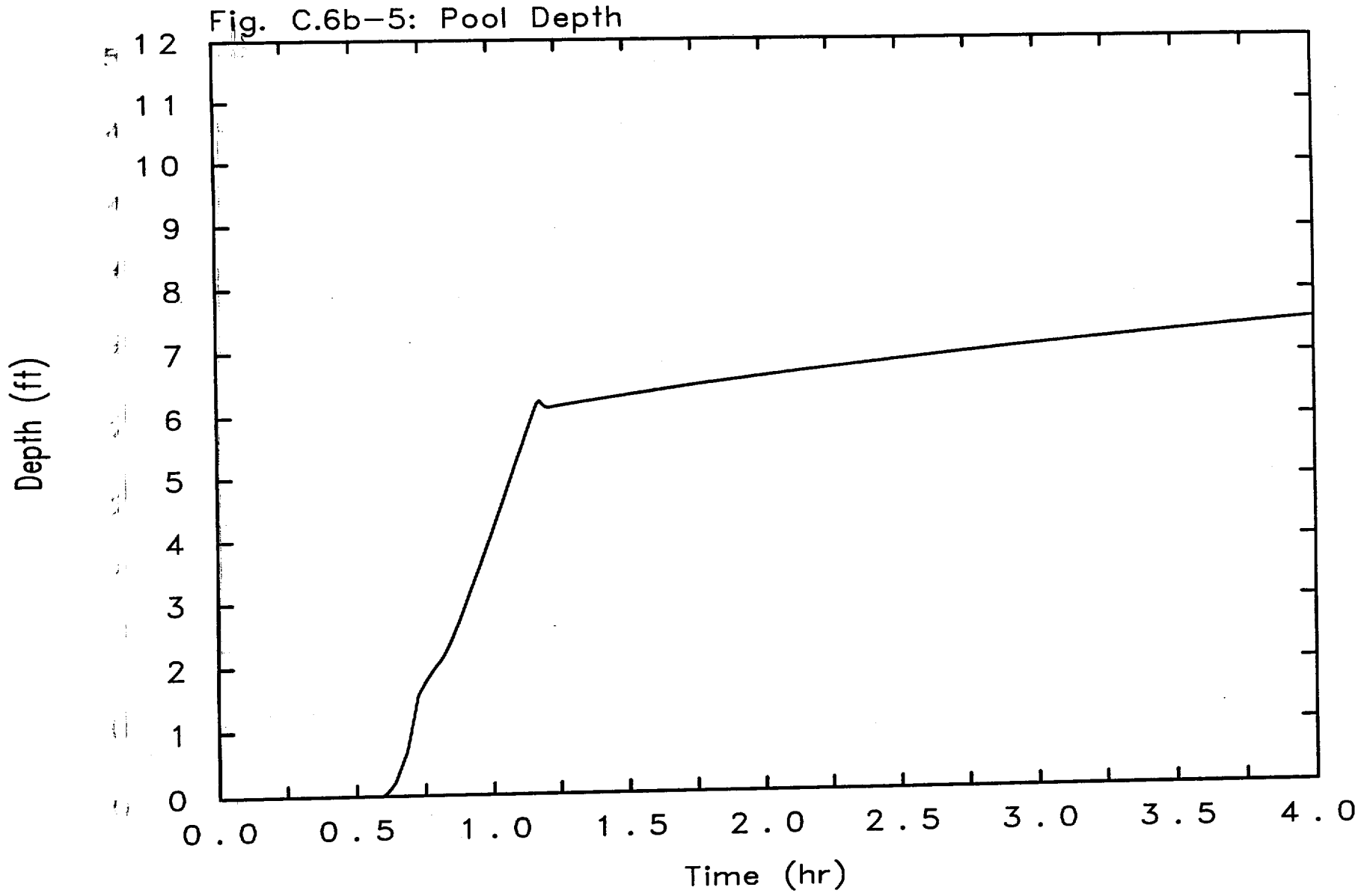
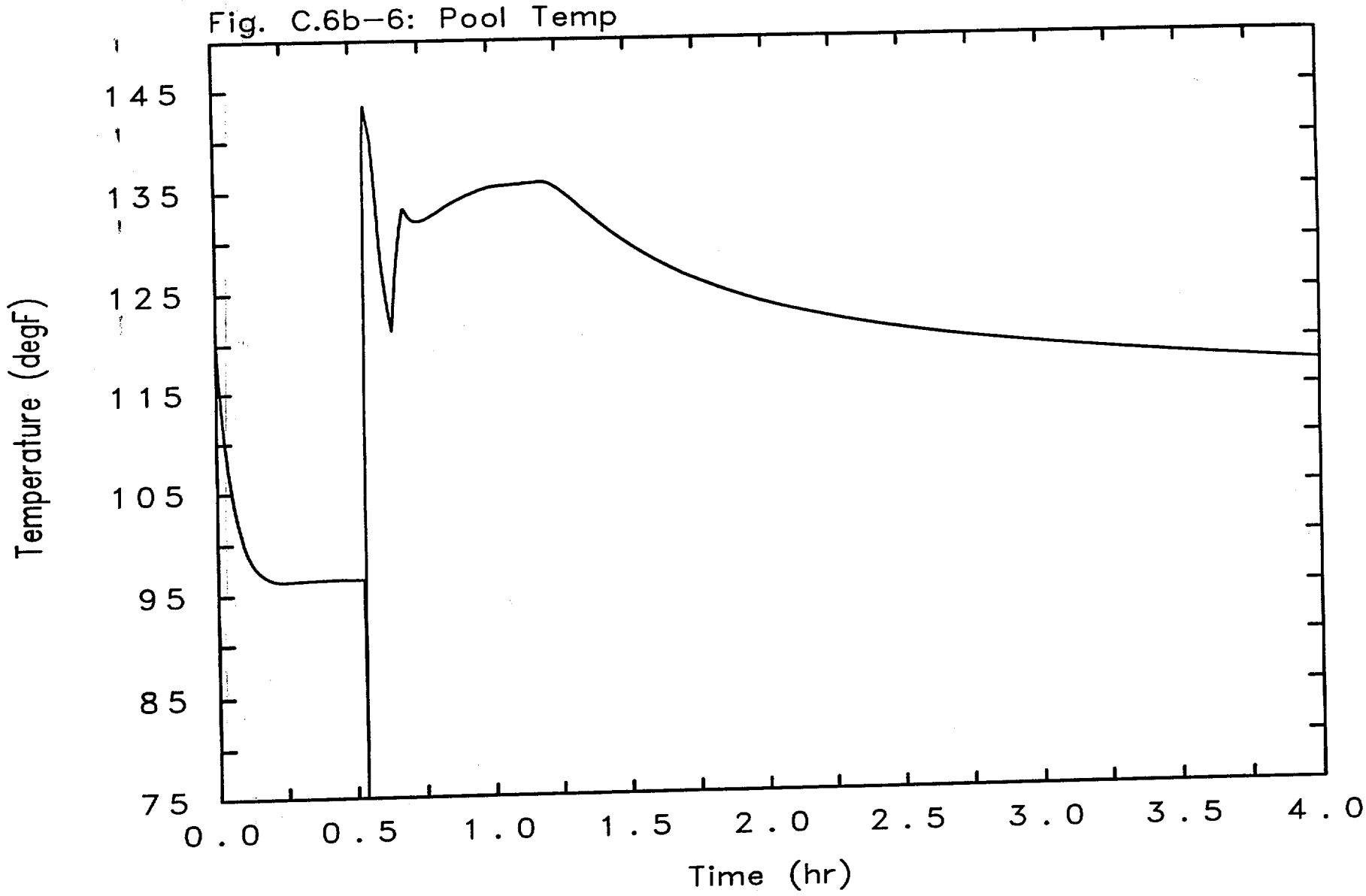
CVH-TVAP.070

Fig. C.6b-5: Pool Depth



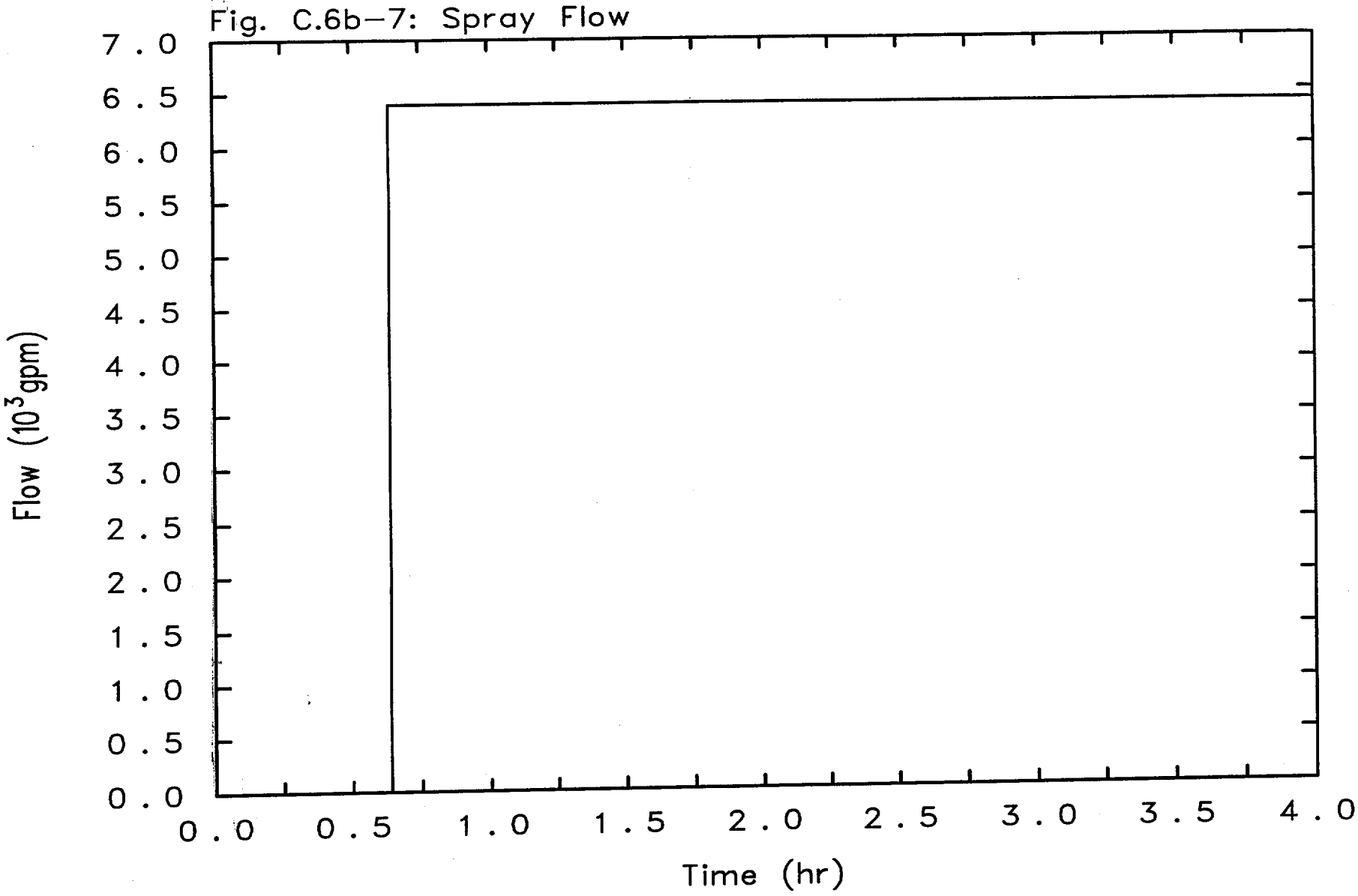
LOSP, LOFW, Fast Cooldown – Ice Cond Containment
HWJPEMNNM 08/23/99 15:50:29 MELCOR PC
CVH-LIQLEV.020

Fig. C.6b-6: Pool Temp



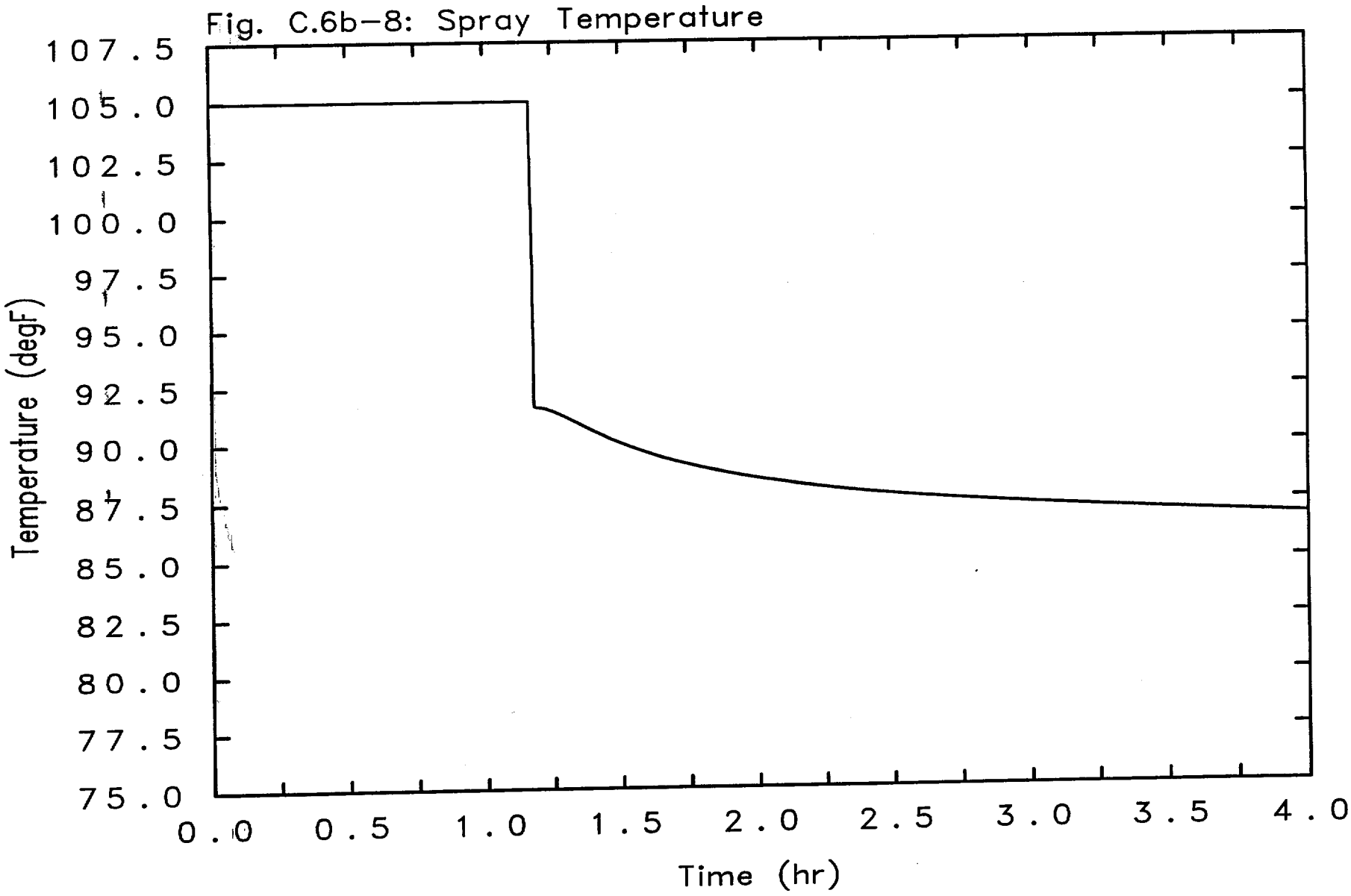
LOSP, LOFW, Fast Cooldown - Ice Cond Containment
HWJPEMNNM 08/23/99 15:50:29 MELCOR PC
CVH-TLIQ.020

Fig. C.6b-7: Spray Flow



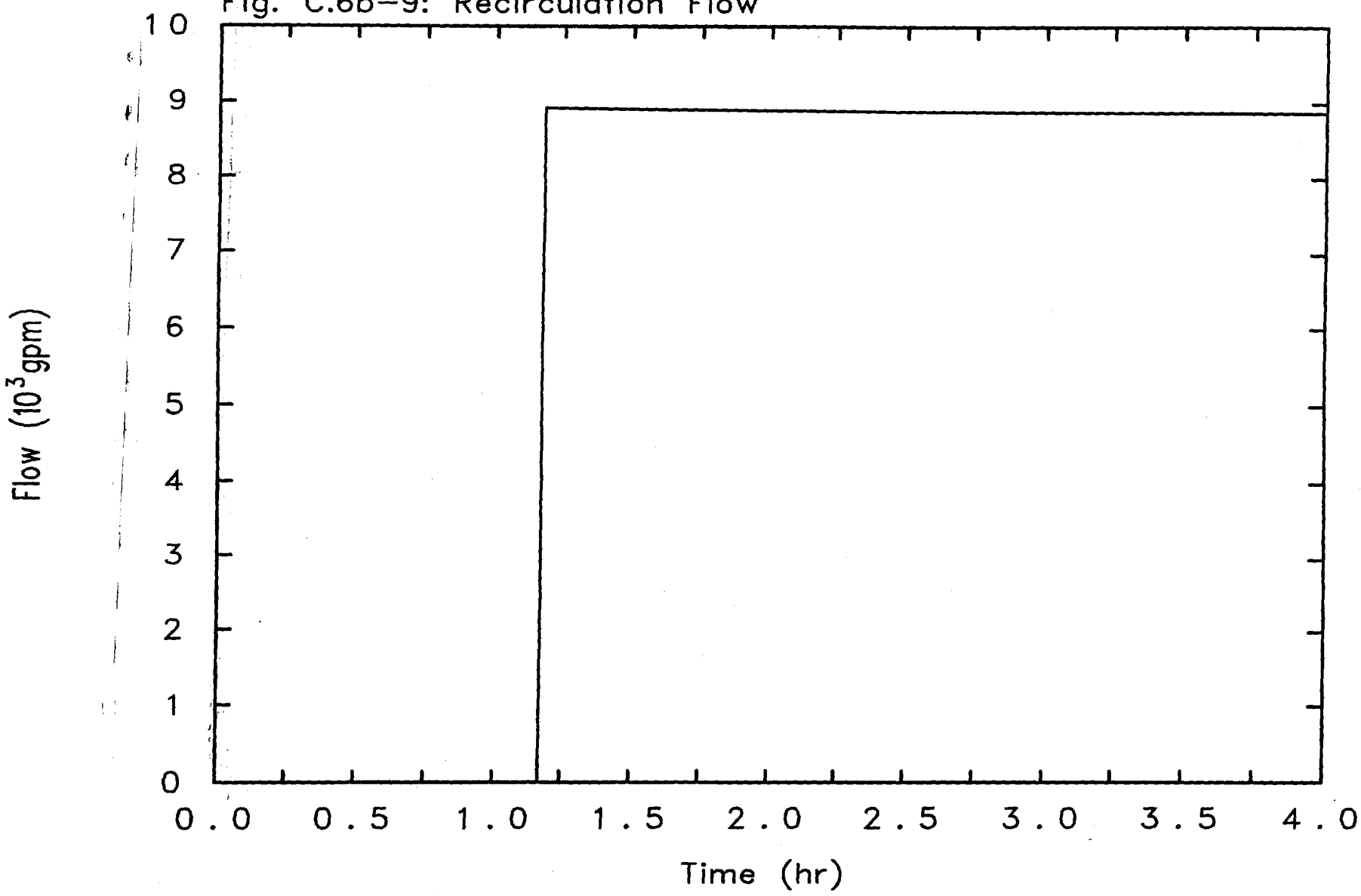
LOSP, LOFW, Fast Cooldown - Ice Cond Containment
HWJPEMNNM 08/23/99 15:50:29 MELCOR PC
CFVALU.300

Fig. C.6b-8: Spray Temperature



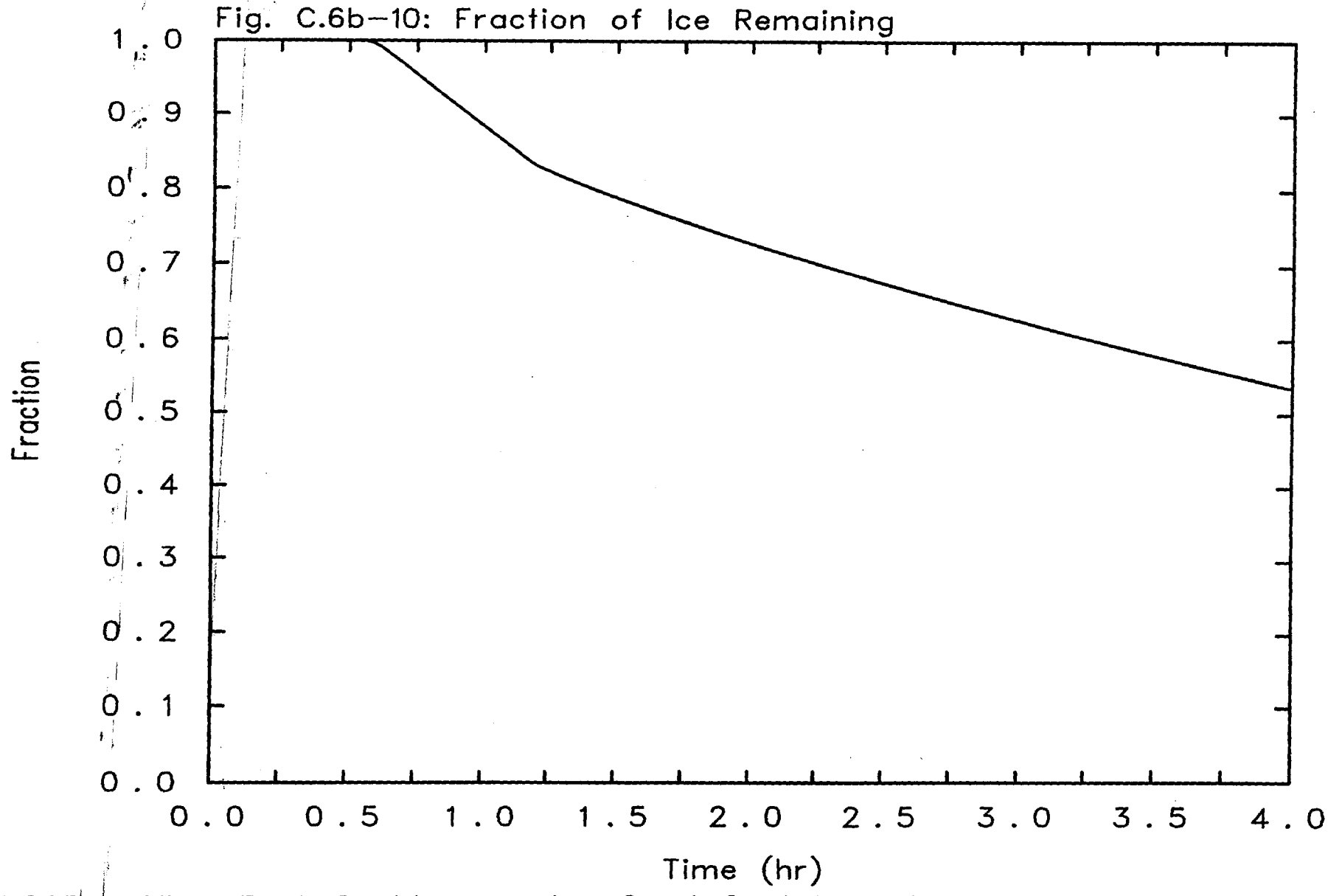
LOSP, LOFW, Fast Cooldown – Ice Cond Containment
HWJPEMNNM 08/23/99 15:50:29 MELCOR PC
CFVALU.304

