

Table 1

| S-RELAP5 ASSESSMENT MATRIX | | |
|-----------------------------------|--------------|---|
| Facility | Tests | Purpose |
| THTF Heat Transfer | 35 | Heat Transfer |
| THTF Level Swell | 3 | Void Distribution |
| GE Level Swell | 1 | Void Distribution |
| FRIGG-2 | 27 | Void Distribution |
| Bennet Tube | 2 | Heat Transfer |
| FLECHT & FLECHT-SEASET | 9 | Heat Transfer, Nodalization, Axial Power Distribution, Scalability, Entrainment |
| PDTF/SMART | 4 | Spacer Effects |
| Marviken | 9 | Break Flow |
| W/EPRI 1/3 Scale | 9 | Cold Leg Condensation, Interfacial Heat Transfer |
| Mini-Loop CCFL | 3 | Upper Tie Plate CCFL |
| Multi-dimensional Flow | 3 | Core Flow Distribution |
| UPTF | 14 | ECCS Bypass, Steam Binding, CCFL, Scalability, Nodalization |
| CCF | 4 | Steam Binding, Nodalization, Scalability |
| SCTF | 6 | Nodalization |
| ACHILLES | 1 | Accumulator Nitrogen Disch. |
| LOFT | 4 | Overall Code Performance, Nodalization, Scalability |
| Semiscale | 2 | Blowdown Heat Transfer, Nodalization, SCALABILITY, Compensating Errors |

FLECHT-SEASET Test 31302

Steam Temperature Profile at 17 s (time of PCT)