Fig. C.6b–9: Recirculation Flow



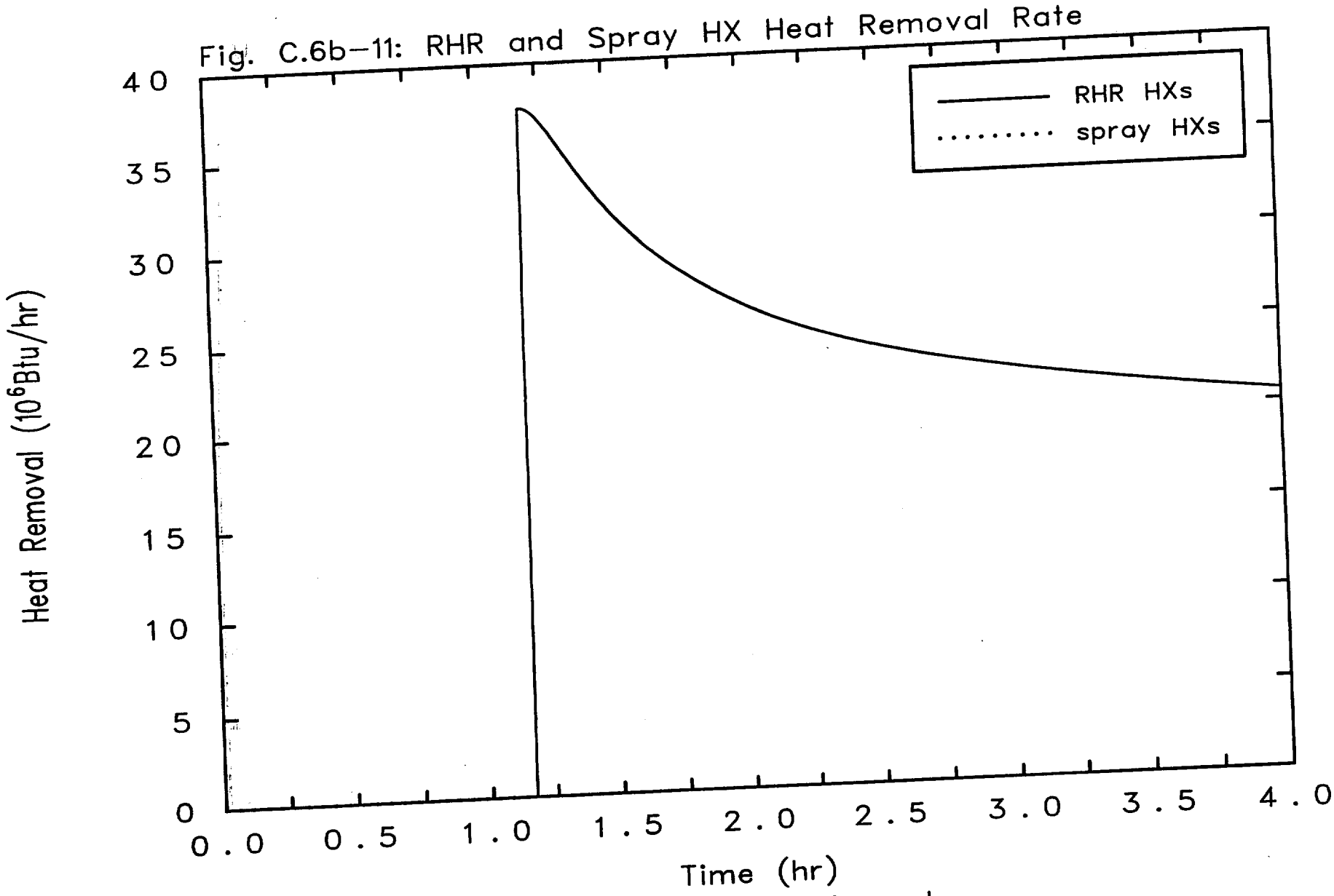
LOSP, LOFW, Fast Cooldown – Ice Cond Containment
HWJPEMNNM 08/23/99 15:50:29 MELCOR PC
CFVALU.542

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



LOSP, LOFW, Fast Cooldown - Ice Cond Containment
HWJPEMNNM 08/23/99 15:50:29 MELCOR PC
CFVALU.262

Fig. C.6b-11: RHR and Spray HX Heat Removal Rate



LOSP, LOFW, Fast Cooldown - Ice Cond Containment
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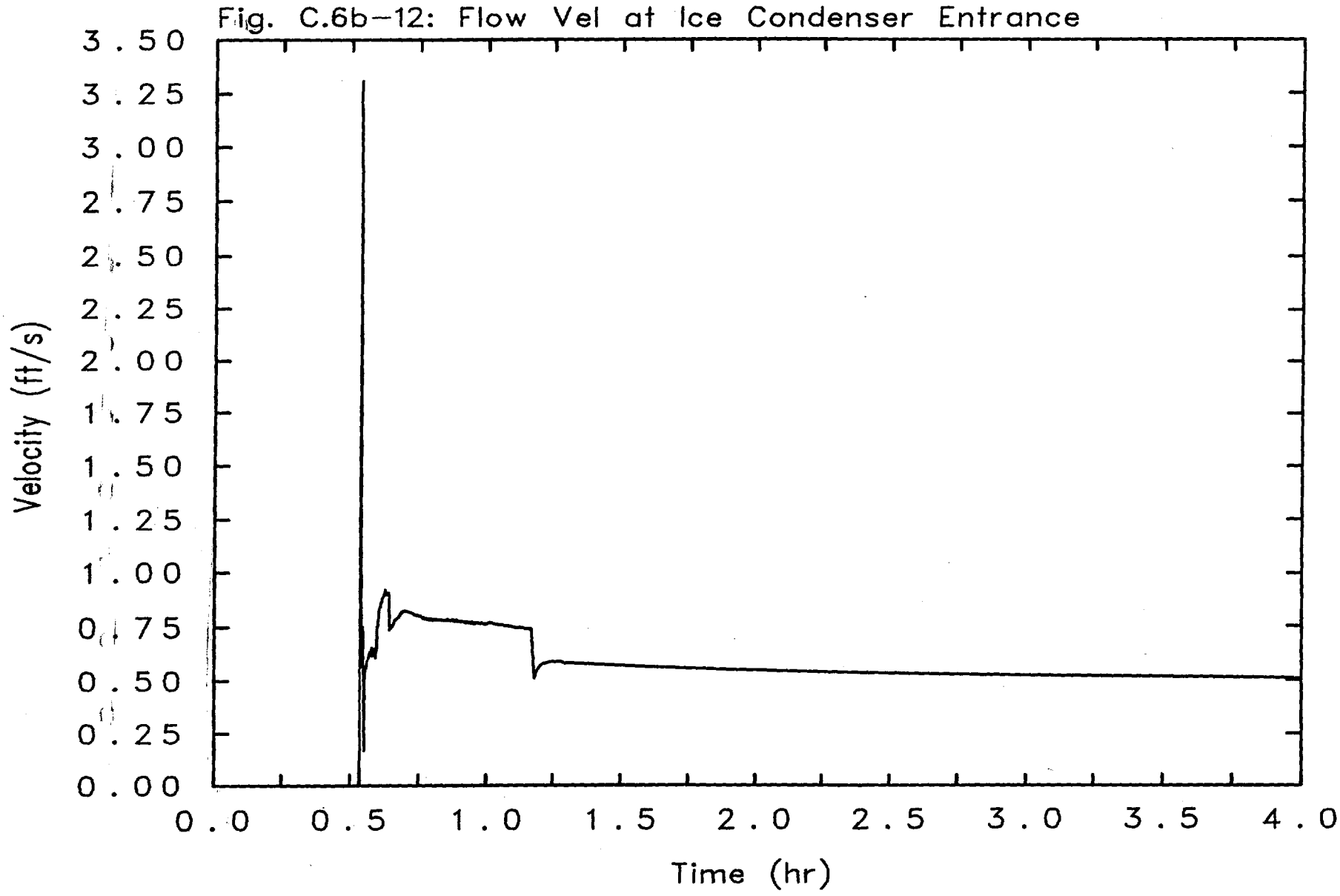
Fig. C.6b-12: Flow Vel at Ice Condenser Entrance



LOSP, LOFW, Fast Cooldown - Ice Cond Containment
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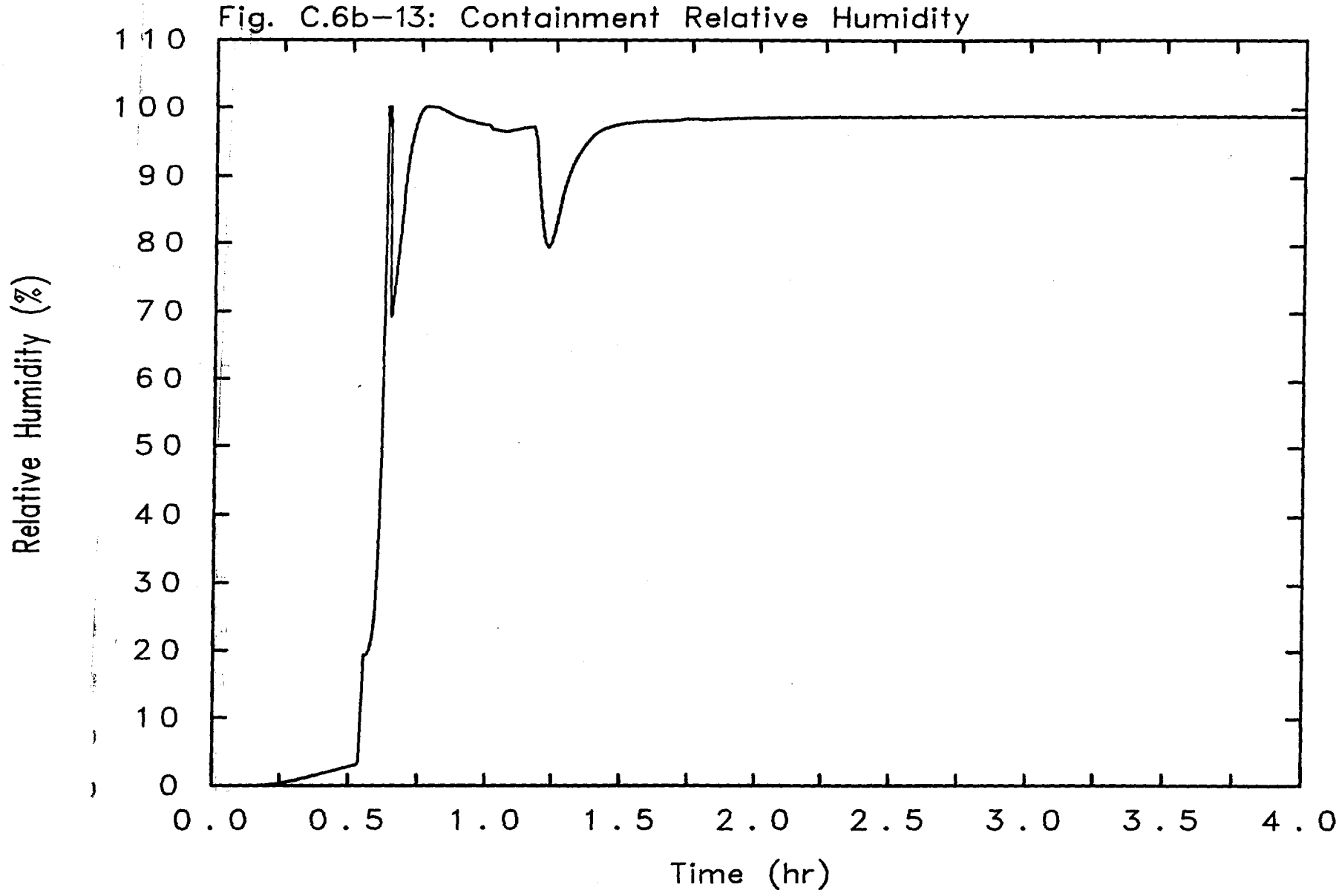
FL-VELVAP.004

Fig. C.6b-13: Containment Relative Humidity



LOSP, LOFW, Fast Cooldown - Ice Cond Containment
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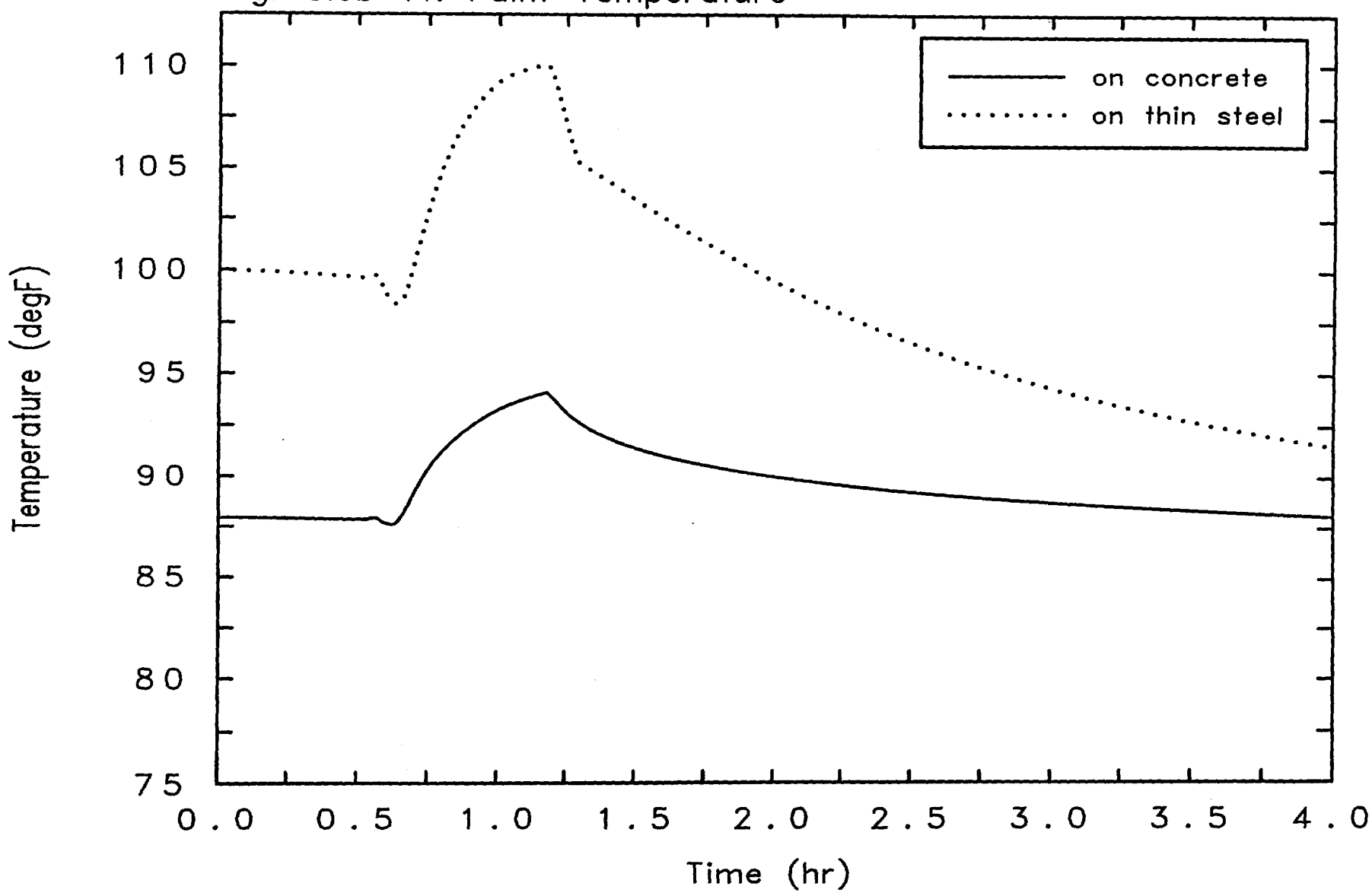
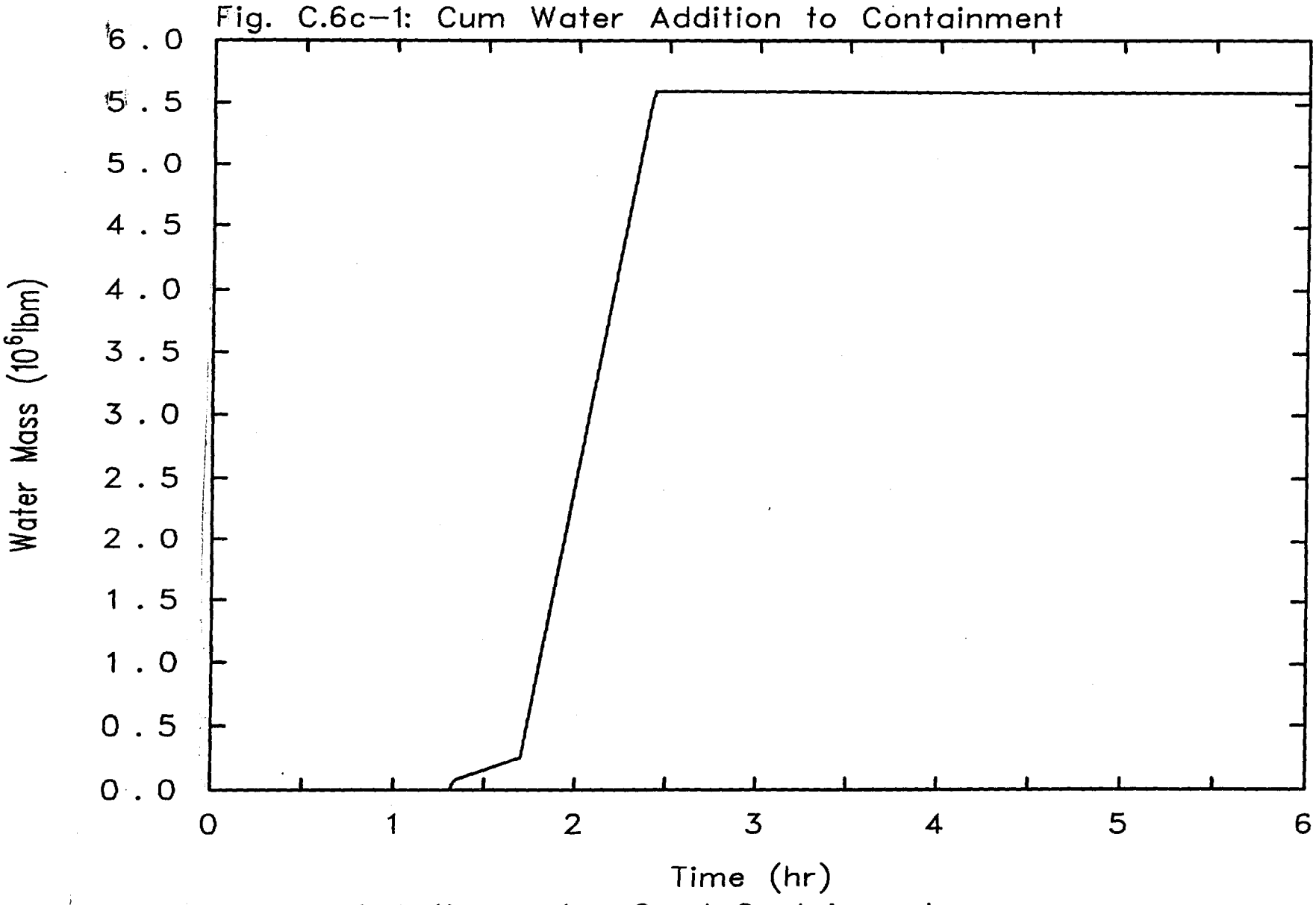
CFVALU.536

Fig. C.6b-14: Paint Temperature



LOSP, LOFW, Fast Cooldown - Ice Cond Containment
HWJPEMNNM 08/23/99 15:50:29 MELCOR PC

Fig. C.6c-1: Cum Water Addition to Containment



LOSP, LOFW, Delayed Action – Ice Cond Containment
HWJQATJNM 08/23/99 16:08:23 MELCOR PC
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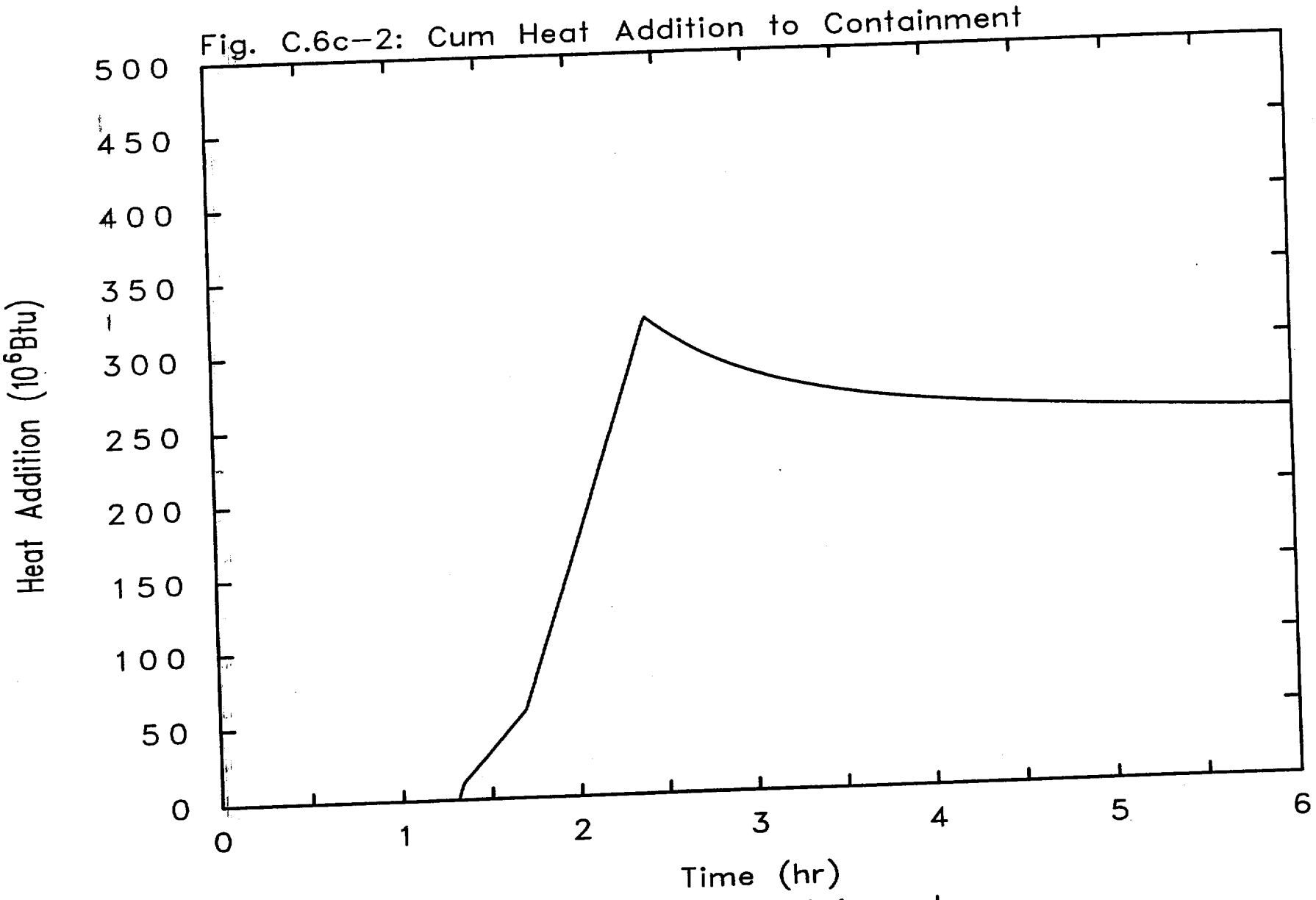
Fig. C.6c-2: Cum Heat Addition to Containment



LOSP, LOFW, Delayed Action - Ice Cond Containment
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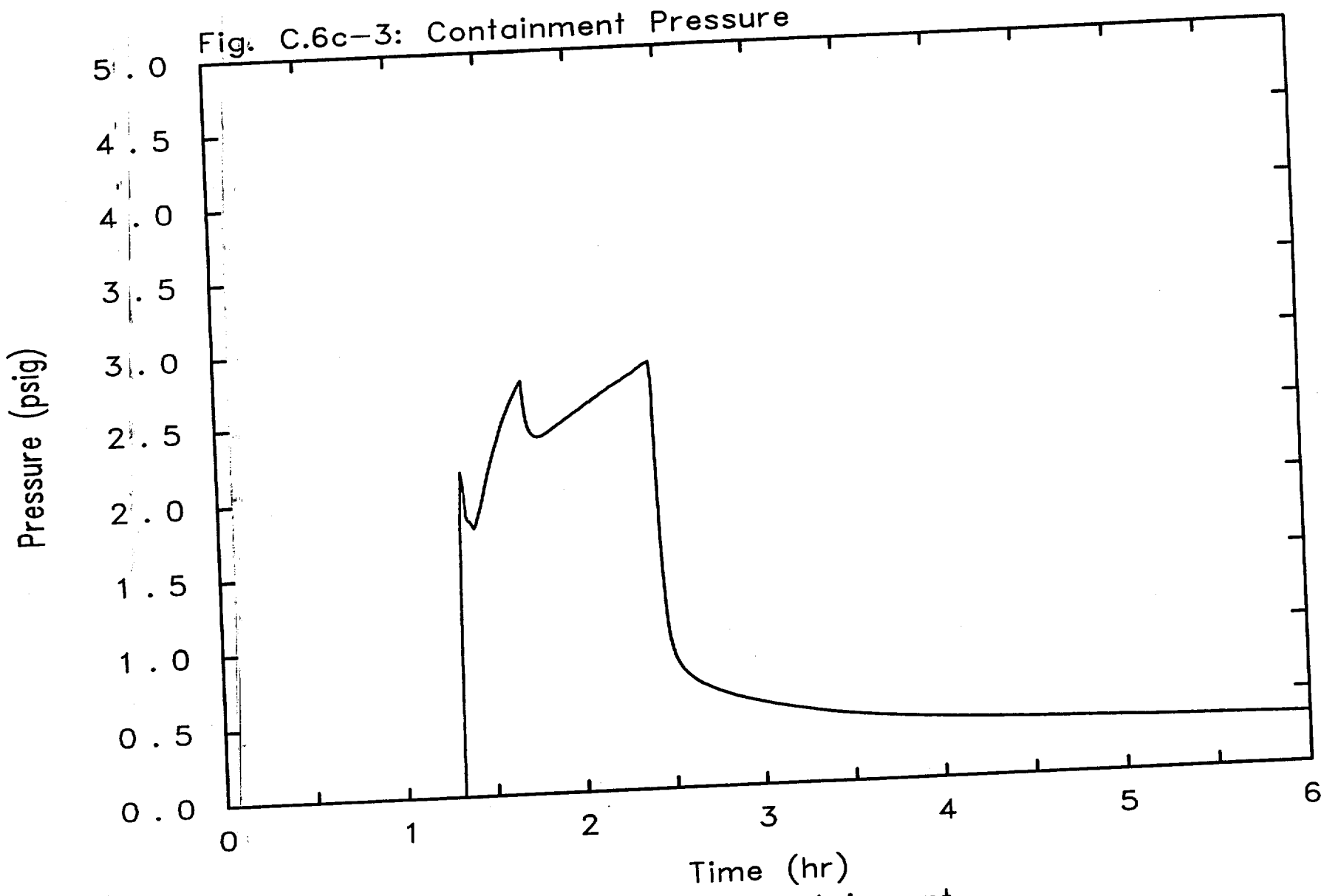
CFVALU.546

Fig. C.6c-3: Containment Pressure



LOSP, LOFW, Delayed Action - Ice Cond Containment
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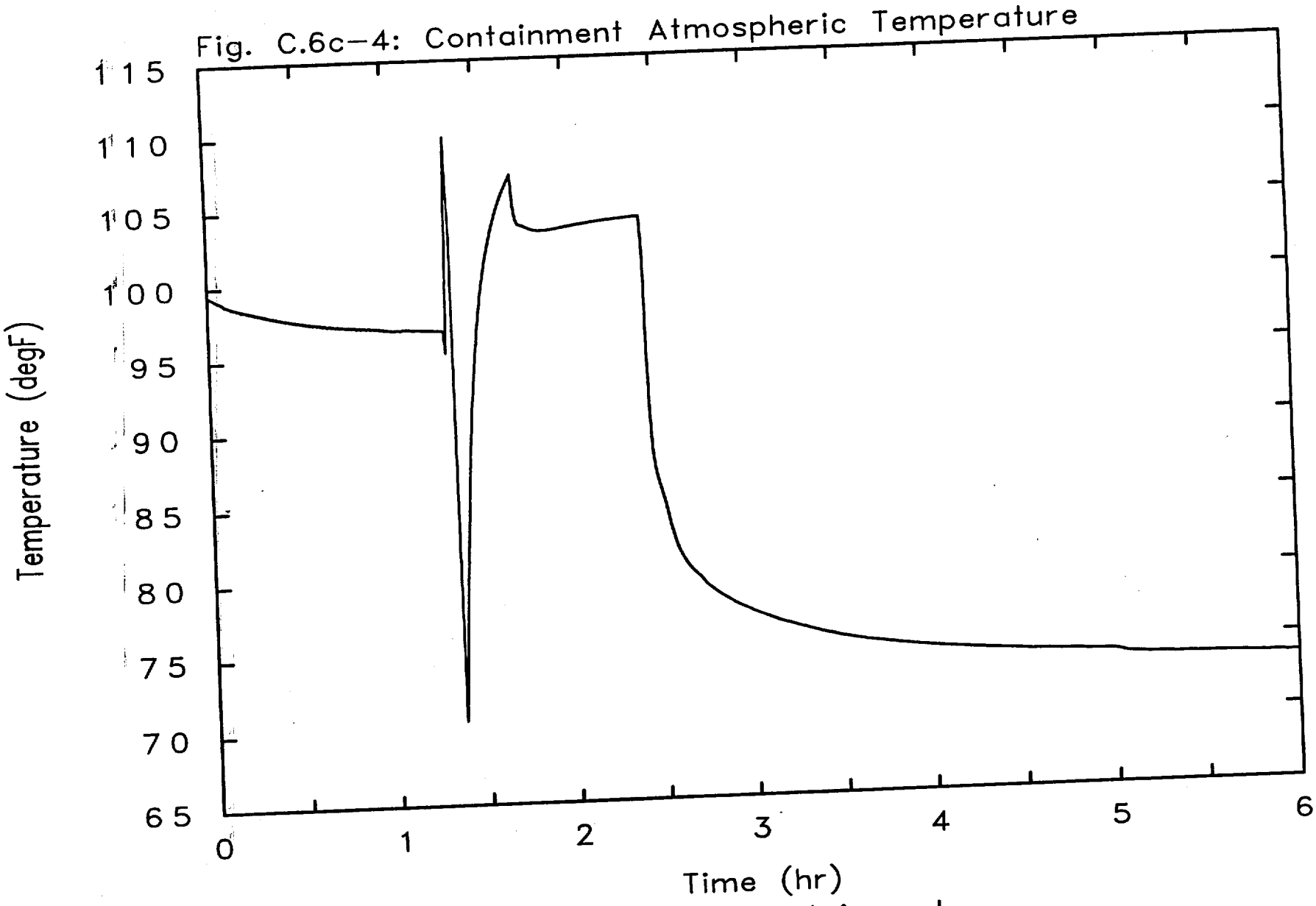
CVH-P.070

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



LOSP, LOFW, Delayed Action - Ice Cond Containment
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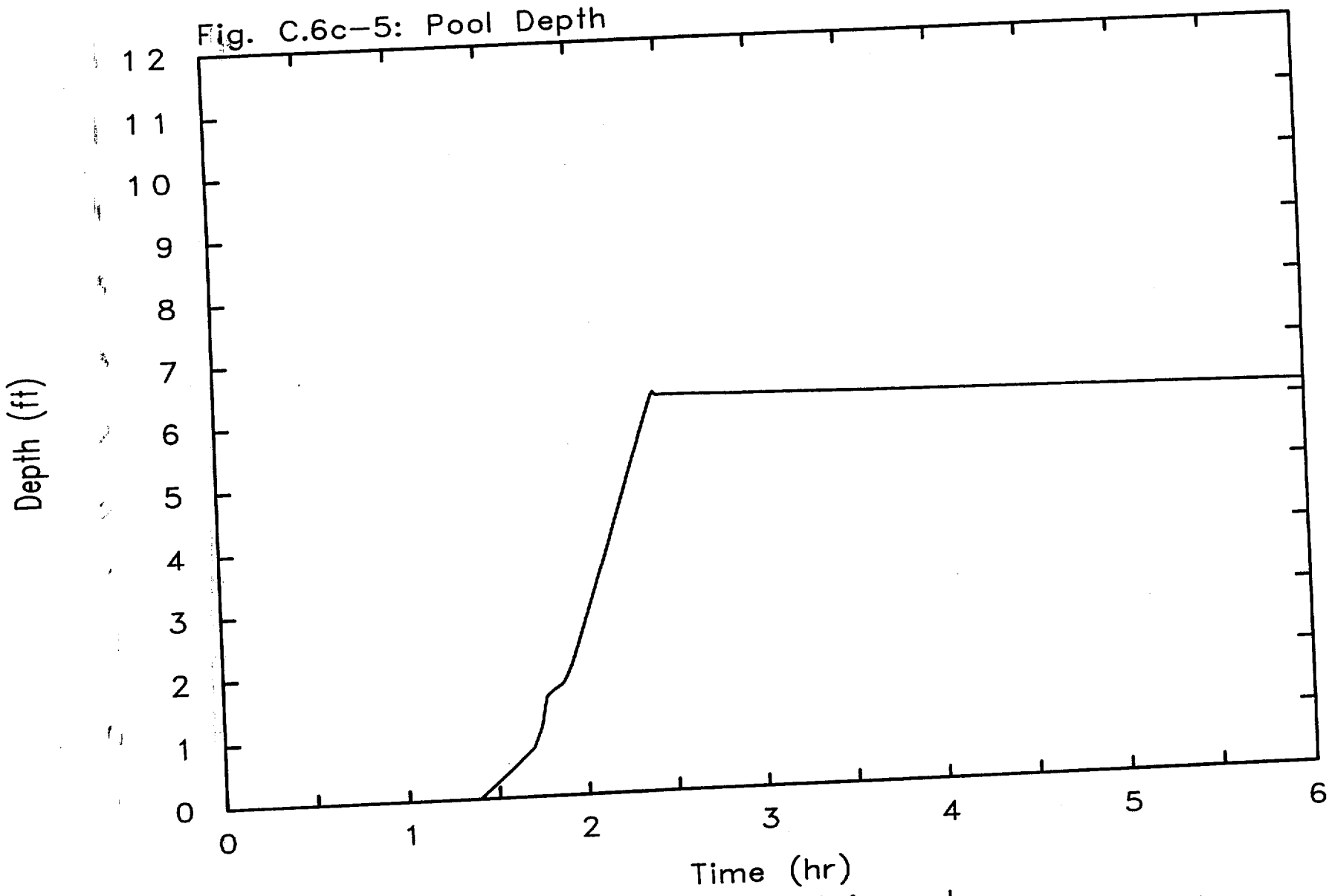
CVH-TVAP.070

Fig. C.6c-5: Pool Depth



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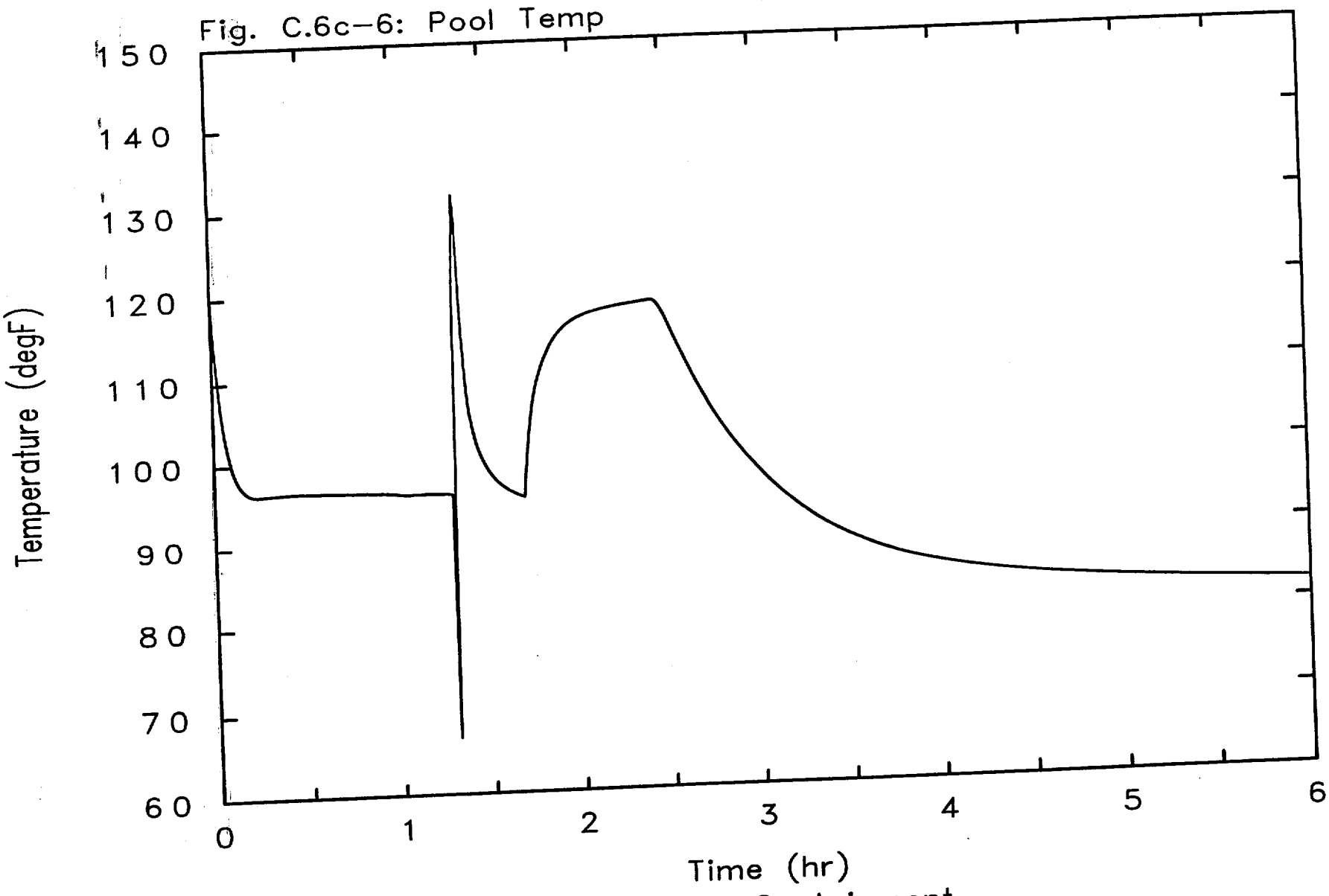

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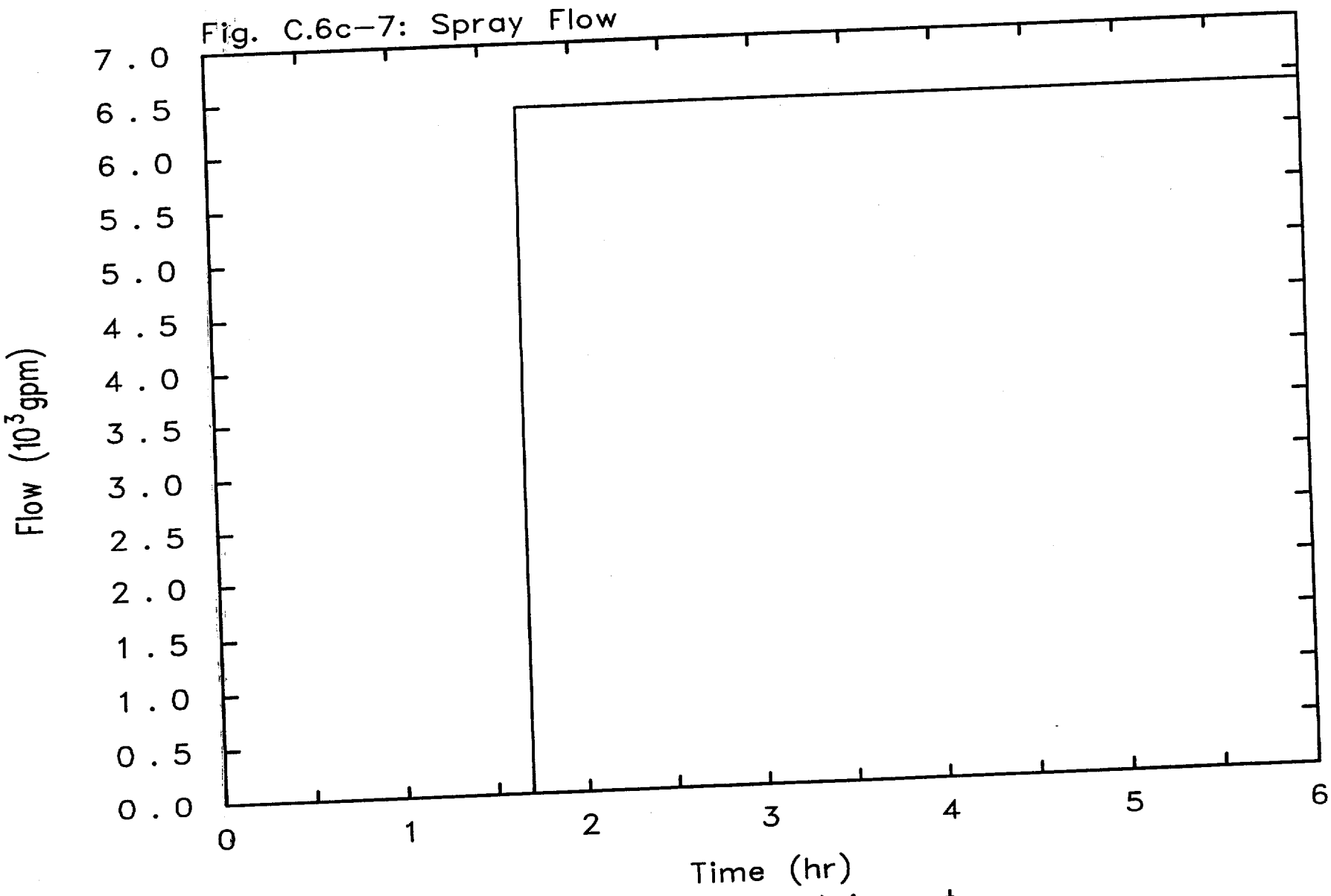

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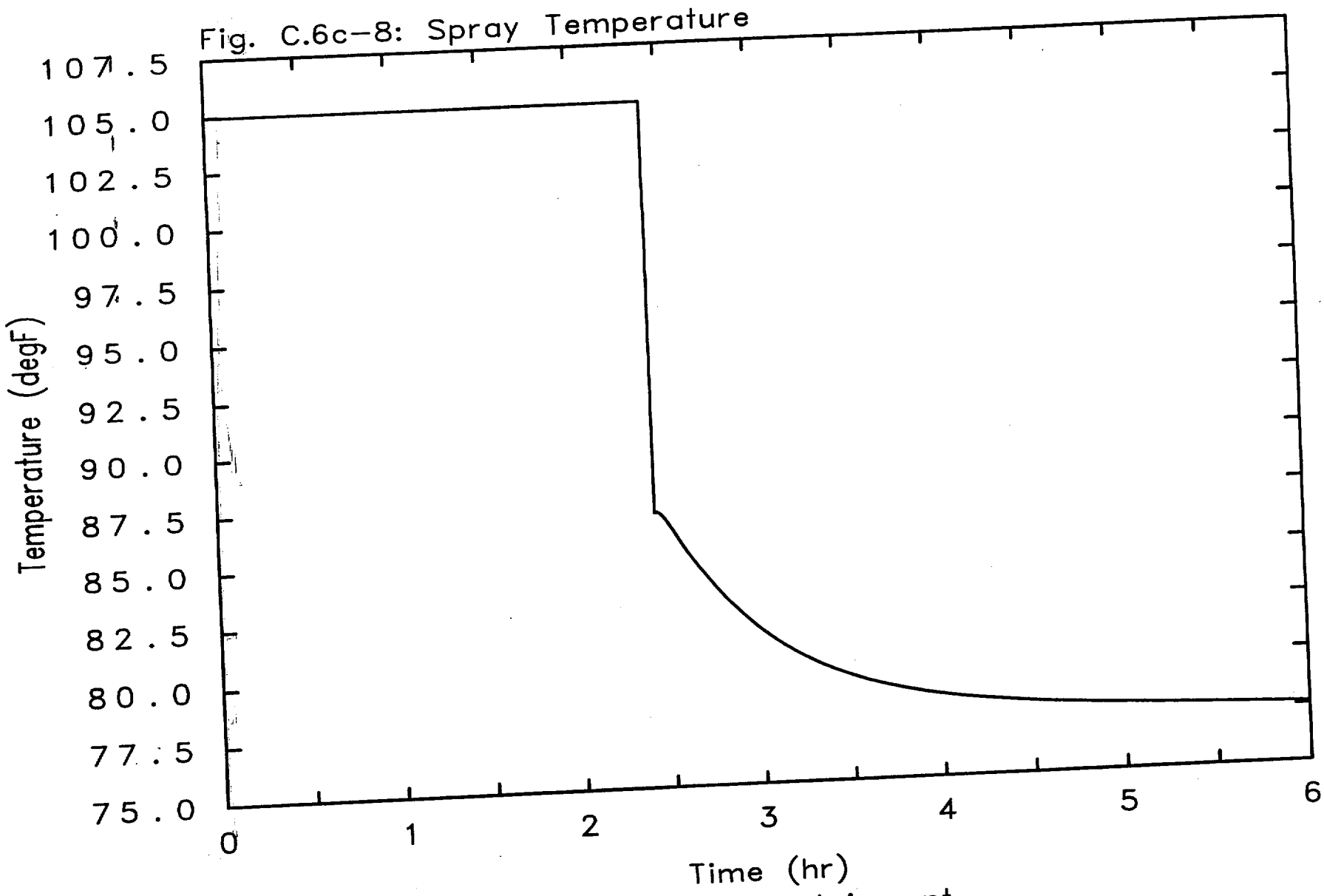
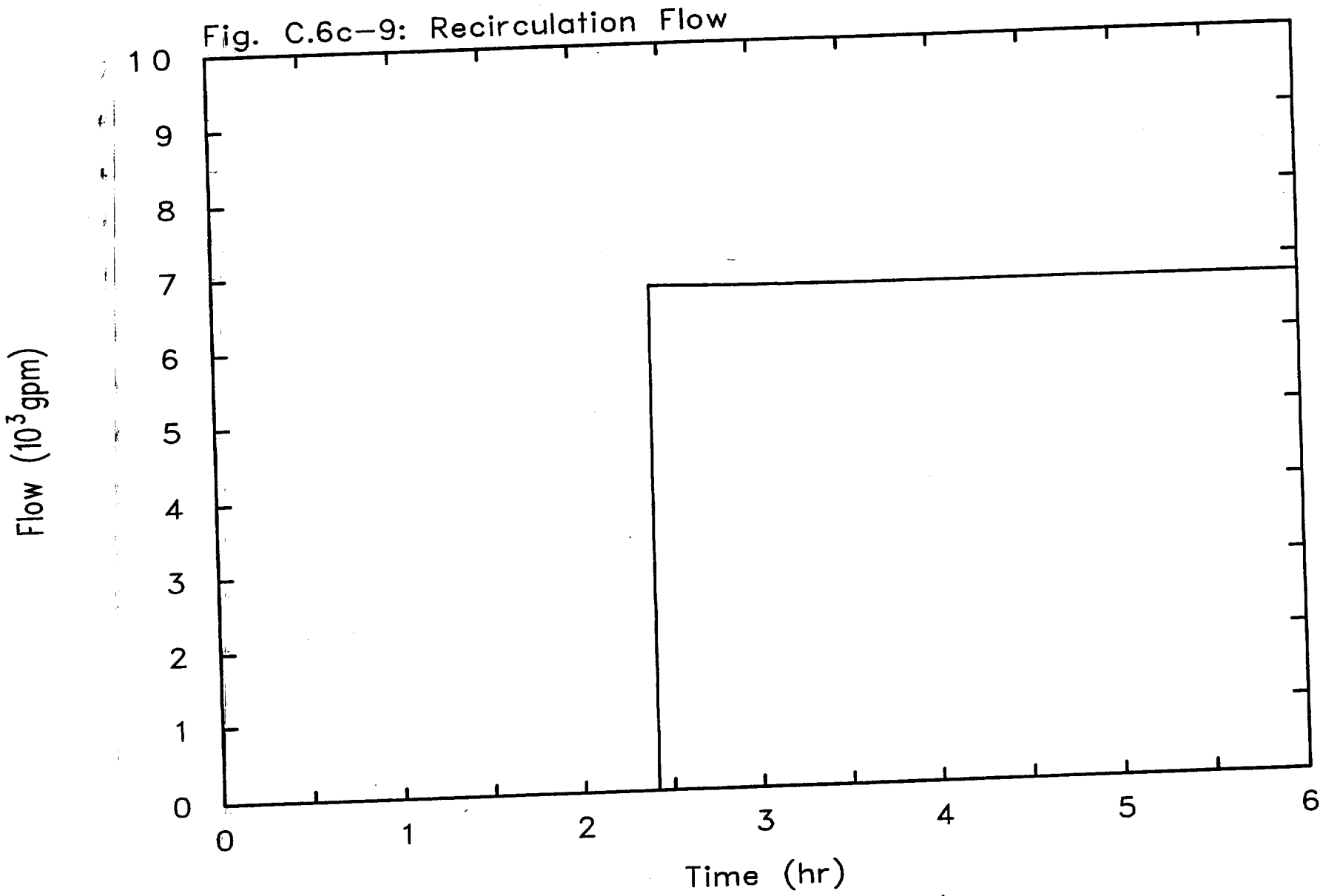
CFVALU.300