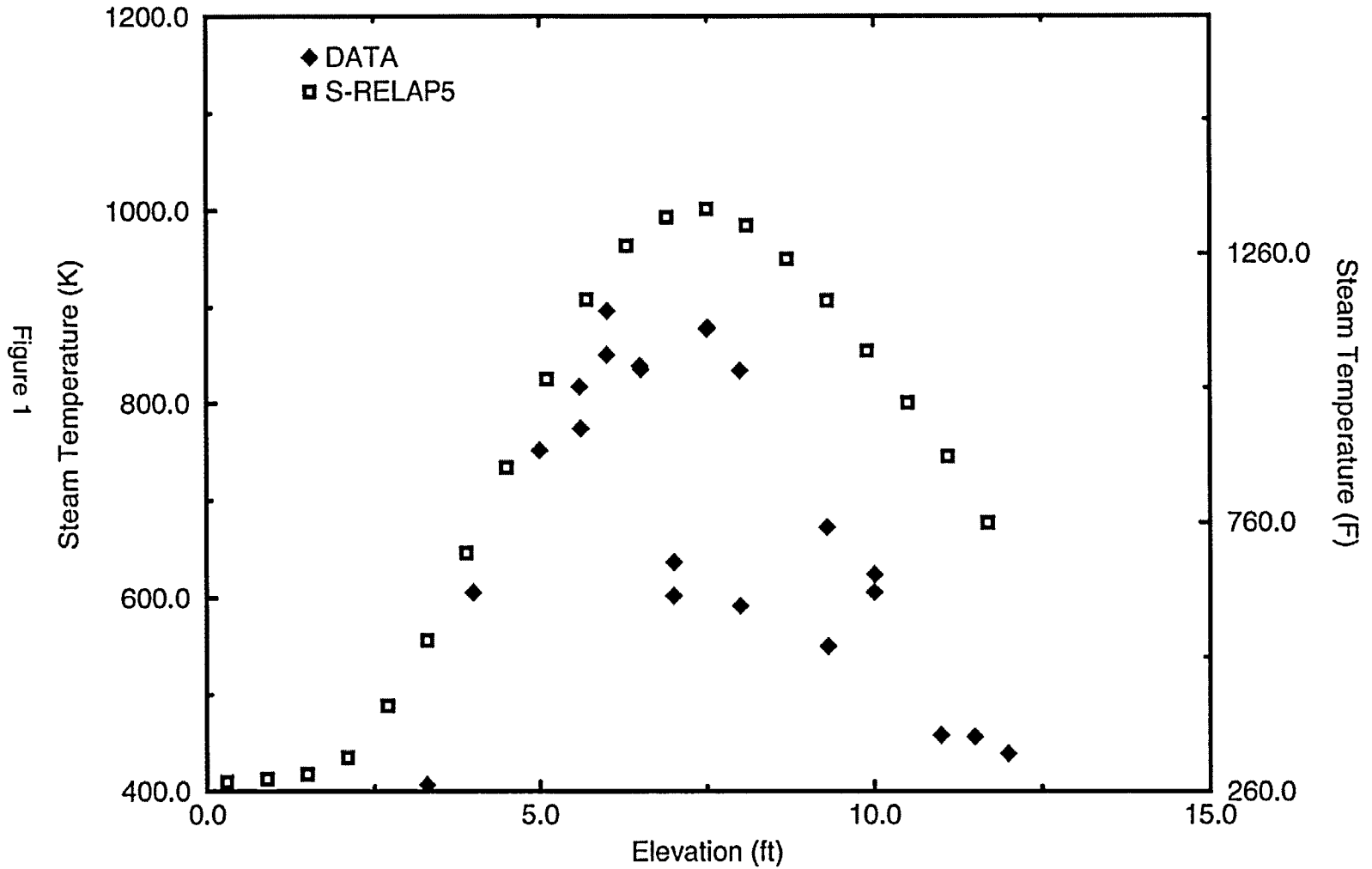


Figure 1

Figure 2

LOFT LP-LB-1 S-RELAP5 ANALYSIS/PLOT FILE NAME 0b-1_pct_00.epr JOB ID make_pct_plot_base.03250, DATE Thu Jul 26 16:35:25 PDT 2001

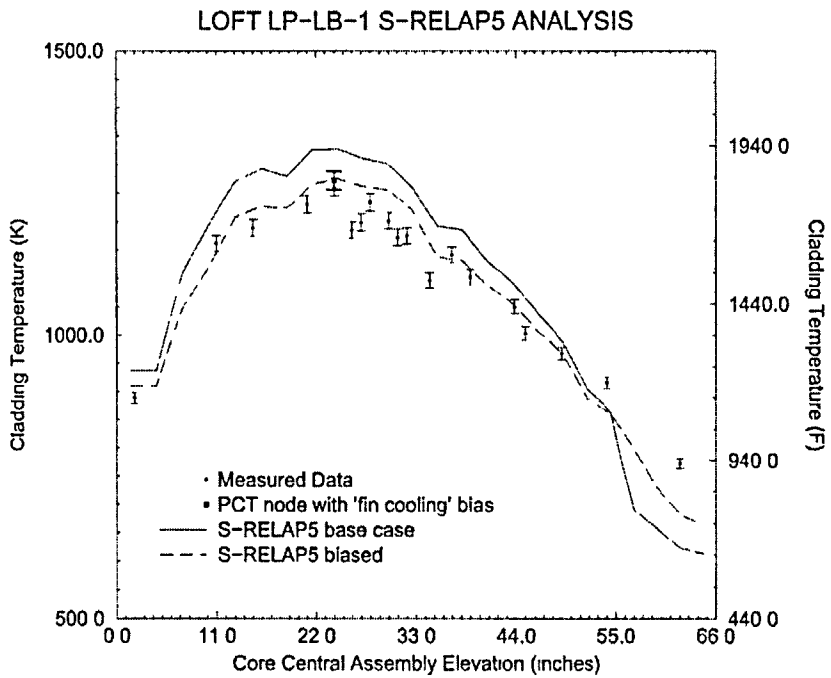


Figure 4.194 LOFT LP-LB-1 PCT Profile

LOFT LP-LB-1 S-RELAP5 ANALYSIS PLOT FILE NAME 06b-1_pcl_00.eps JOB ID make_pcl_plot_bias 03250 DATE Thu Jul 28 16:35:25 PDT 2001