Fig. C.6c-8: Spray Temperature



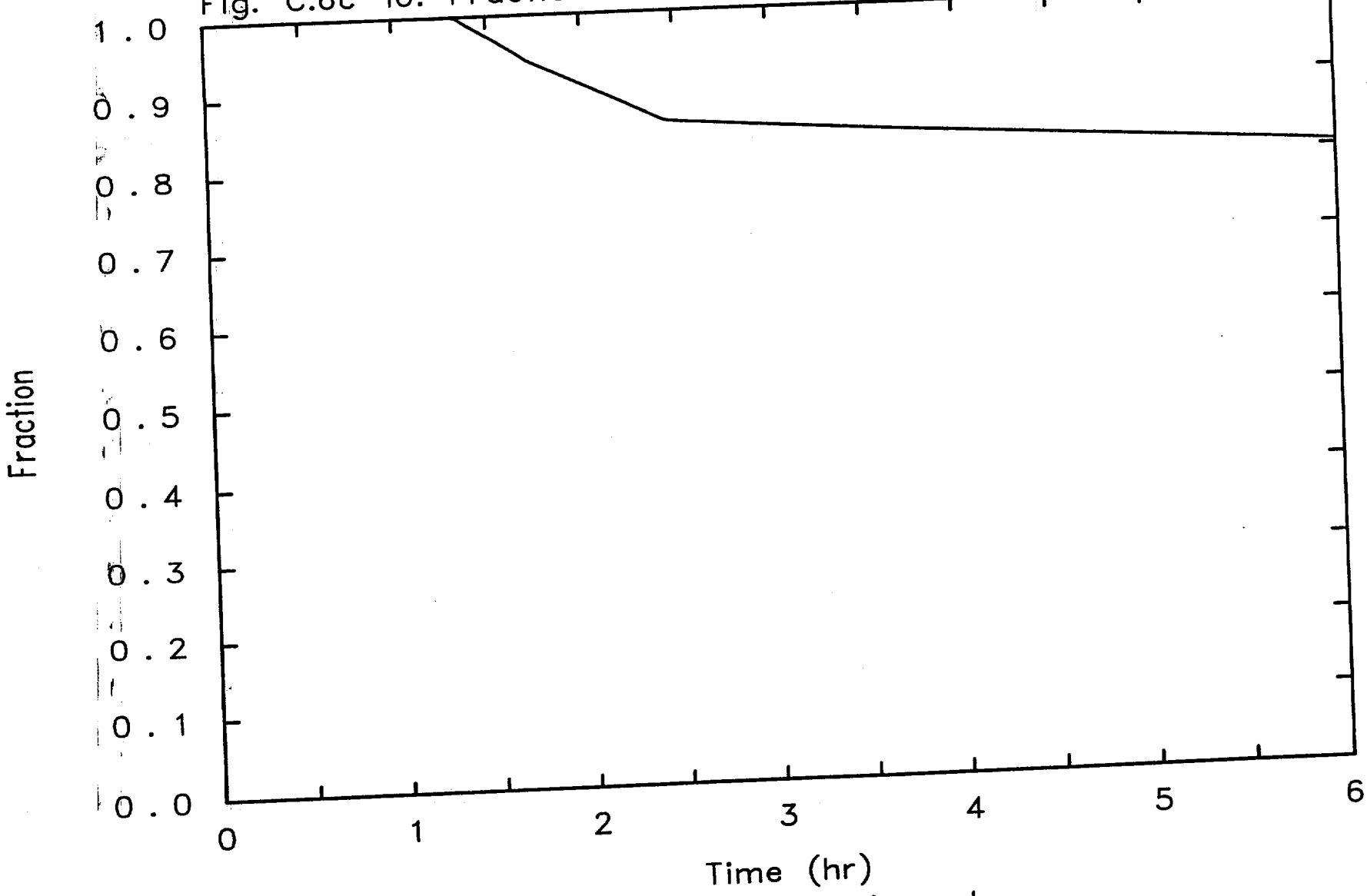
LOSP, LOFW, Delayed Action – Ice Cond Containment
HWJQATJNM 08/23/99 16:08:23 MELCOR PC
CFVALU.304

Fig. C.6c–9: Recirculation Flow



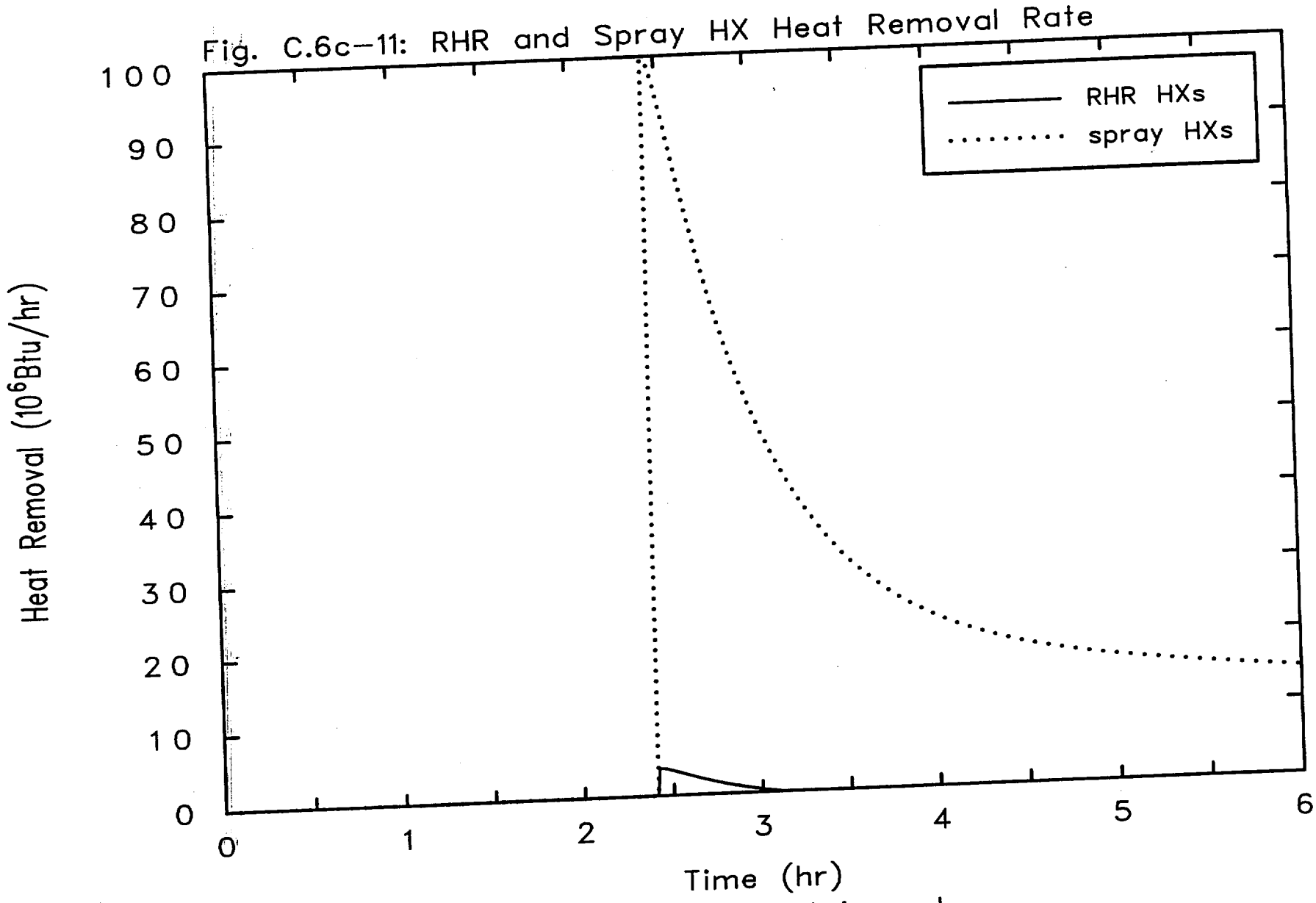
LOSP, LOFW, Delayed Action – Ice Cond Containment
HWJQATJNM 08/23/99 16:08:23 MELCOR PC
CFVALU.542

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



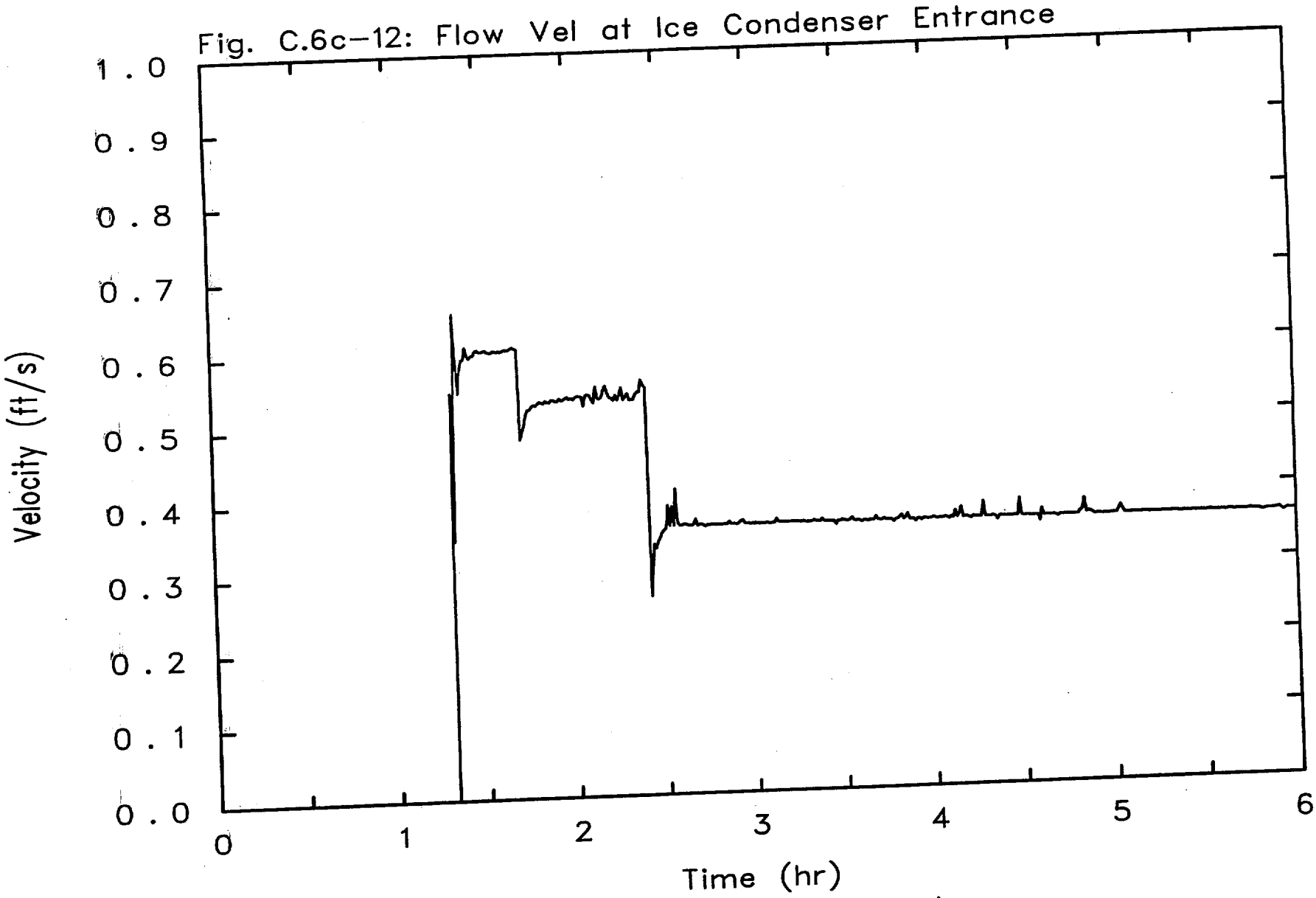
LOSP, LOFW, Delayed Action – Ice Cond Containment
HWJQATJNM 08/23/99 16:08:23 MELCOR PC
CFVALU.262

Fig. C.6c-11: RHR and Spray HX Heat Removal Rate



LOSP, LOFW, Delayed Action - Ice Cond Containment
HWJQATJNM 08/23/99 16:08:23 MELCOR PC

Fig. C.6c-12: Flow Vel at Ice Condenser Entrance



LOSP, LOFW, Delayed Action - Ice Cond Containment
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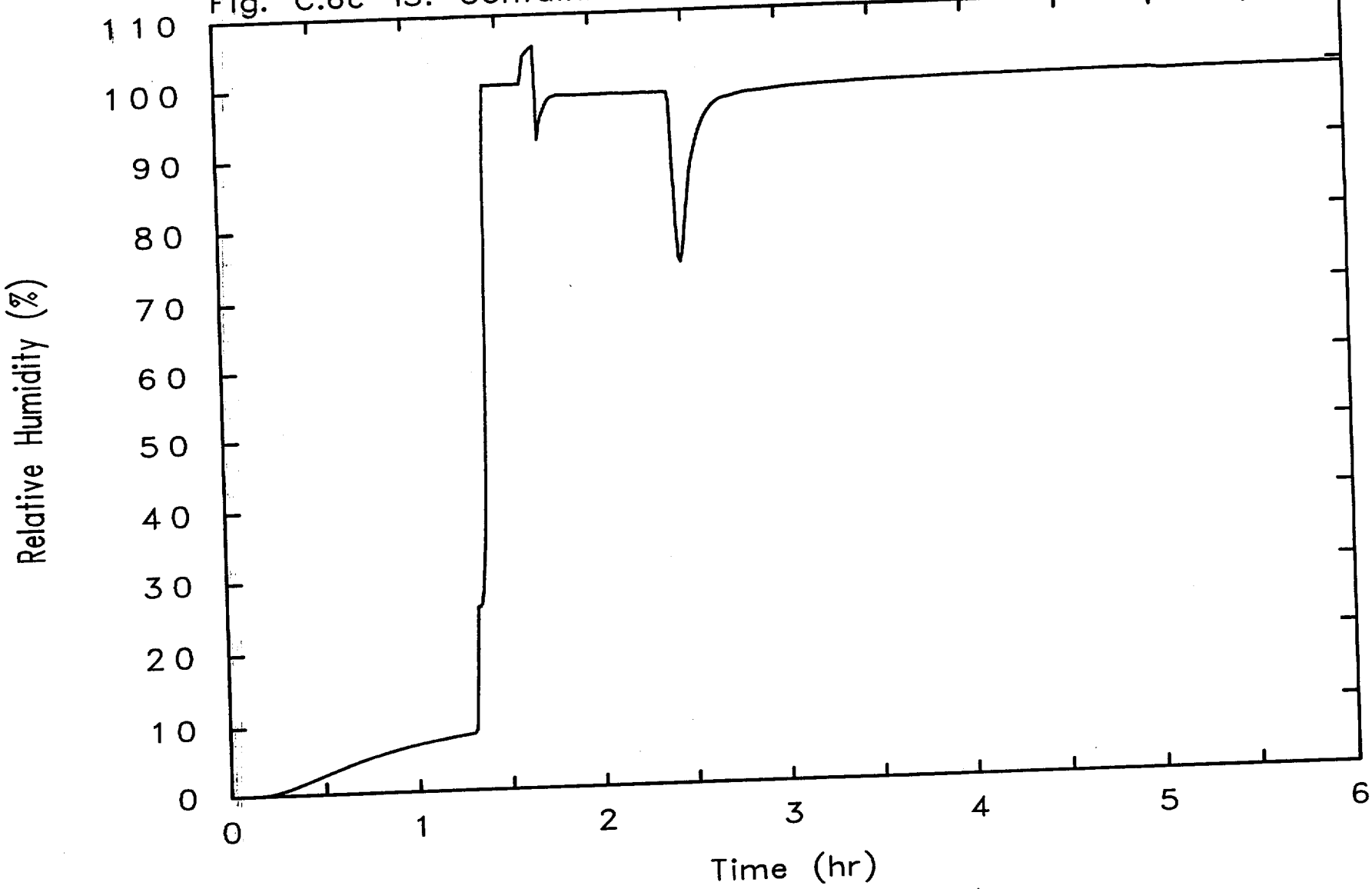
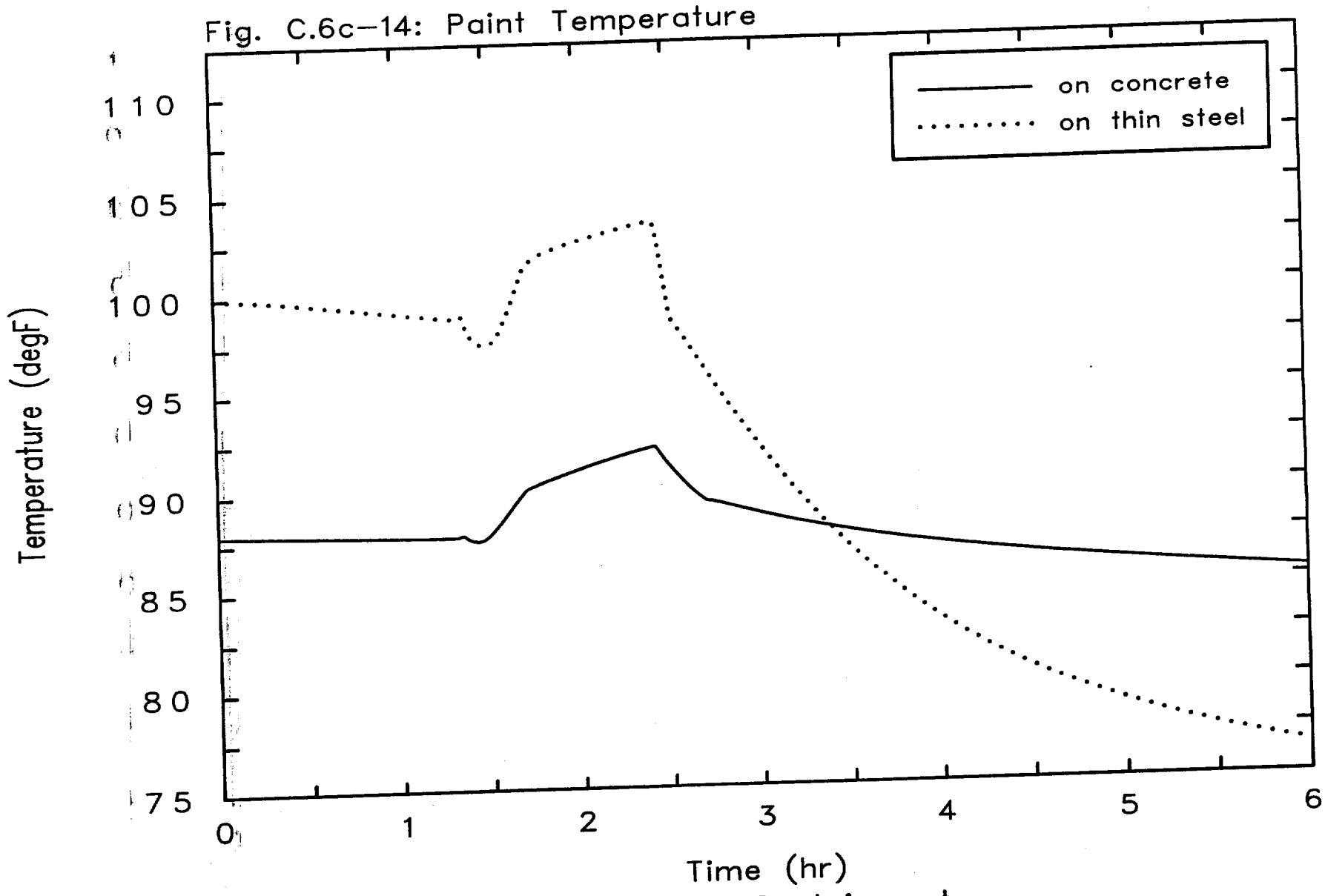
FL-VELVAP.004

Fig. C.6c–13: Containment Relative Humidity



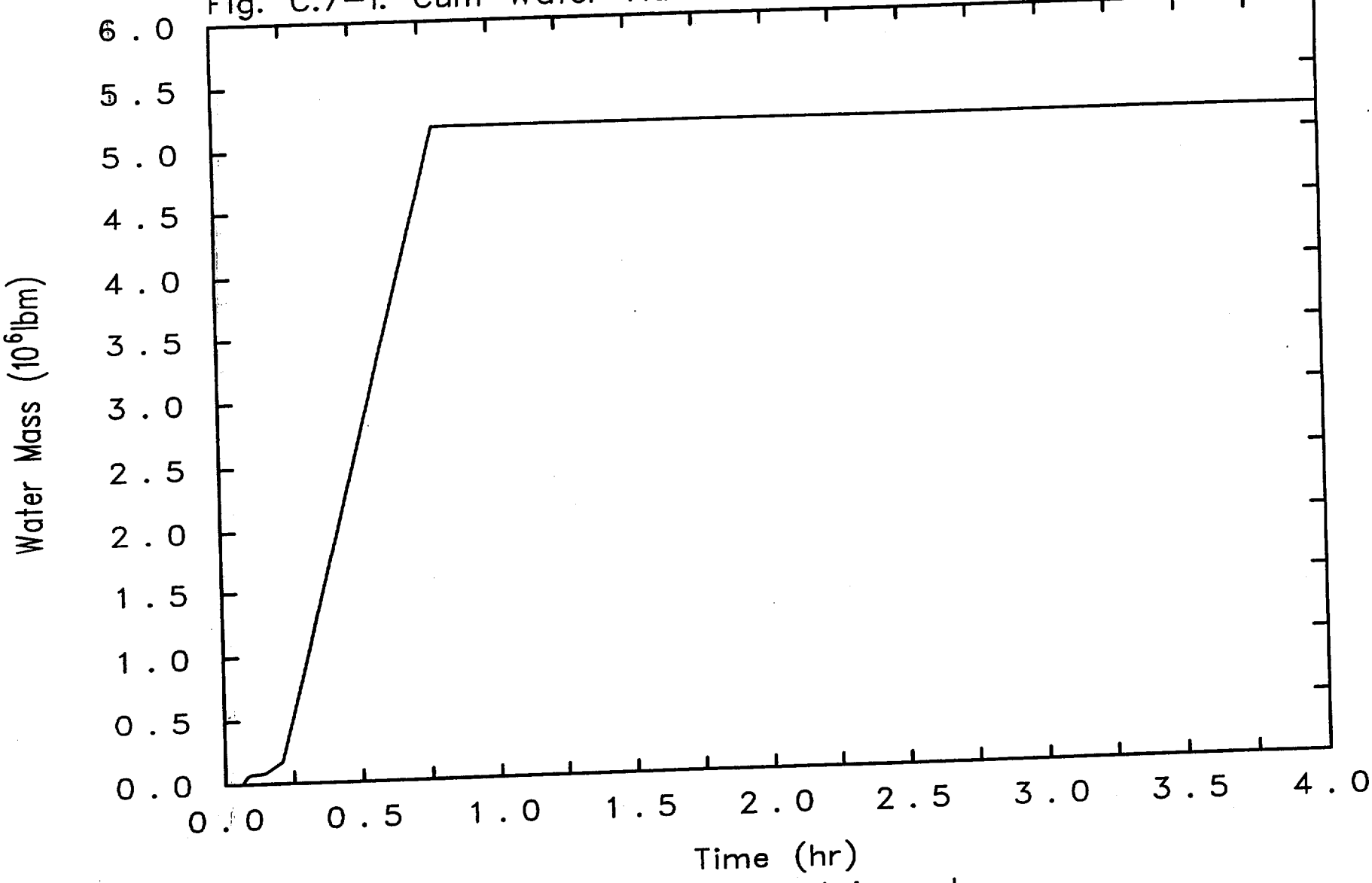
LOSP, LOFW, Delayed Action – Ice Cond Containment
HWJQATJNM 08/23/99 16:08:23 MELCOR PC
CFVALU.536

Fig. C.6c–14: Paint Temperature



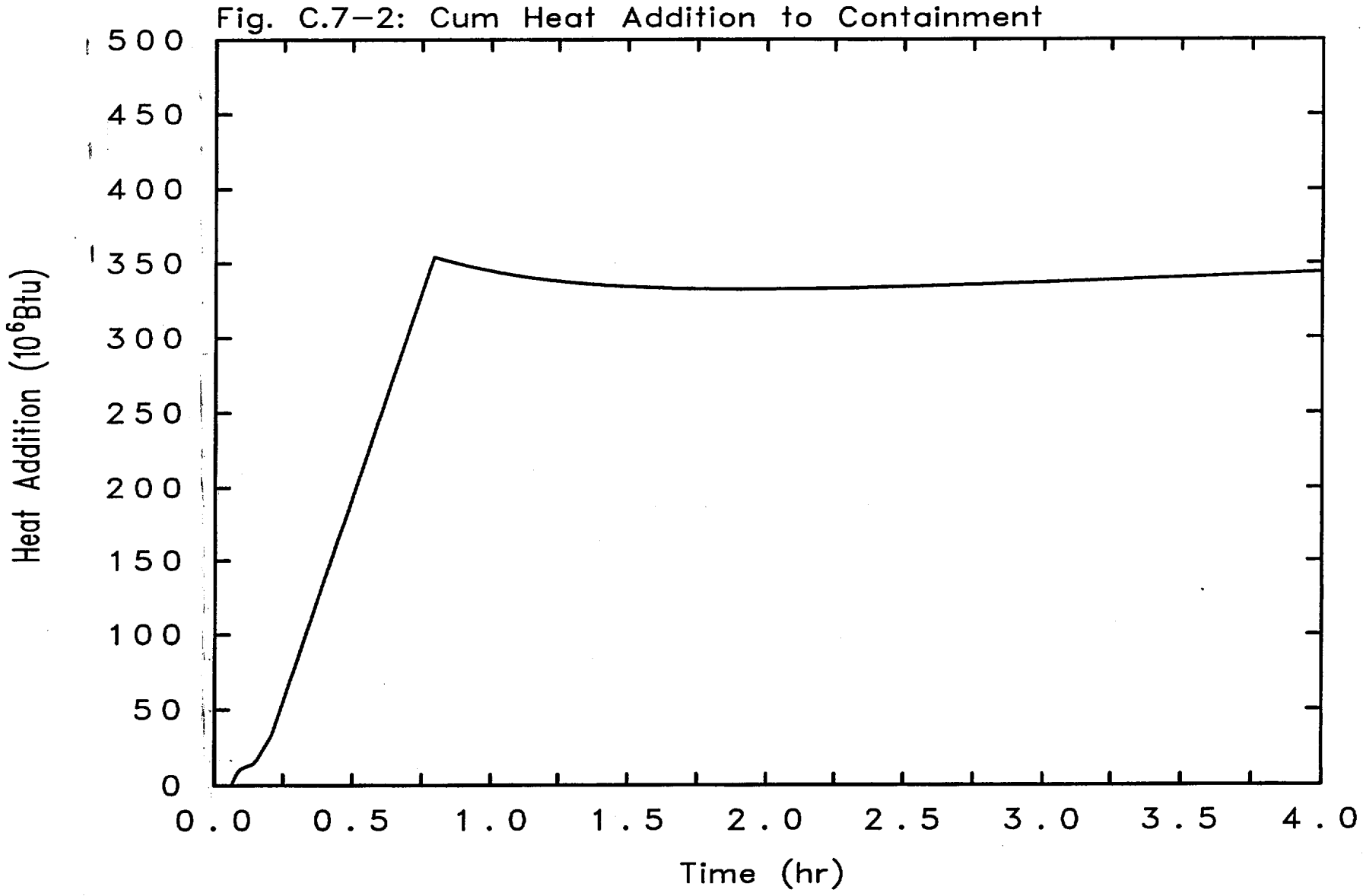
LOSP, LOFW, Delayed Action – Ice Cond Containment
HWJQATJNM 08/23/99 16:08:23 MELCOR PC

Fig. C.7-1: Cum Water Addition to Containment



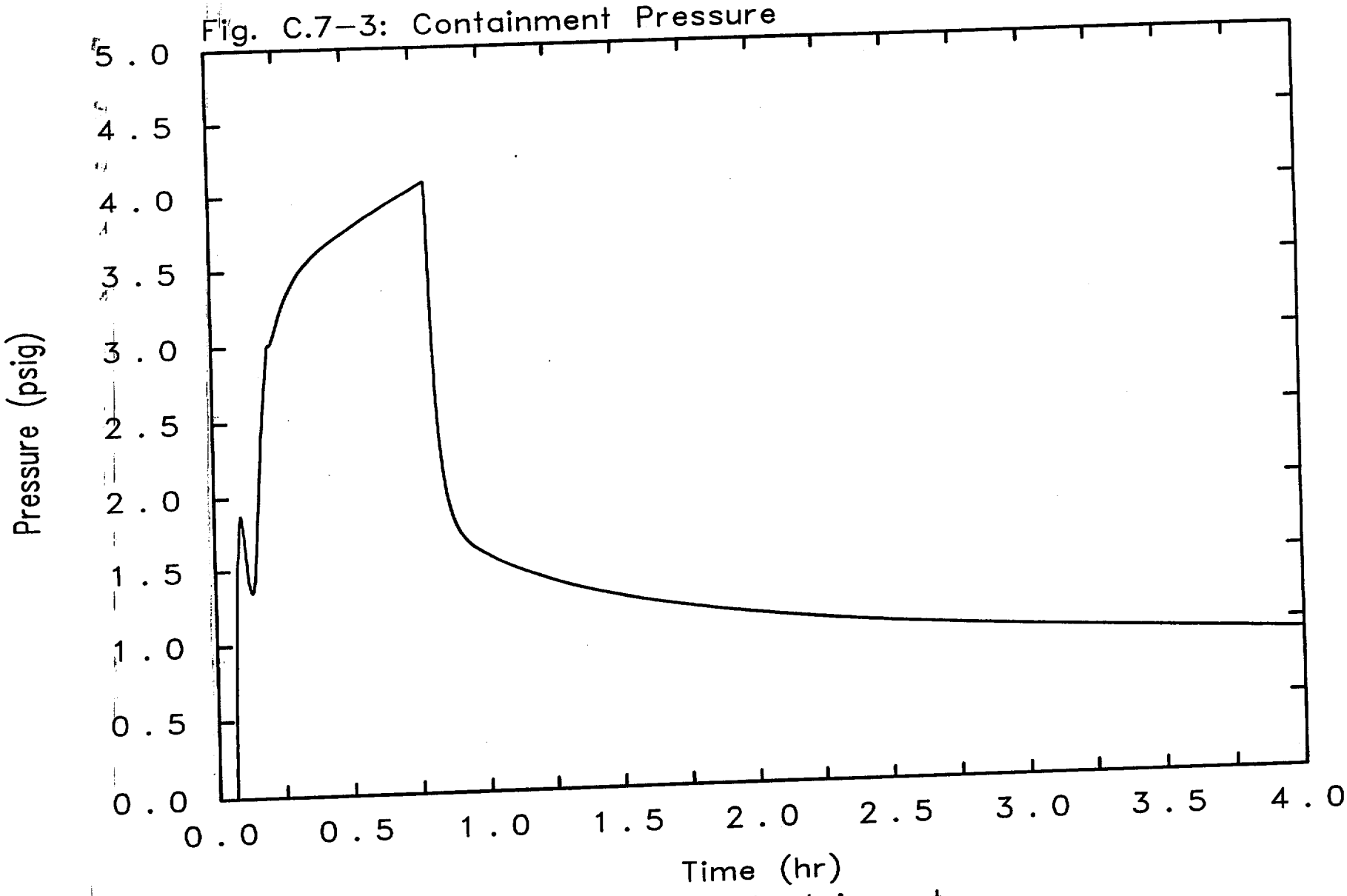
PORV Falsely Lifts & Sticks – Ice Cond Containment
HWJQEDQNM 08/23/99 16:46:38 MELCOR PC
CFVALU.538

Fig. C.7-2: Cum Heat Addition to Containment



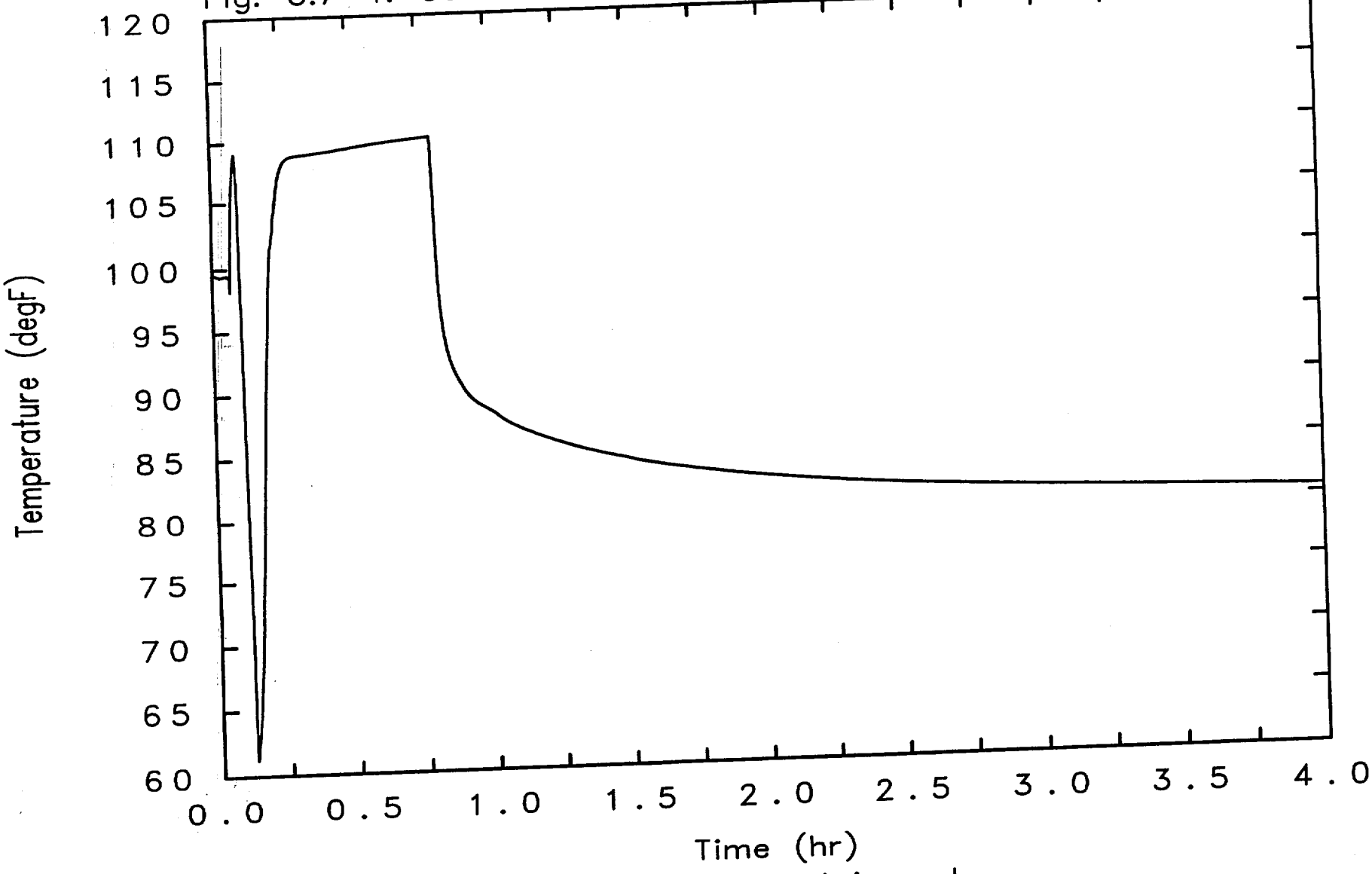
PORV Falsely Lifts & Sticks – Ice Cond Containment
HWJQEDQNM 08/23/99 16:46:38 MELCOR PC
CFVALU.546

Fig. C.7-3: Containment Pressure



PORV Falsely Lifts & Sticks - Ice Cond Containment
HWJQEDQNM 08/23/99 16:46:38 MELCOR PC
CVH-P.070

Fig. C.7-4: Containment Atmospheric Temperature



PORV Falsely Lifts & Sticks – Ice Cond Containment
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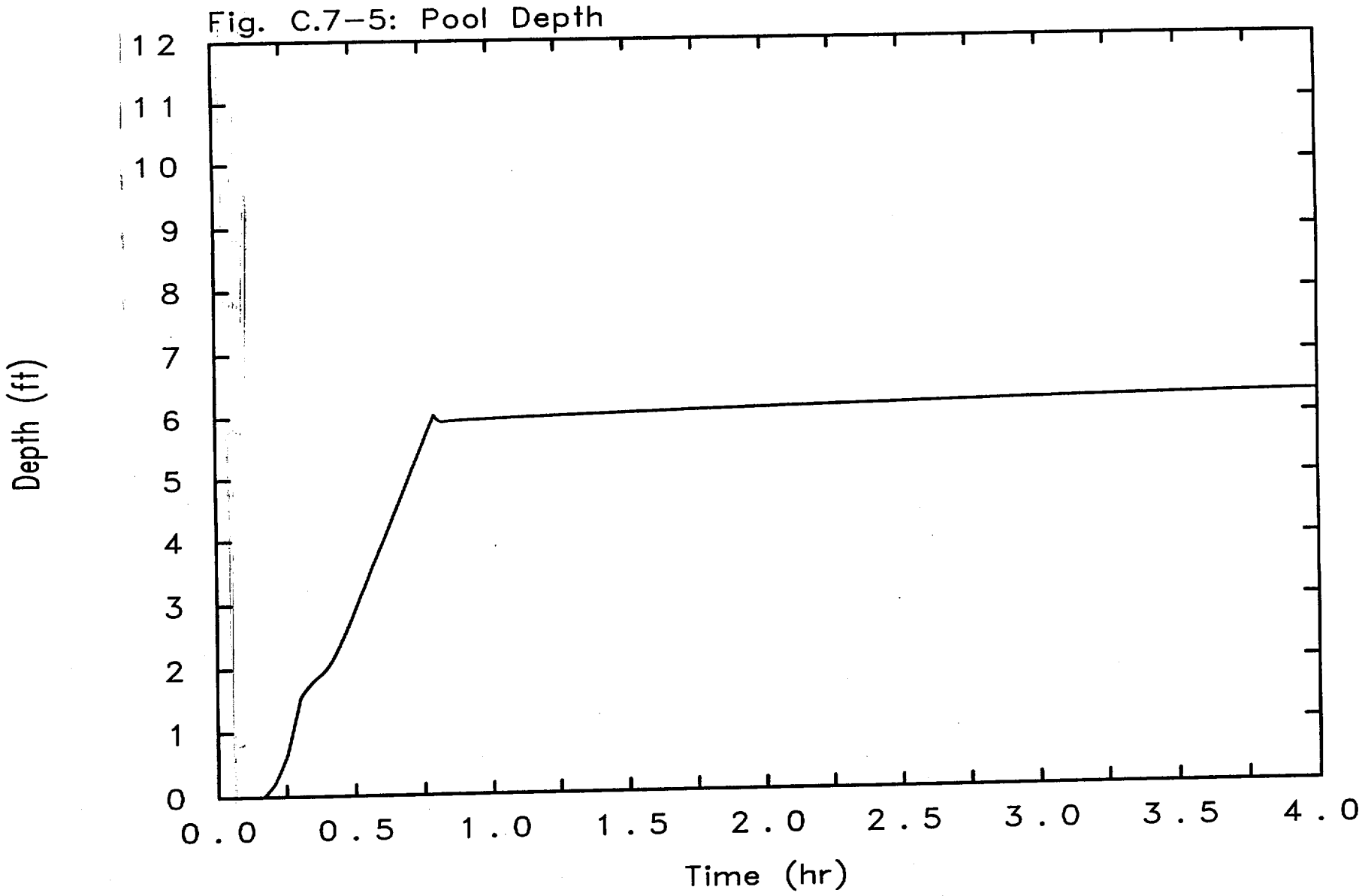
Fig. C.7-5: Pool Depth



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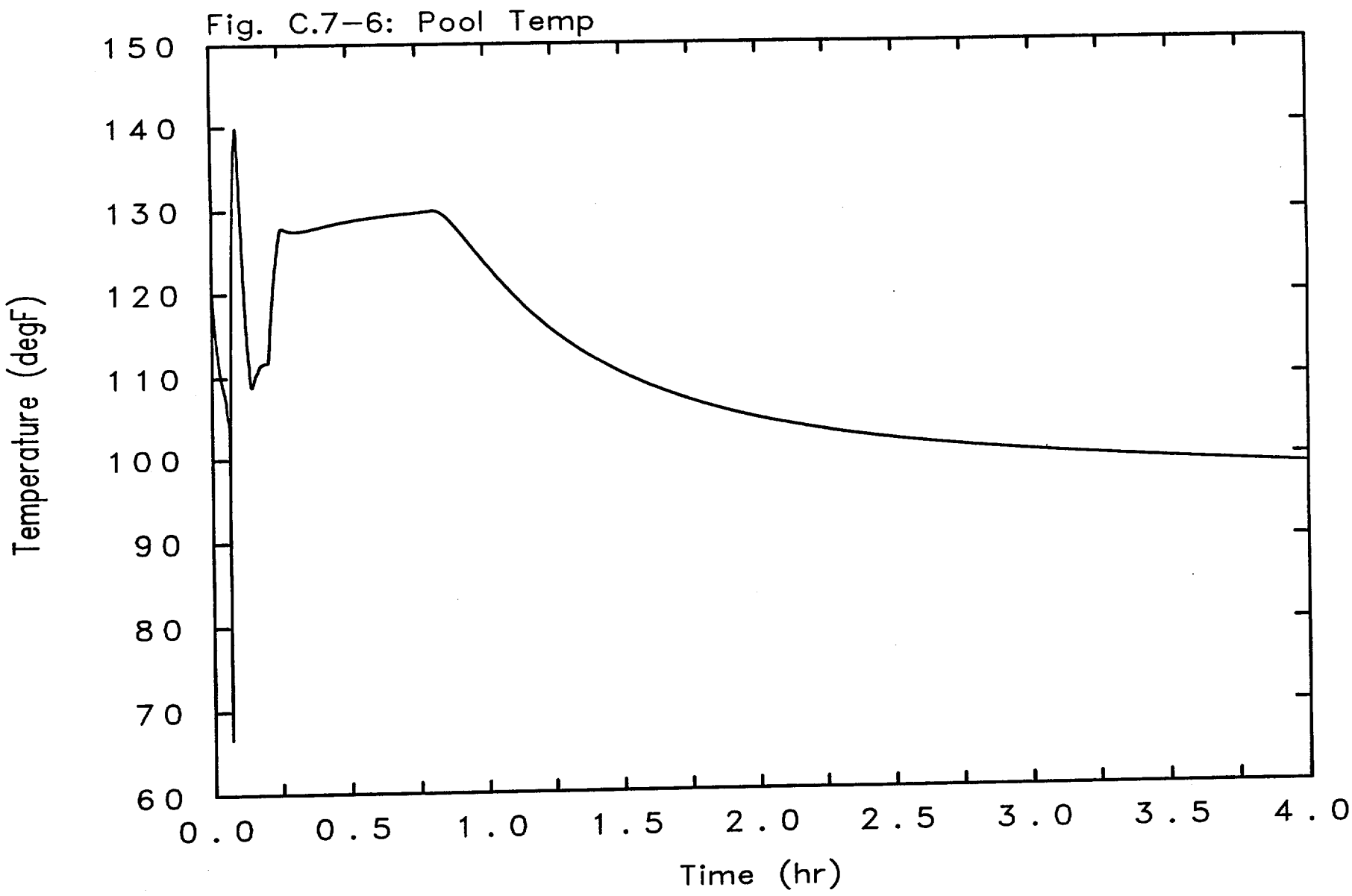

PORV Falsely Lifts & Sticks - Ice Cond Containment
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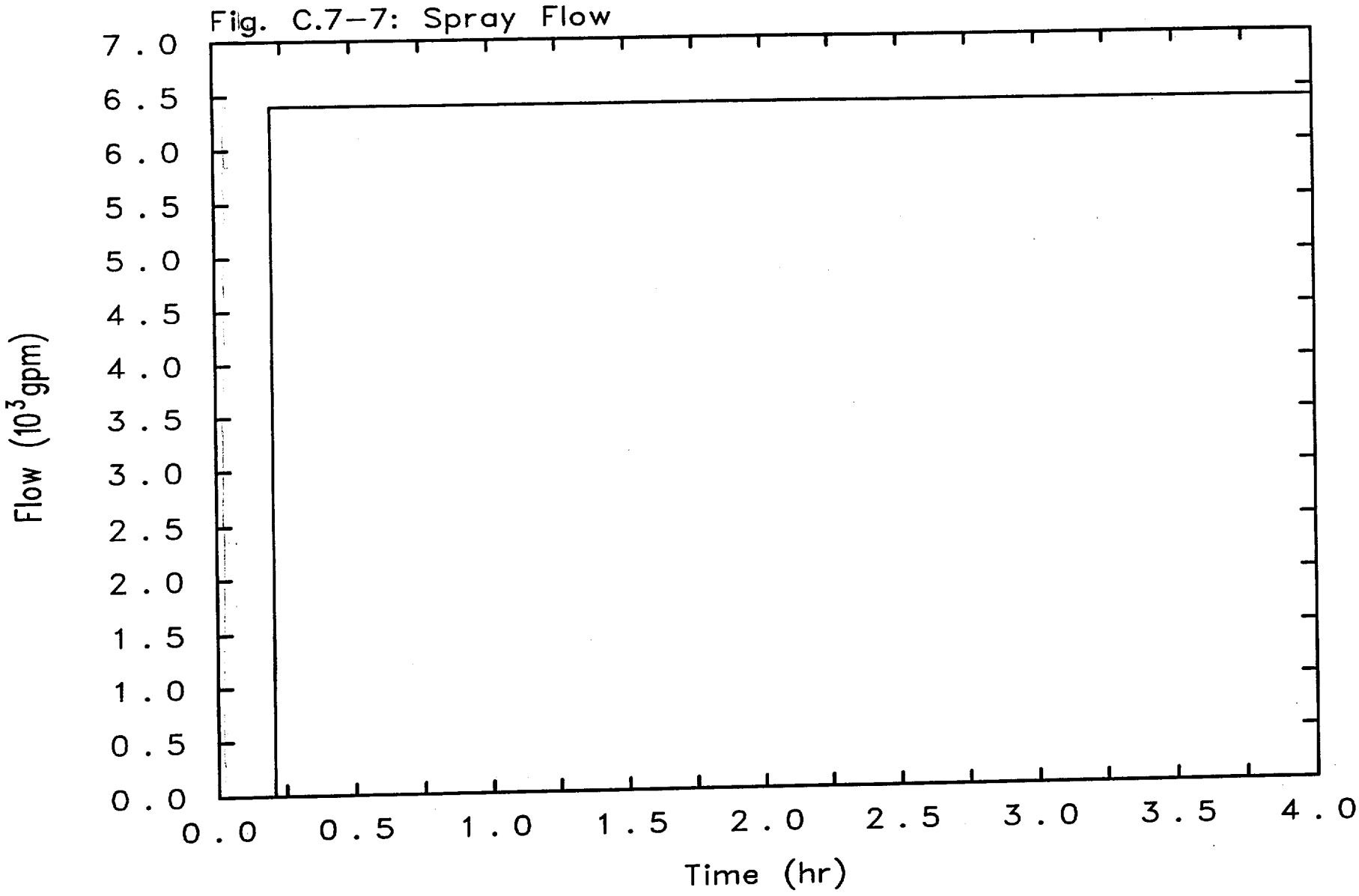
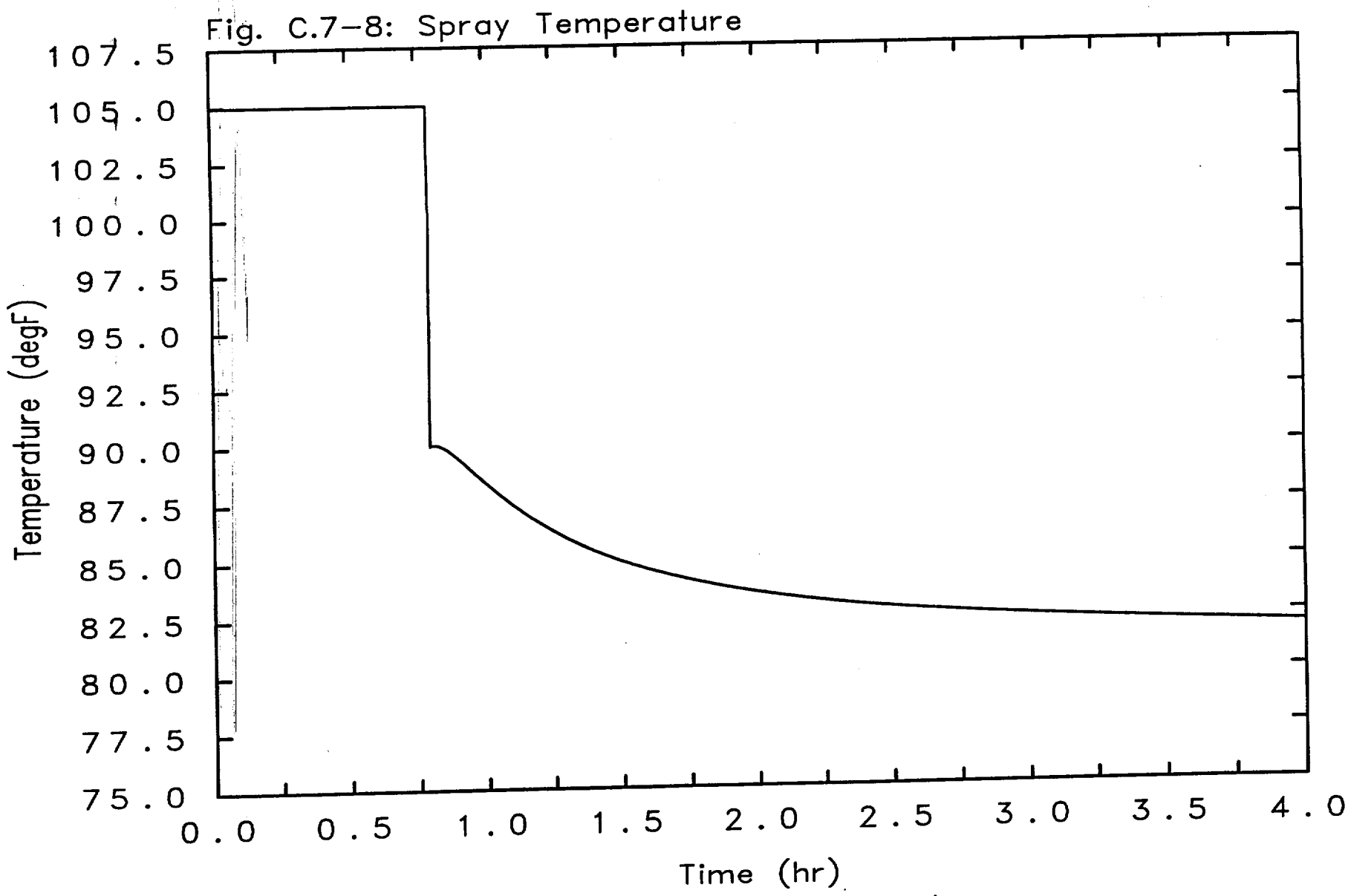
Fig. C.7-7: Spray Flow