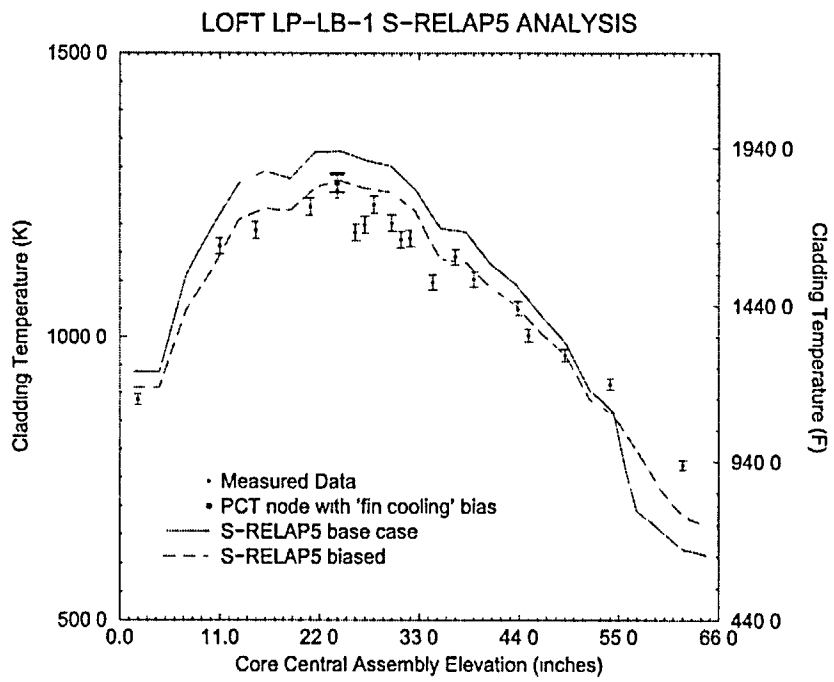


Figure 4.194 LOFT LP-LB-1 PCT Profile

Figure 3

PCT Independent of Location – PWR