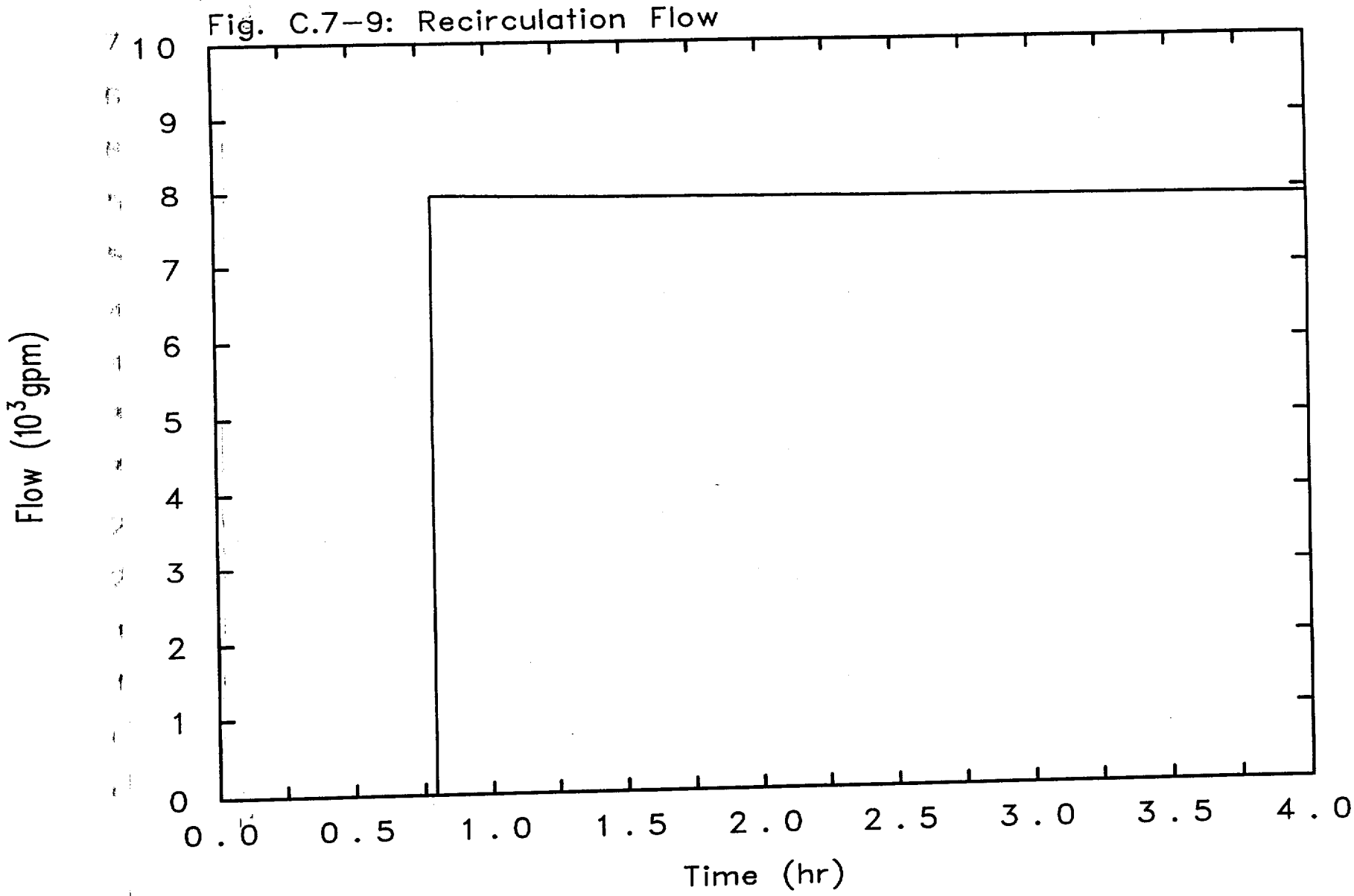
PORV Falsely Lifts & Sticks - Ice Cond Containment
HWJQEDQNM 08/23/99 16:46:38 MELCOR PC
CFVALU.300

Fig. C.7-8: Spray Temperature



PORV Falsely Lifts & Sticks – Ice Cond Containment
HWJQEDQNM 08/23/99 16:46:38 MELCOR PC
CFVALU.304

Fig. C.7-9: Recirculation Flow



PORV Falsely Lifts & Sticks - Ice Cond Containment
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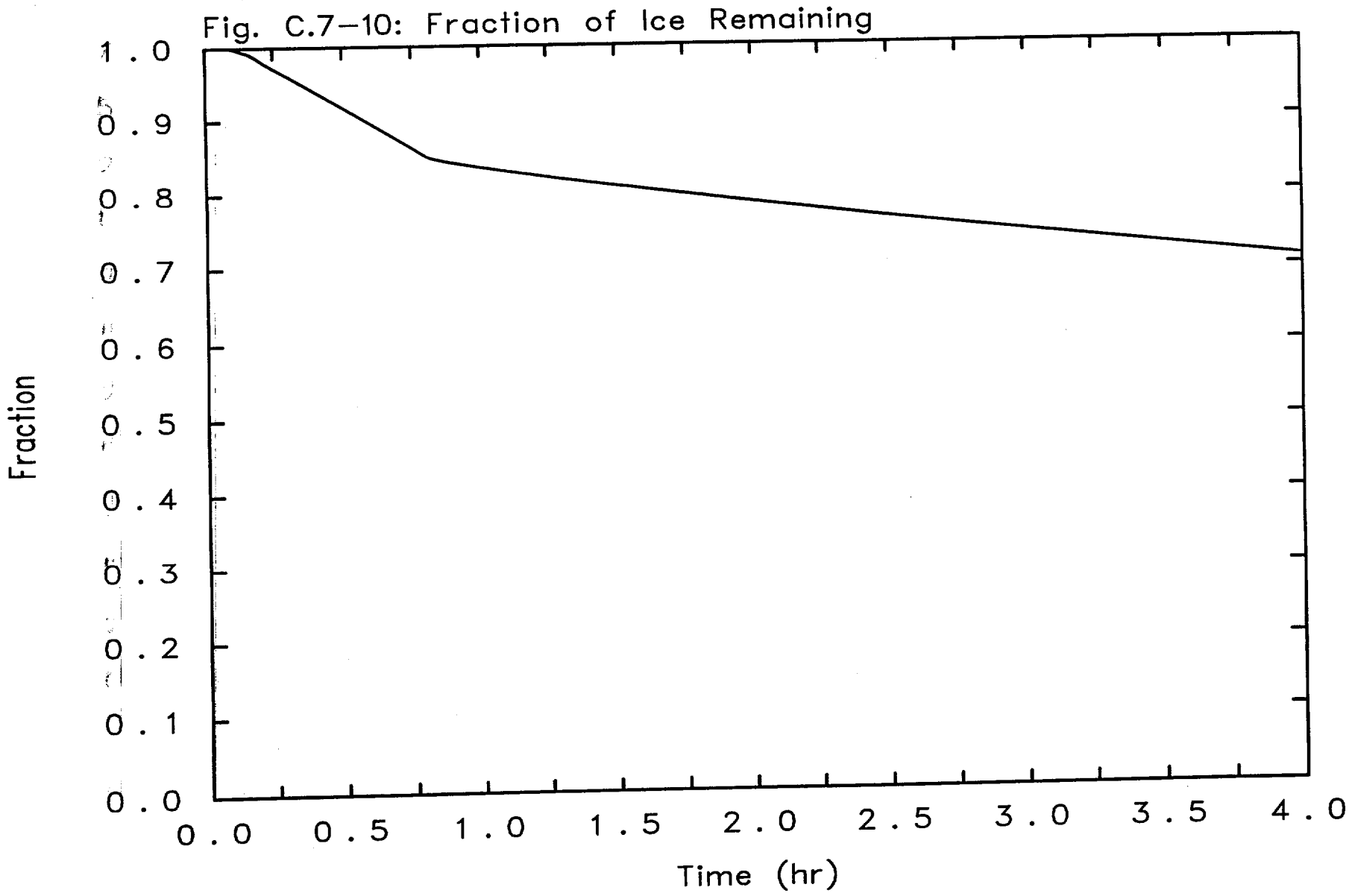
CFVALU.542

Fig. C.7-10: Fraction of Ice Remaining



PORV Falsely Lifts & Sticks - Ice Cond Containment
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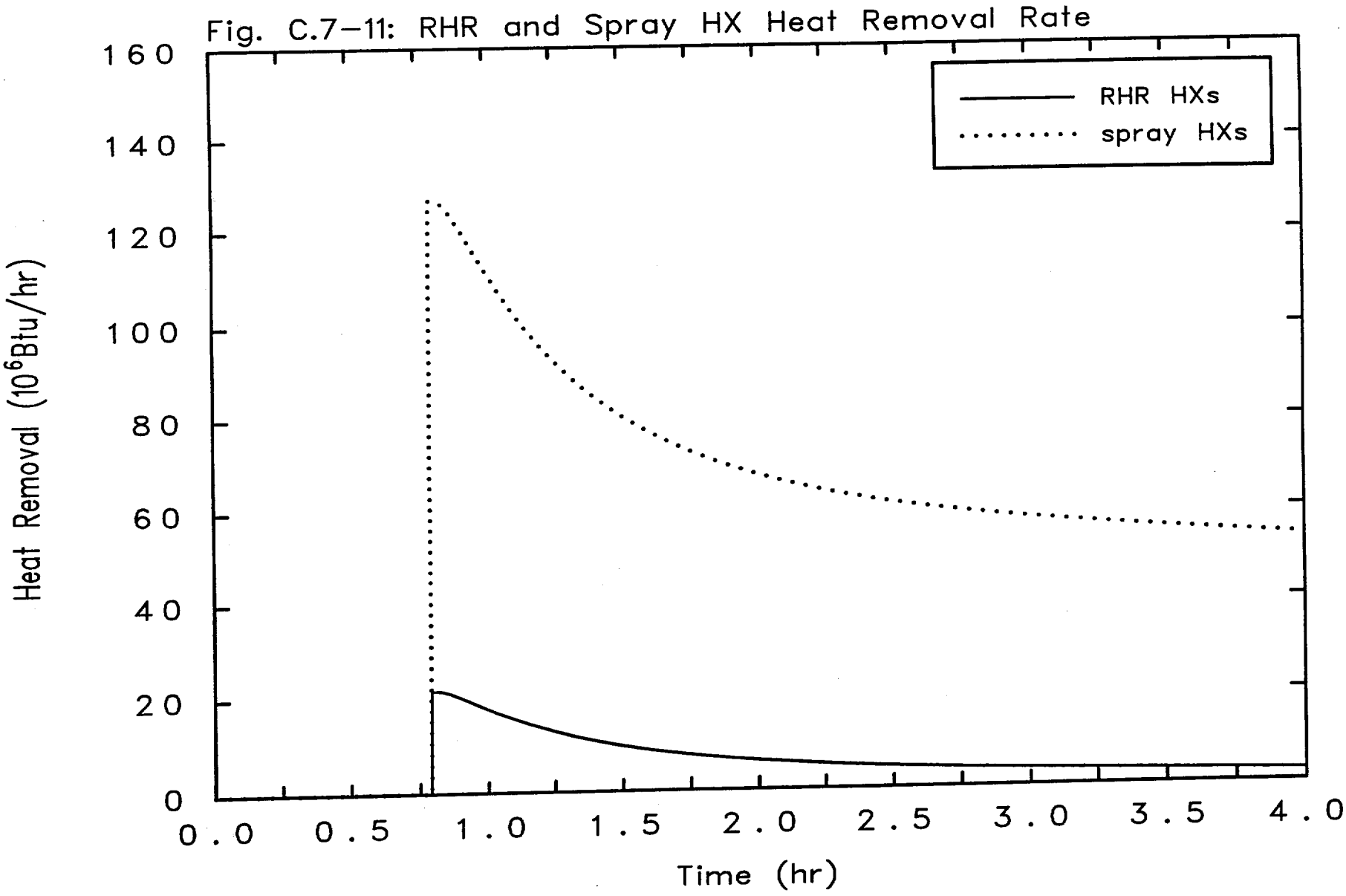
Fig. C.7-11: RHR and Spray HX Heat Removal Rate



PORV Falsely Lifts & Sticks – Ice Cond Containment
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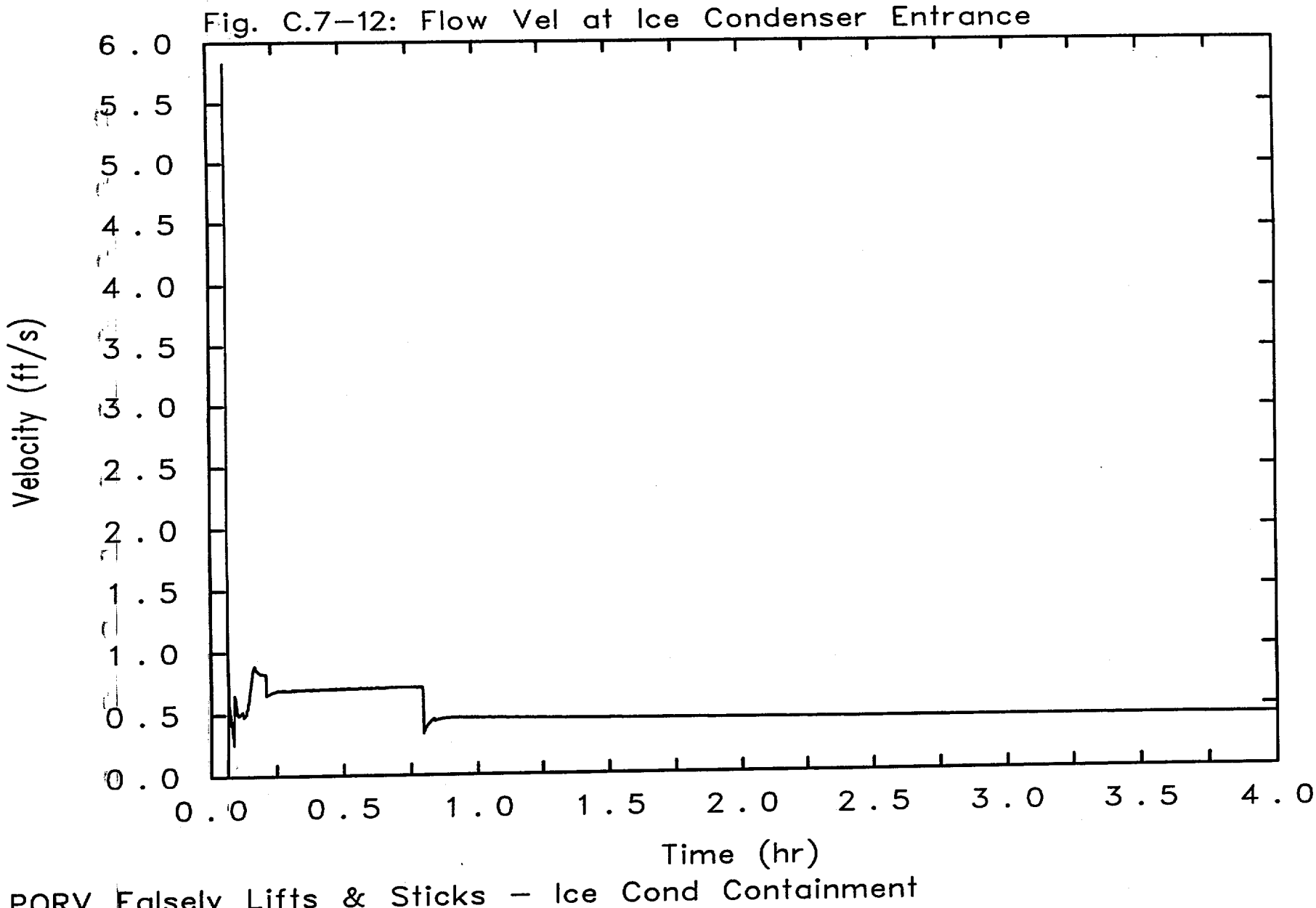
Fig. C.7-12: Flow Vel at Ice Condenser Entrance



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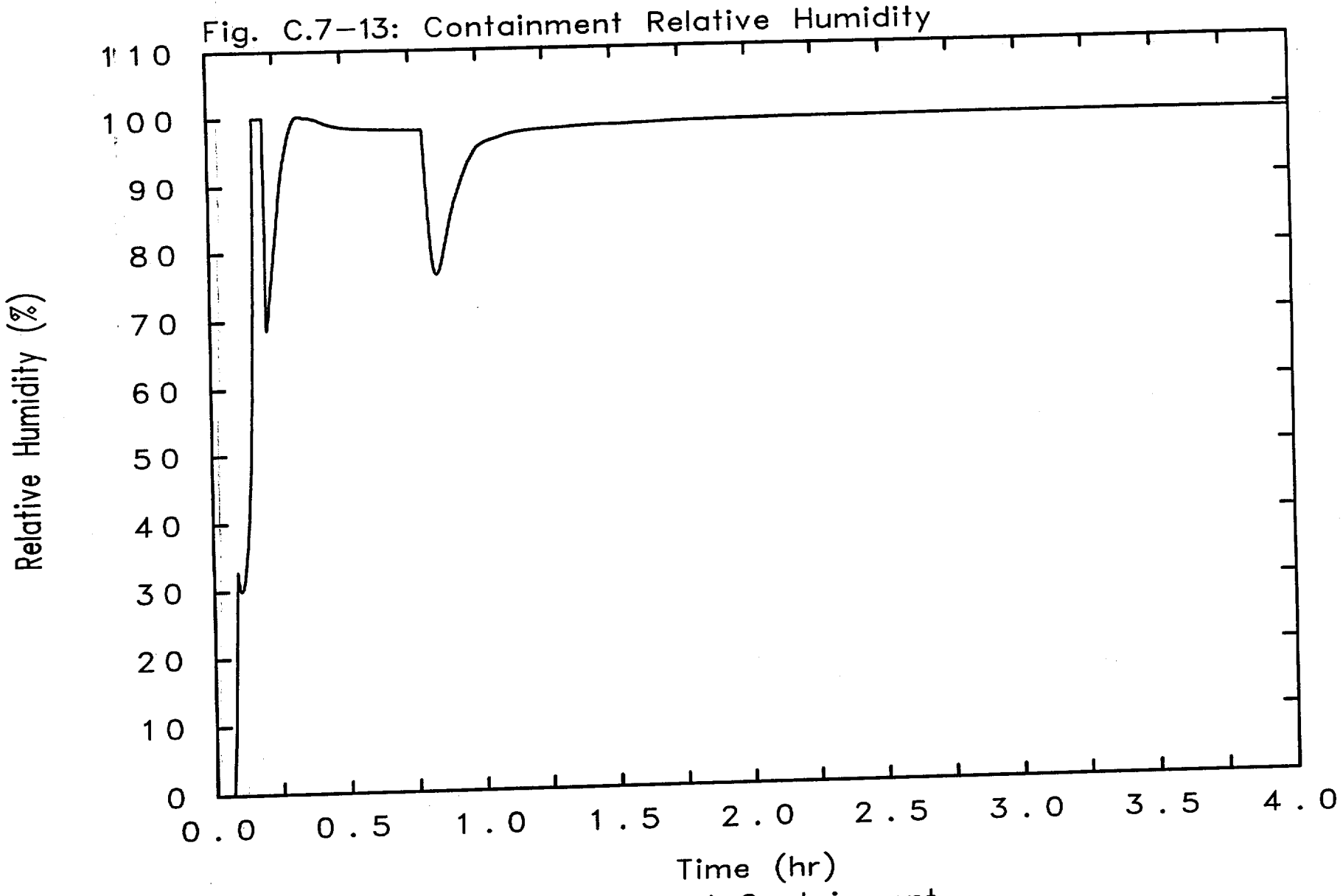
FL-VELVAP.004

Fig. C.7-13: Containment Relative Humidity



PORV Falsely Lifts & Sticks - Ice Cond Containment
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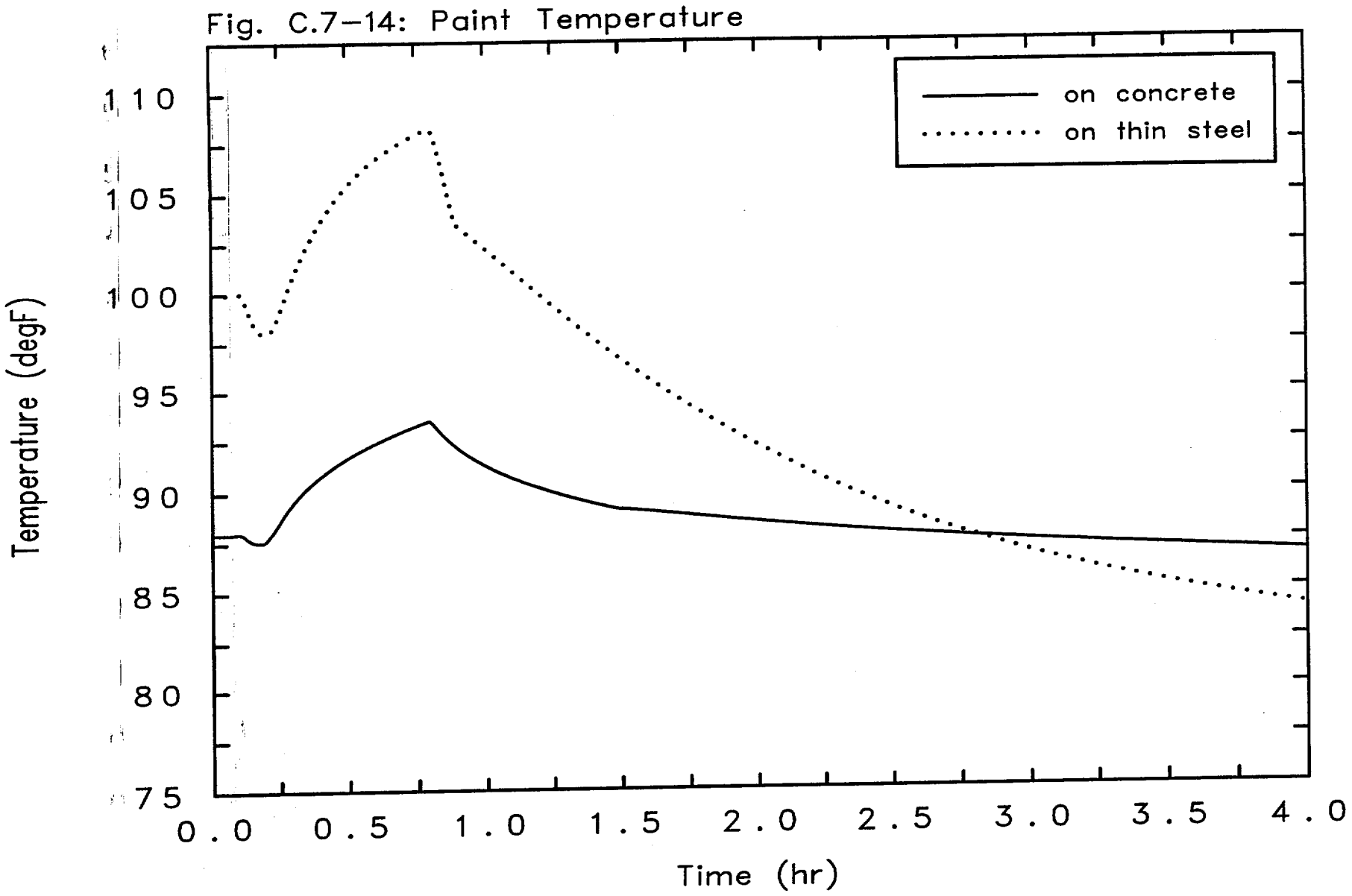
Fig. C.7-14: Paint Temperature