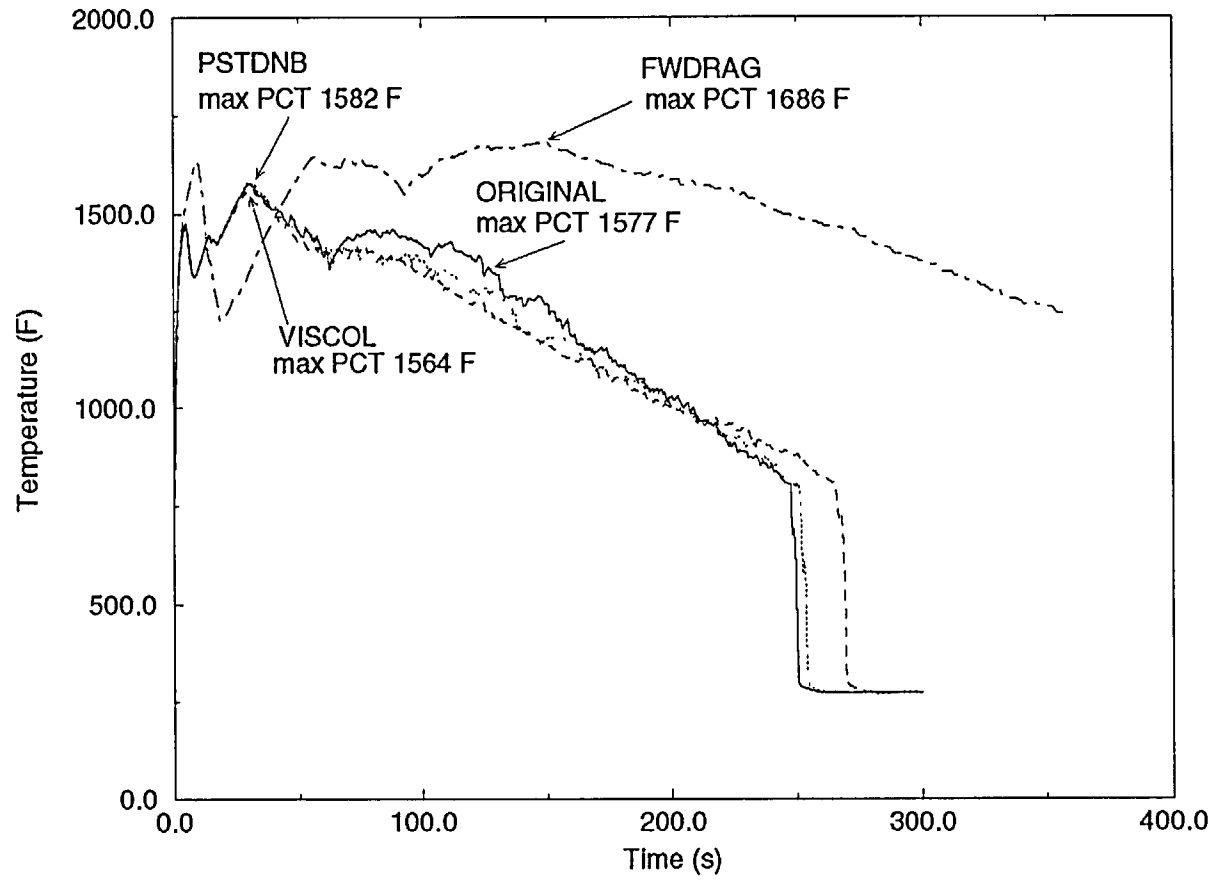


Figure 4

PCT Independent of Location – PWR

Modified FWDRAG

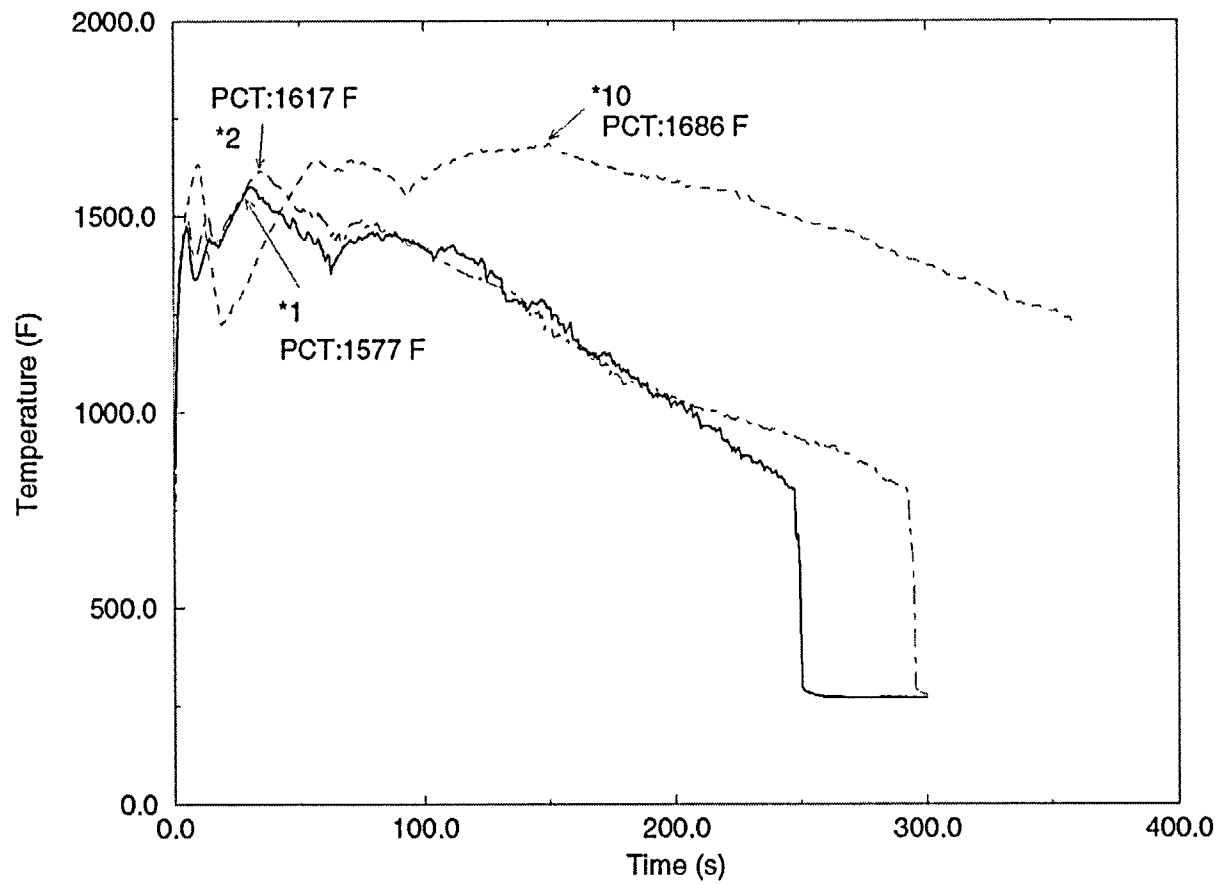