PORV Falsely Lifts & Sticks – Ice Cond Containment
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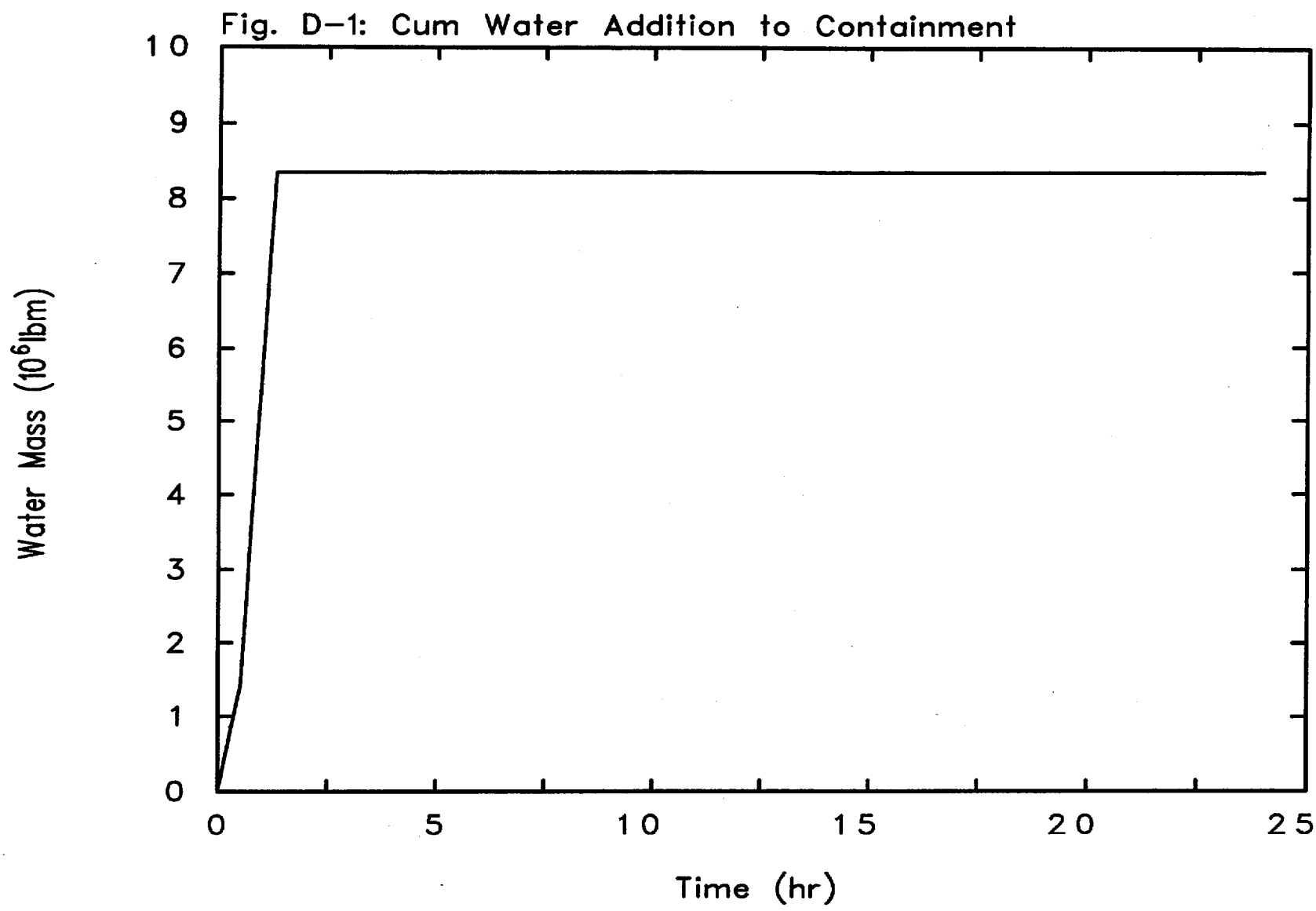
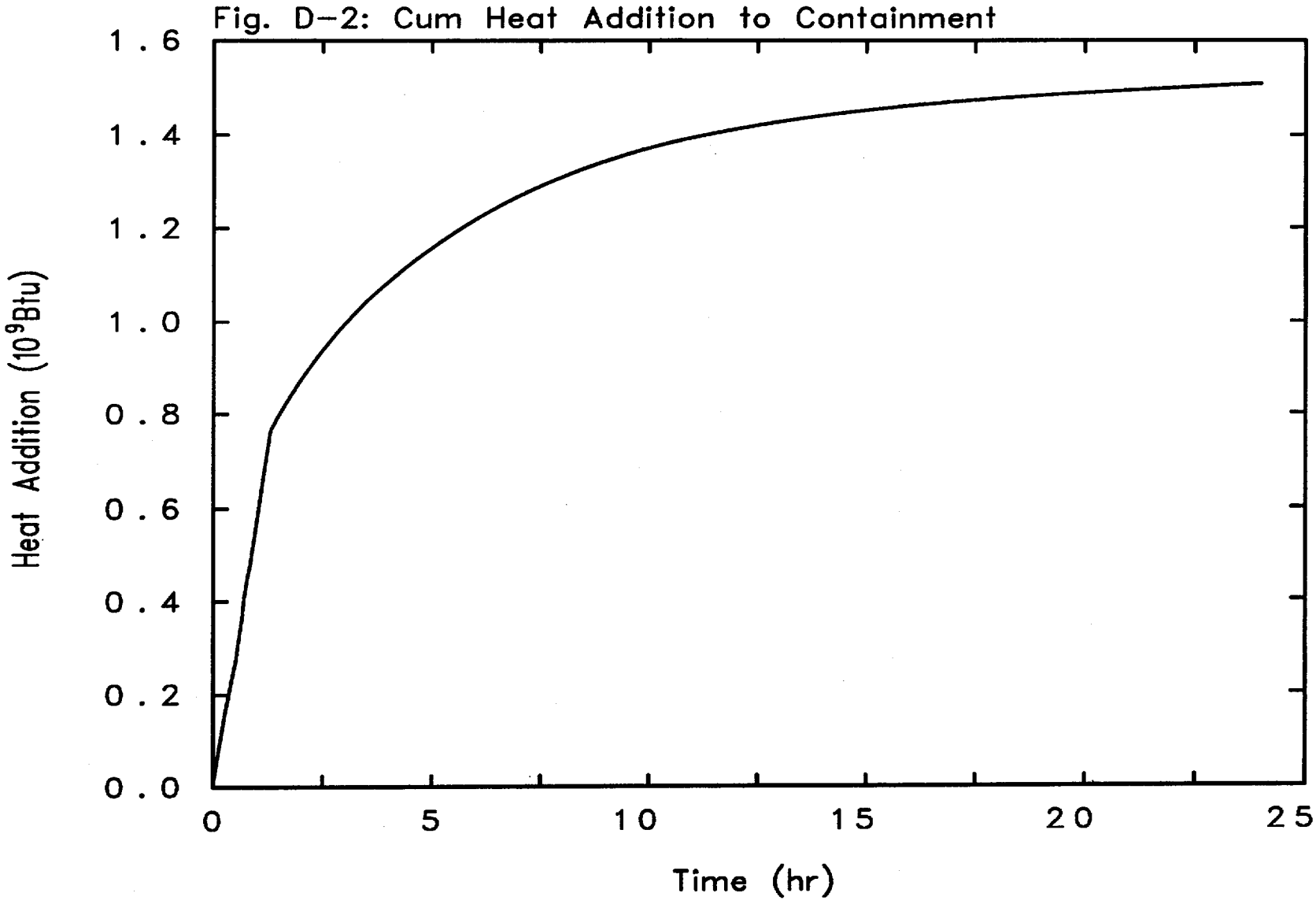
APPENDIX D
MELCOR PREDICTIONS OF LARGE DRY CONTAINMENT RESPONSE – SENSITIVITY OF SLOCA RESULTS TO FAN COOLER FAILURE



Small LOCA – Large Dry Containment, No Fan Coolers
GAENCESRA 5/07/01 13:24:34 MELCOR
CFVALU.538

Fig. D-2: Cum Heat Addition to Containment



Small LOCA – Large Dry Containment, No Fan Coolers
GAENCESRA 5/07/01 13:24:34 MELCOR
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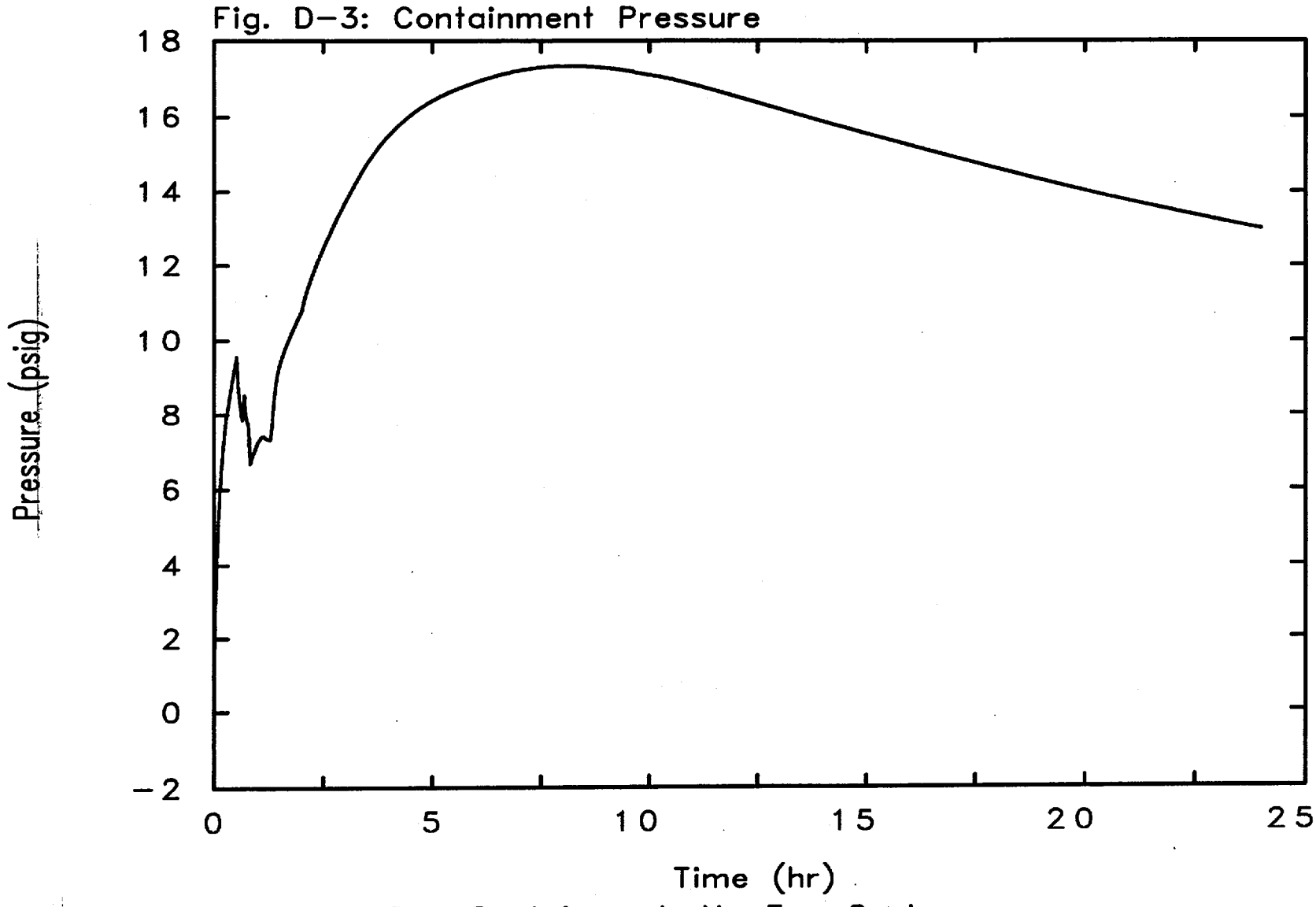
Fig. D-3: Containment Pressure



Small LOCA – Large Dry Containment, No Fan Coolers
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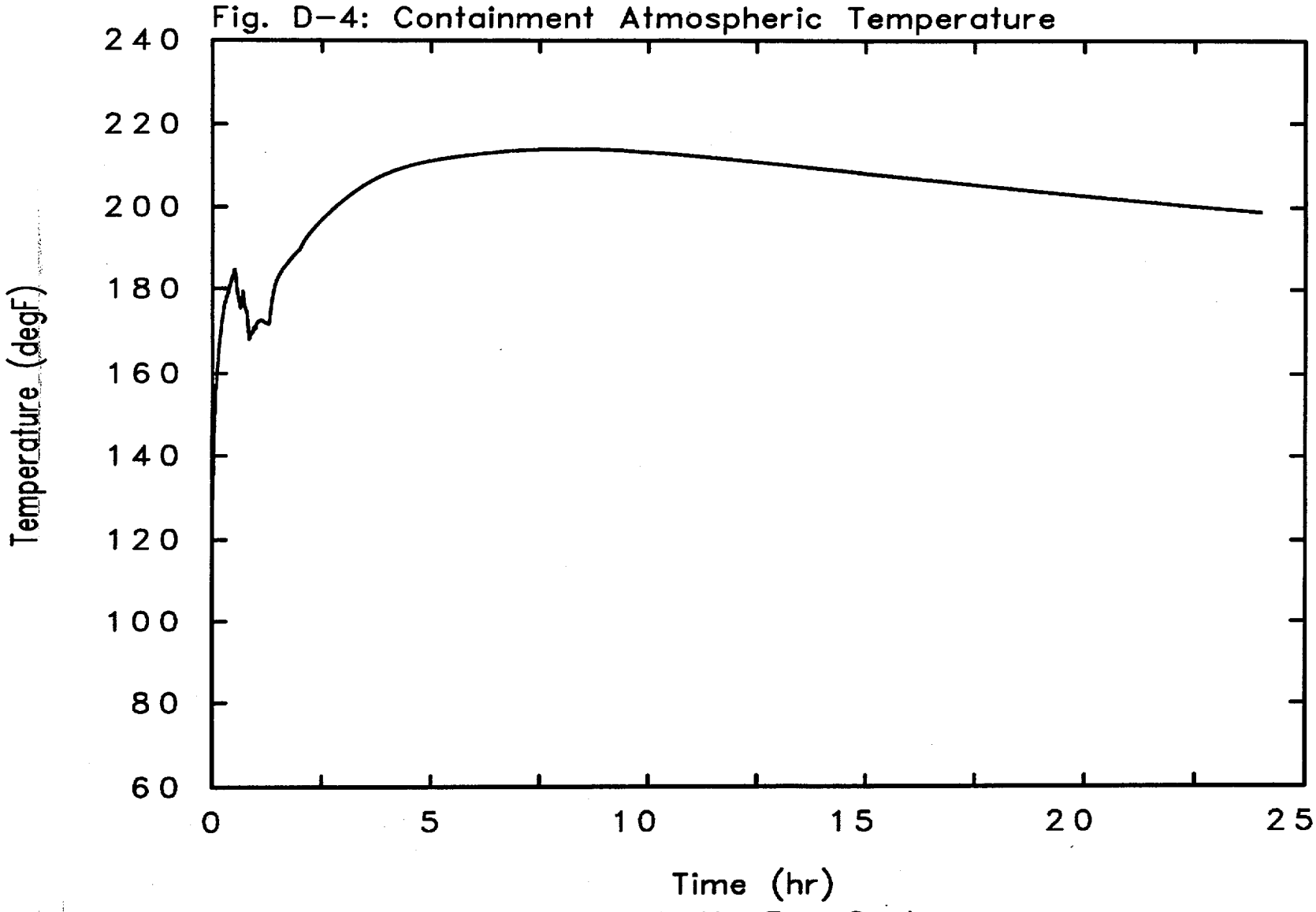
CVH-P.012

Fig. D-4: Containment Atmospheric Temperature



Small LOCA – Large Dry Containment, No Fan Coolers
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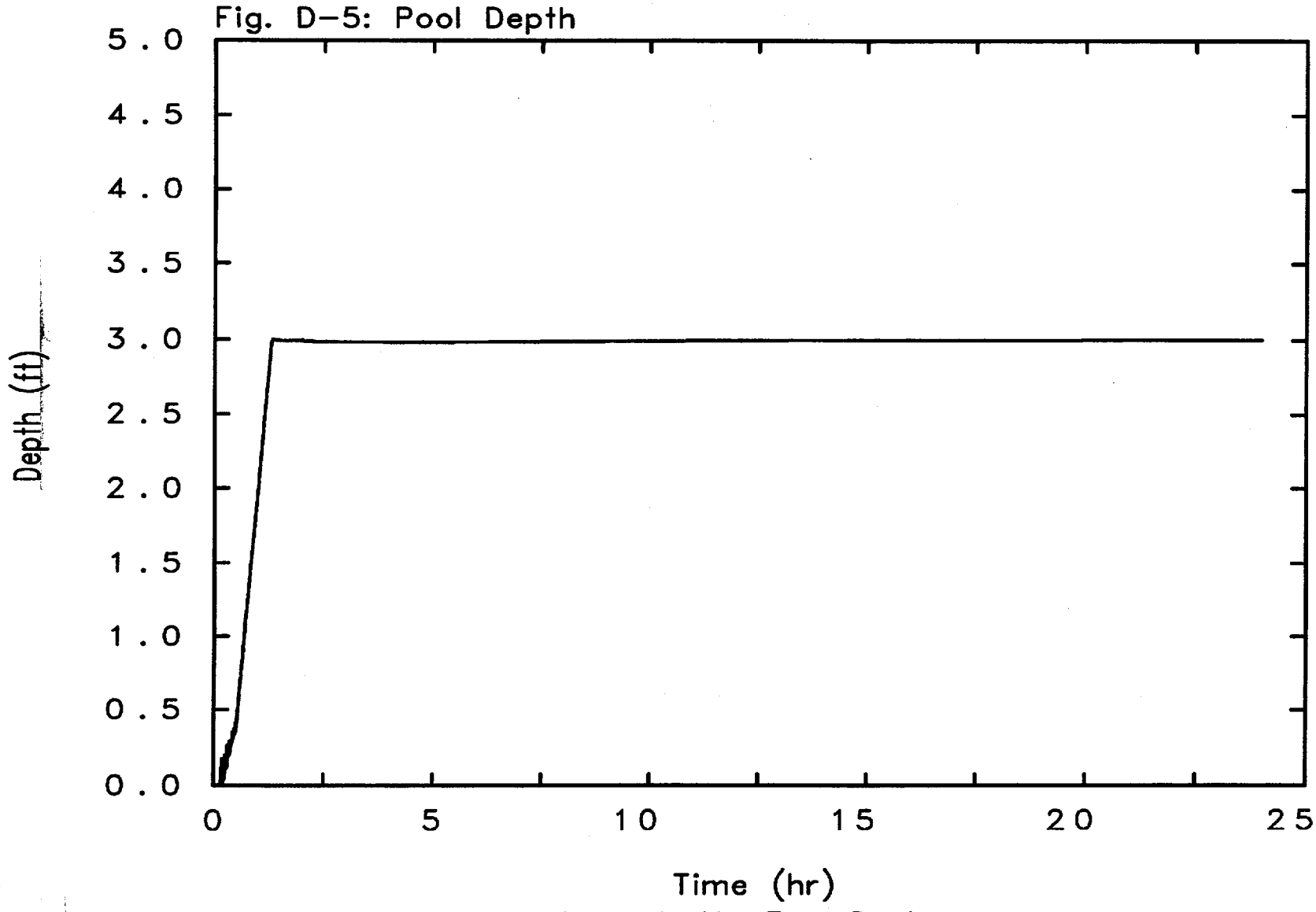
CVH-TVAP.012

Fig. D-5: Pool Depth



Small LOCA – Large Dry Containment, No Fan Coolers
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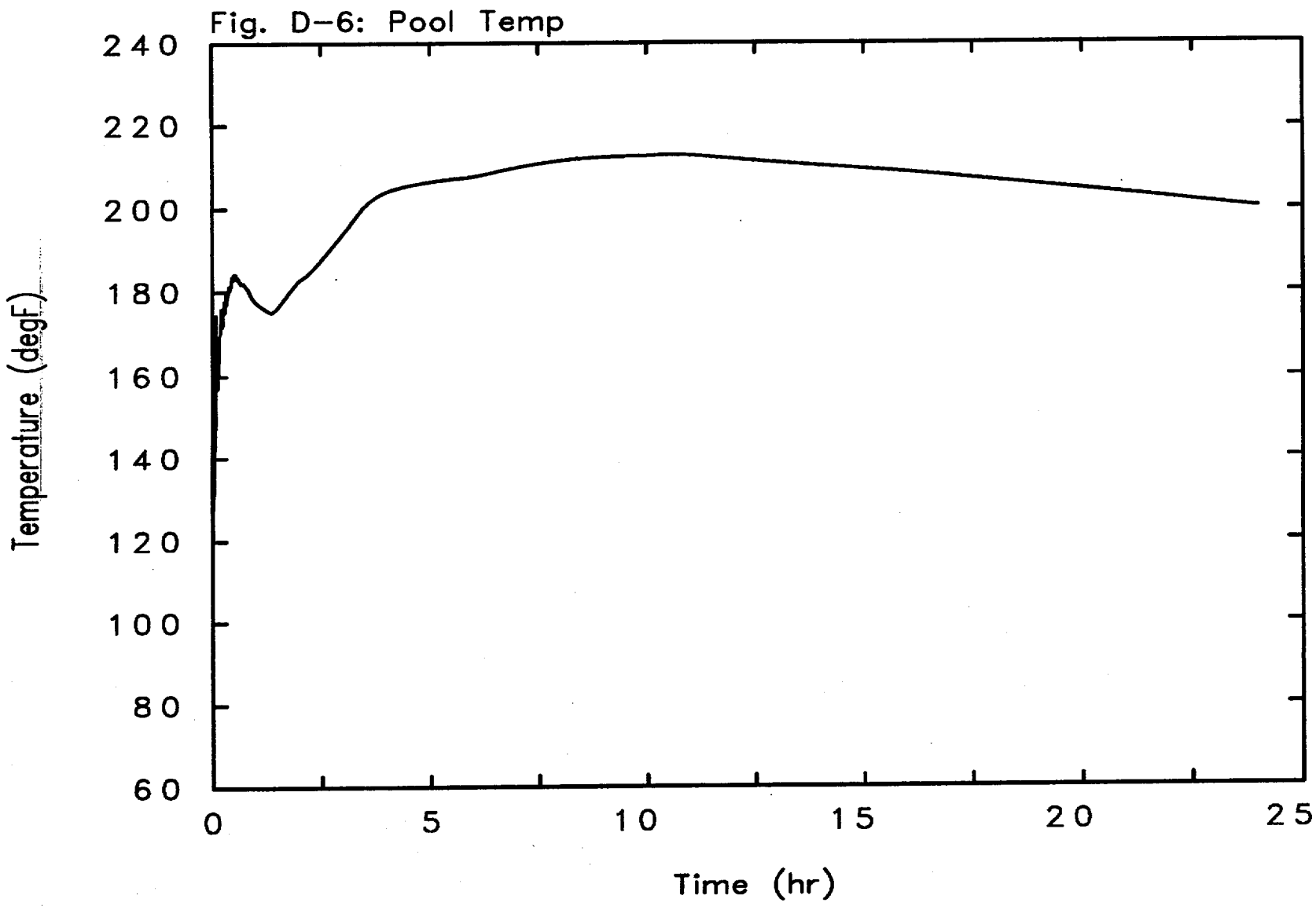