Figure 5

Peak Clad Temperature – FS 31504

Modifications to FWDRAG

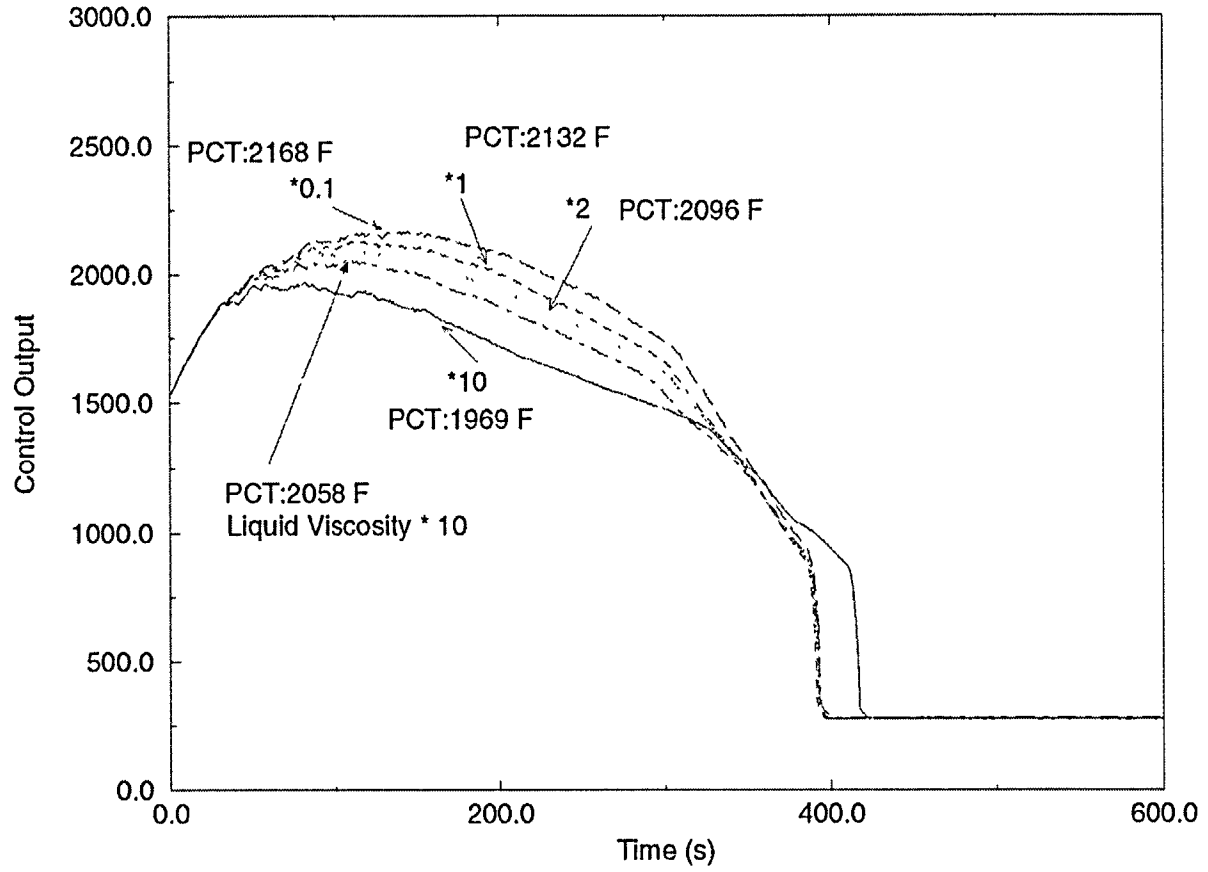


Figure 6