Small LOCA – Large Dry Containment, No Fan Coolers
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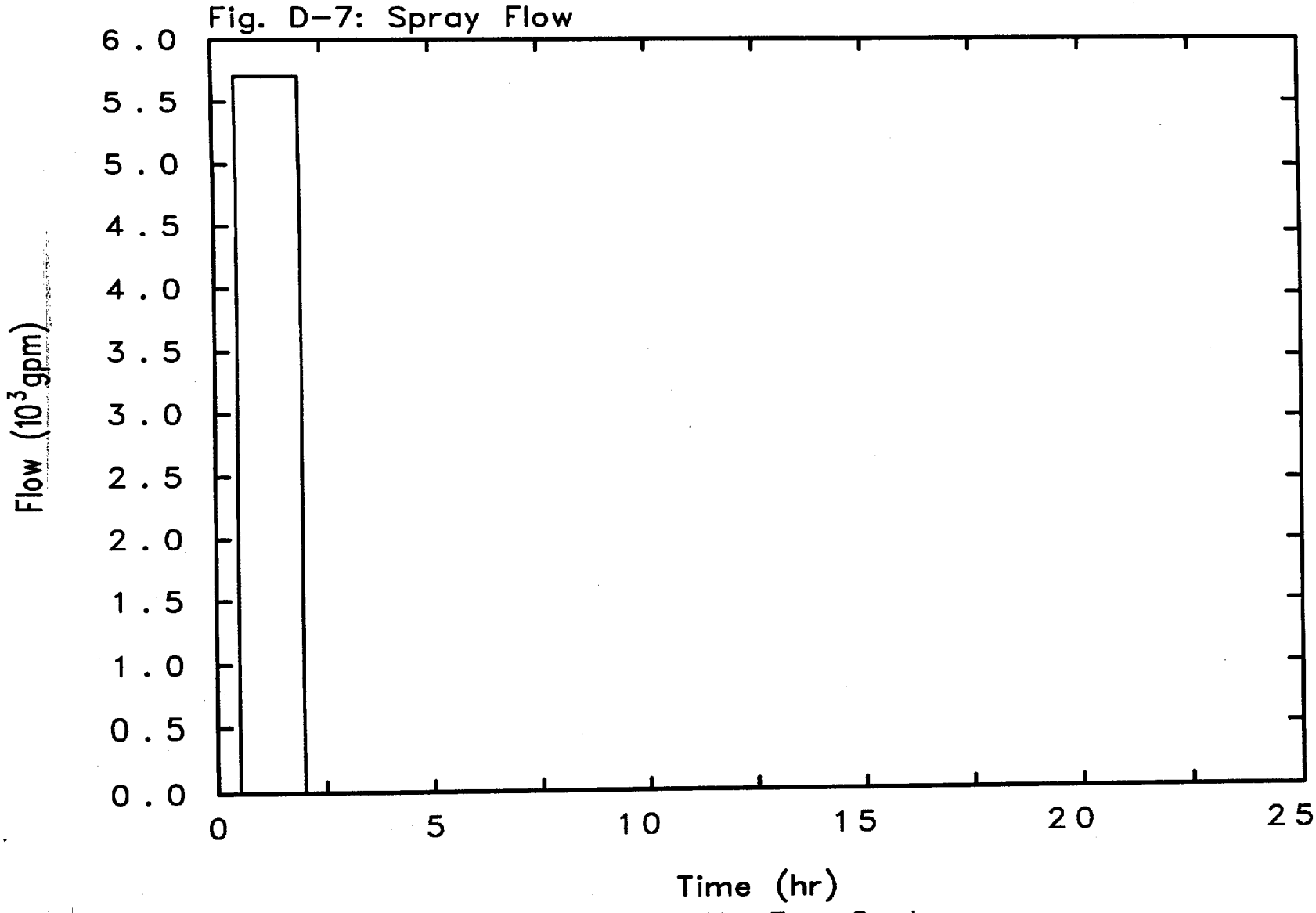
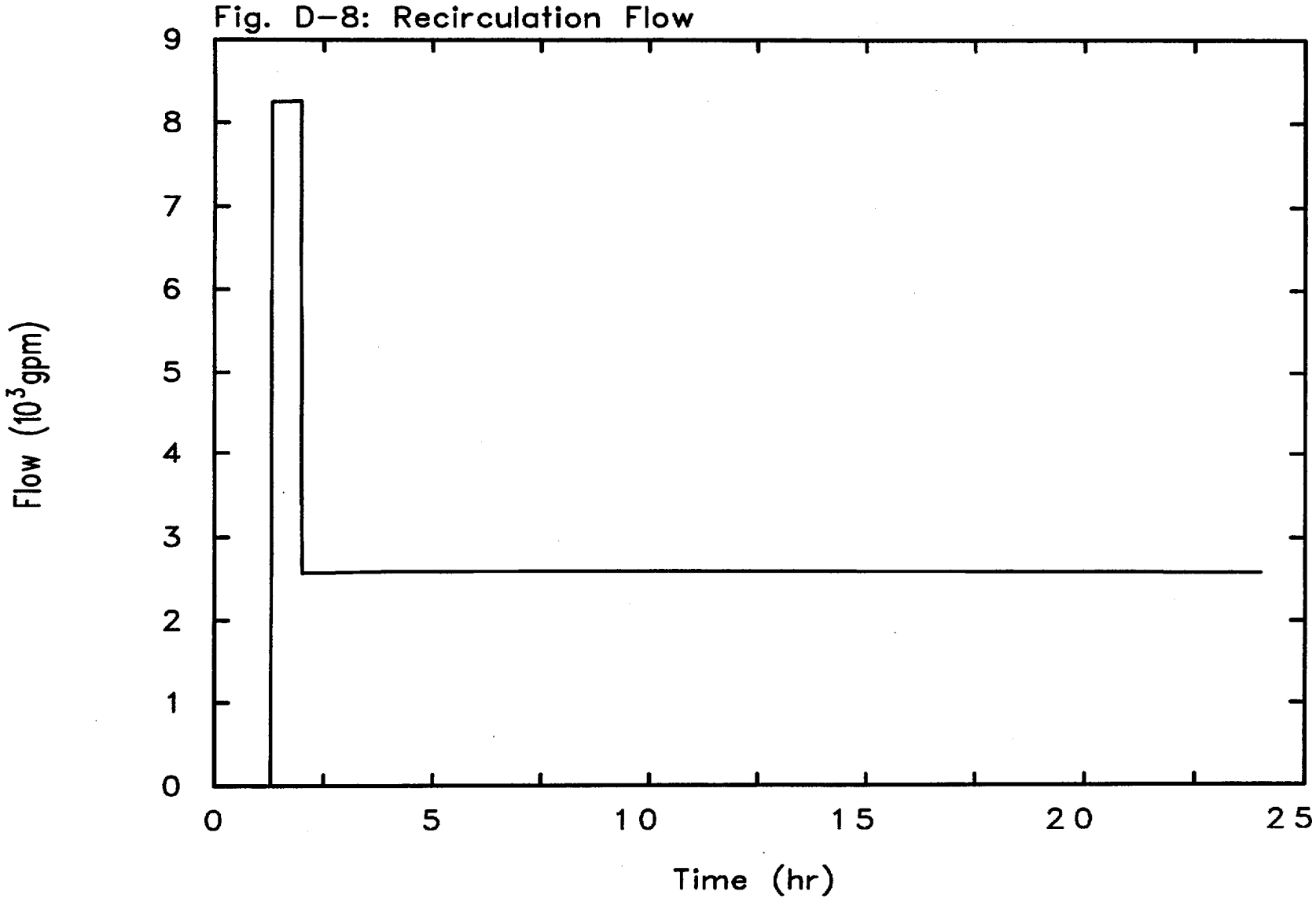
Fig. D-7: Spray Flow



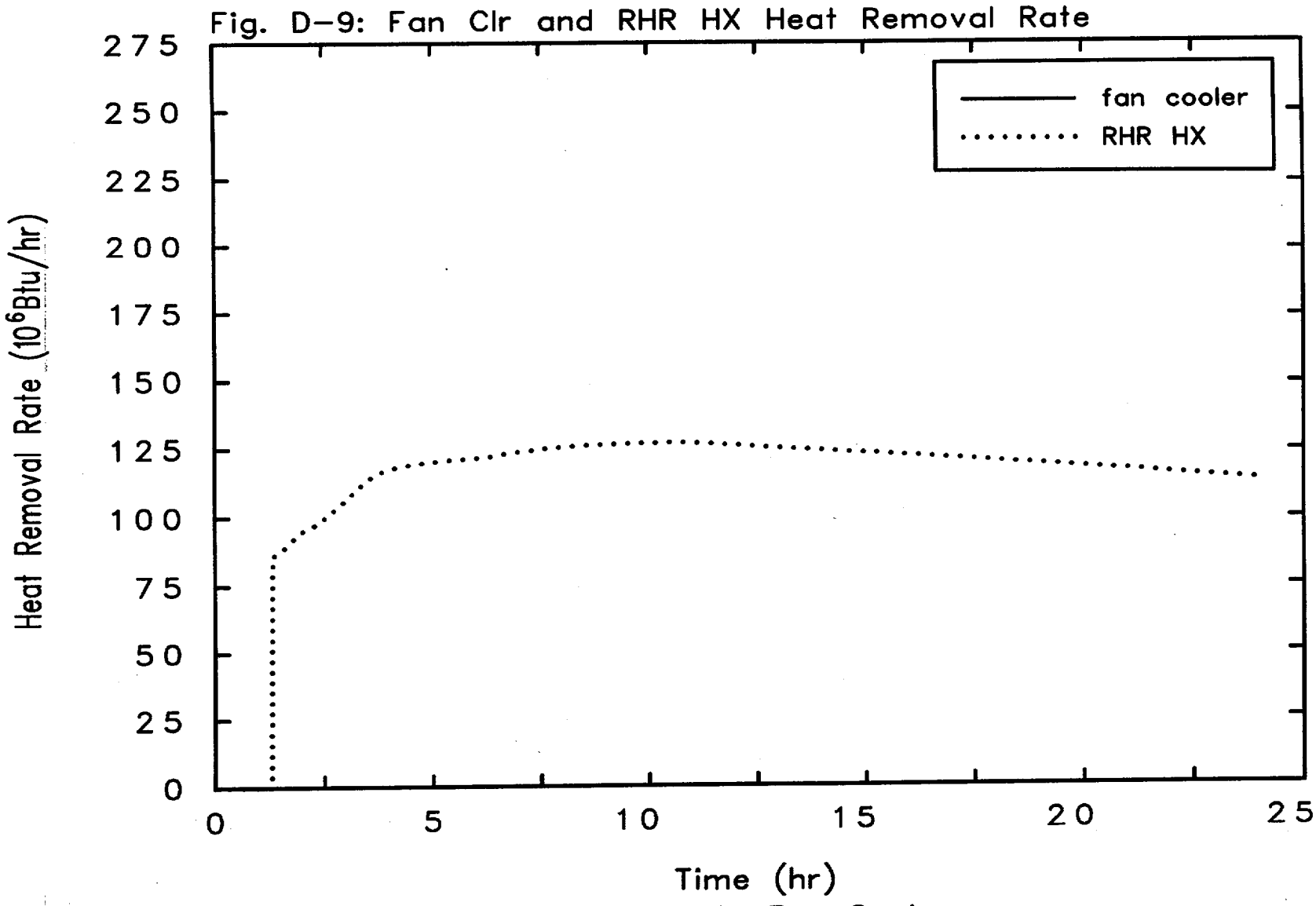
Small LOCA – Large Dry Containment, No Fan Coolers
GAENCESRA 5/07/01 13:24:34 MELCOR
SPR–FL.1

Fig. D-8: Recirculation Flow



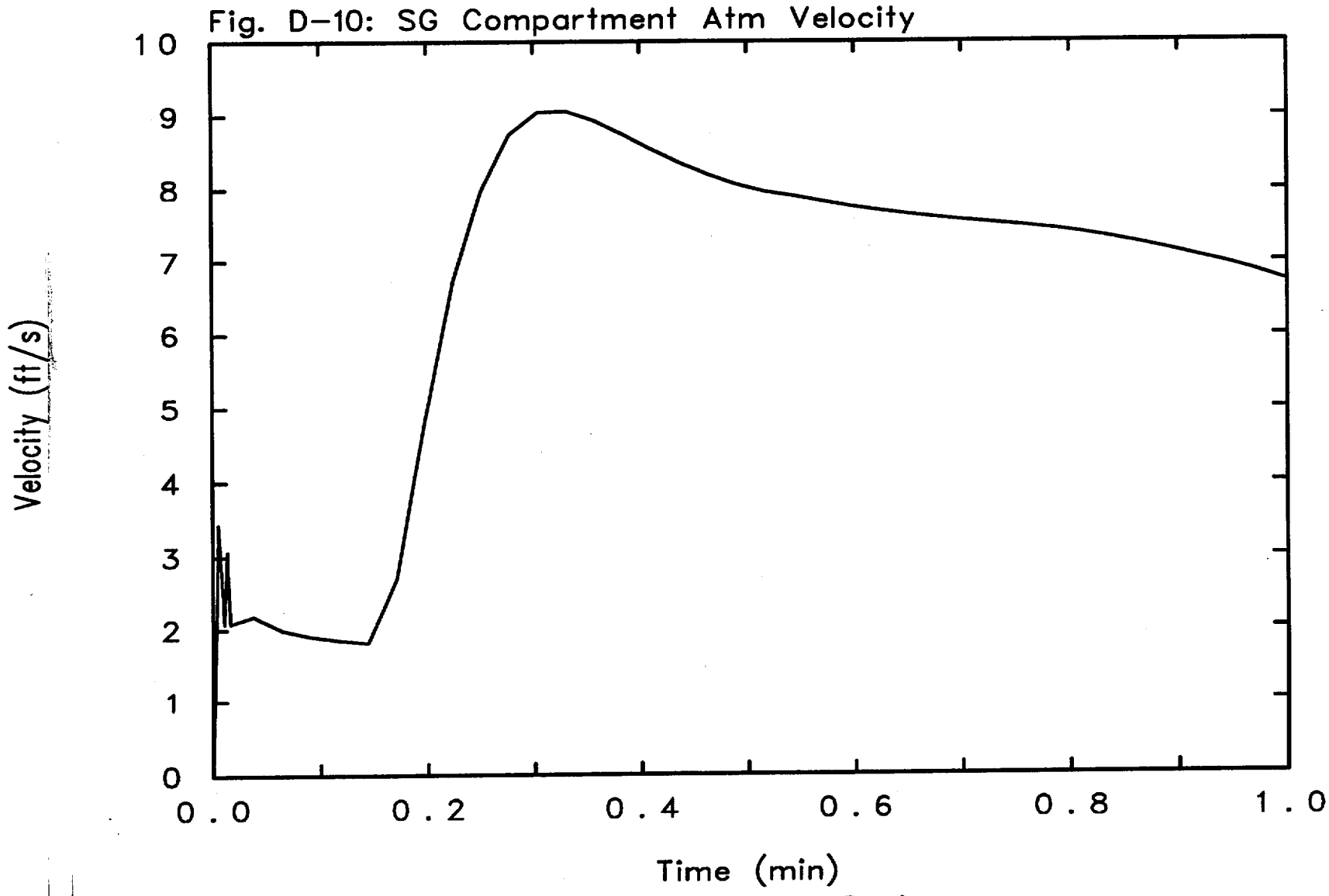
Small LOCA – Large Dry Containment, No Fan Coolers
GAENCESRA 5/07/01 13:24:34 MELCOR
CFVALU.542

Fig. D-9: Fan Clr and RHR HX Heat Removal Rate



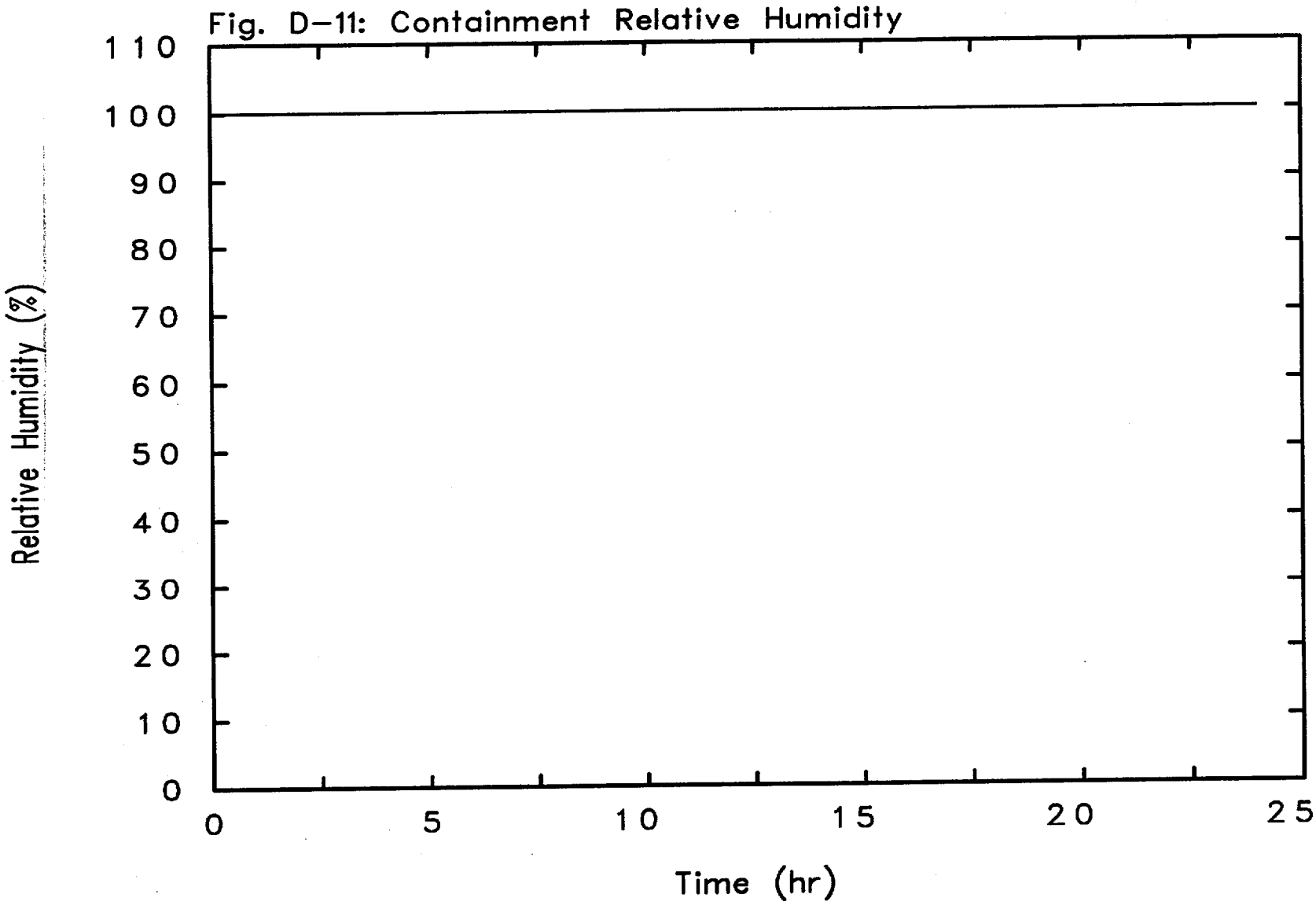
Small LOCA – Large Dry Containment, No Fan Coolers
GAENCESRA 5/07/01 13:24:34 MELCOR

Fig. D-10: SG Compartment Atm Velocity



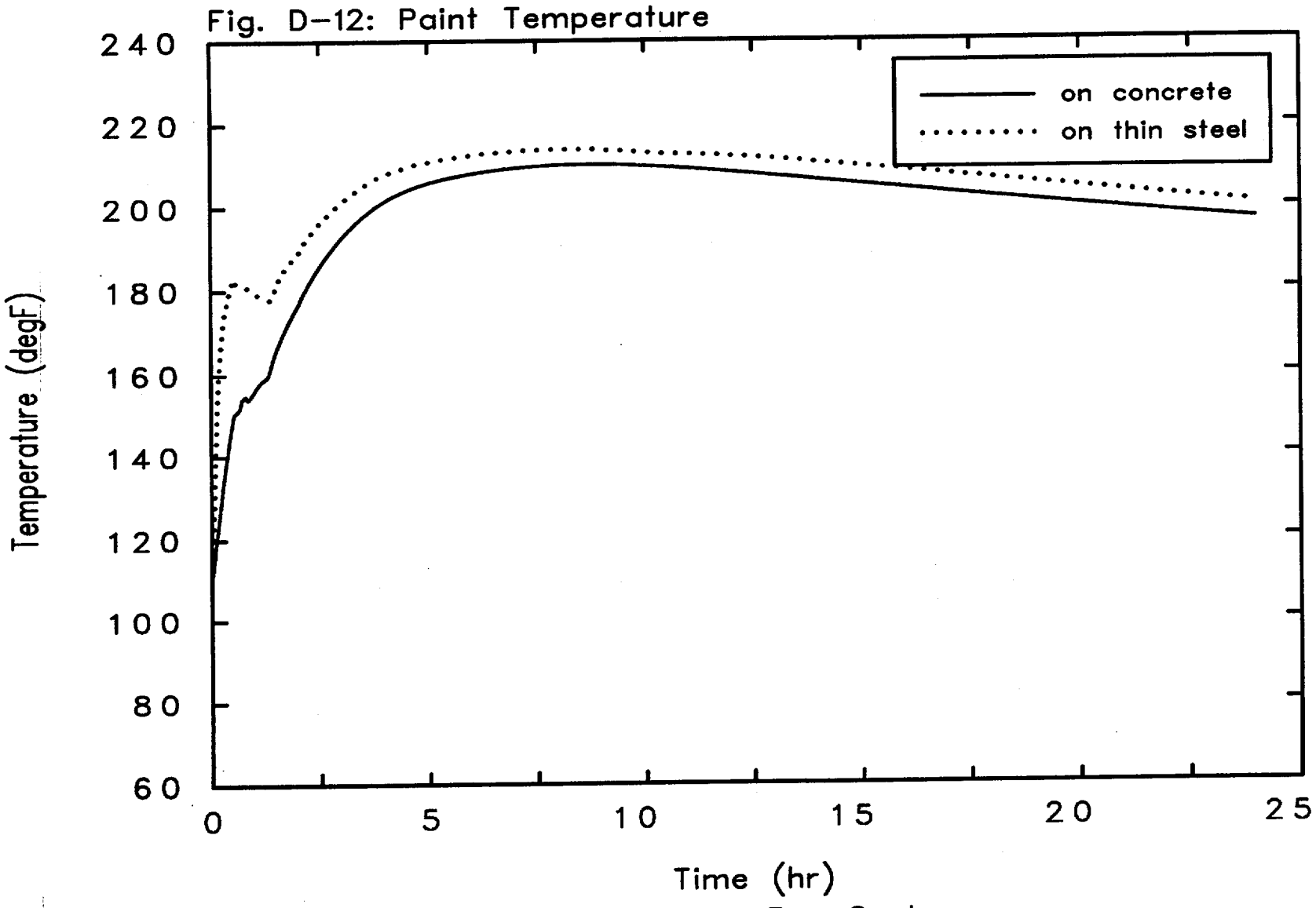
Small LOCA – Large Dry Containment, No Fan Coolers
GAENCESRA 5/07/01 13:24:34 MELCOR
CVH-VELVAPCV.002

Fig. D-11: Containment Relative Humidity



Small LOCA – Large Dry Containment, No Fan Coolers
GAENCESRA 5/07/01 13:24:34 MELCOR
CFVALU.536

Fig. D-12: Paint Temperature



Small LOCA – Large Dry Containment, No Fan Coolers
GAENCESRA 5/07/01 13:24:34 MELCOR