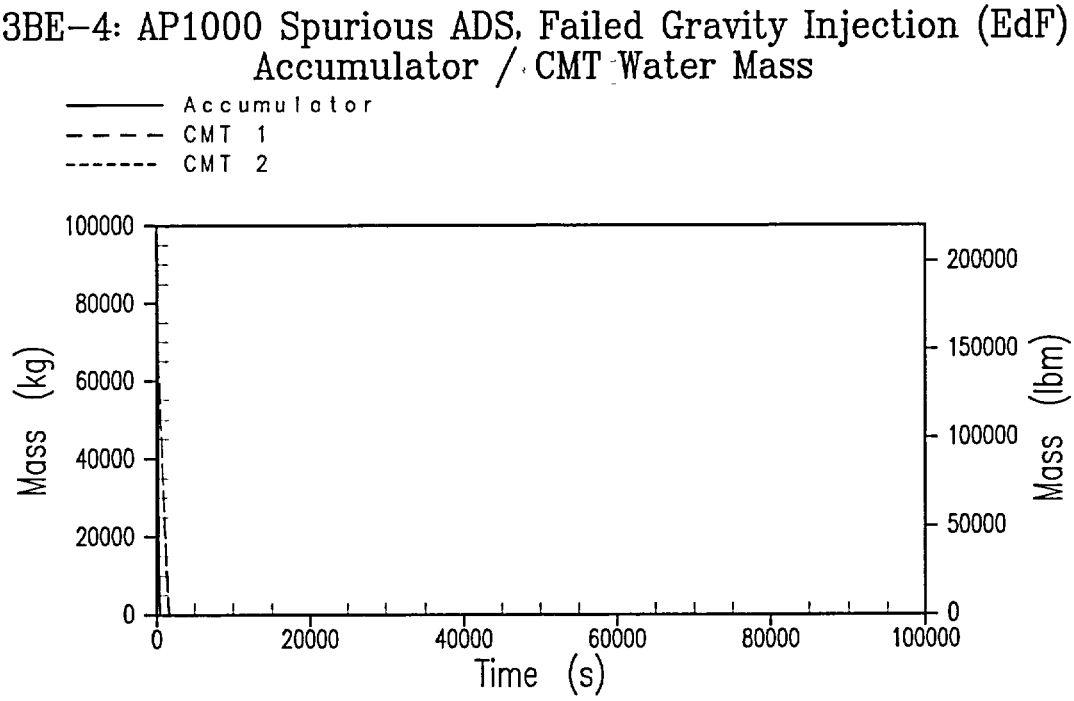

Figure 34-37

Case 3BE-4: Accumulator / CMT Water Mass

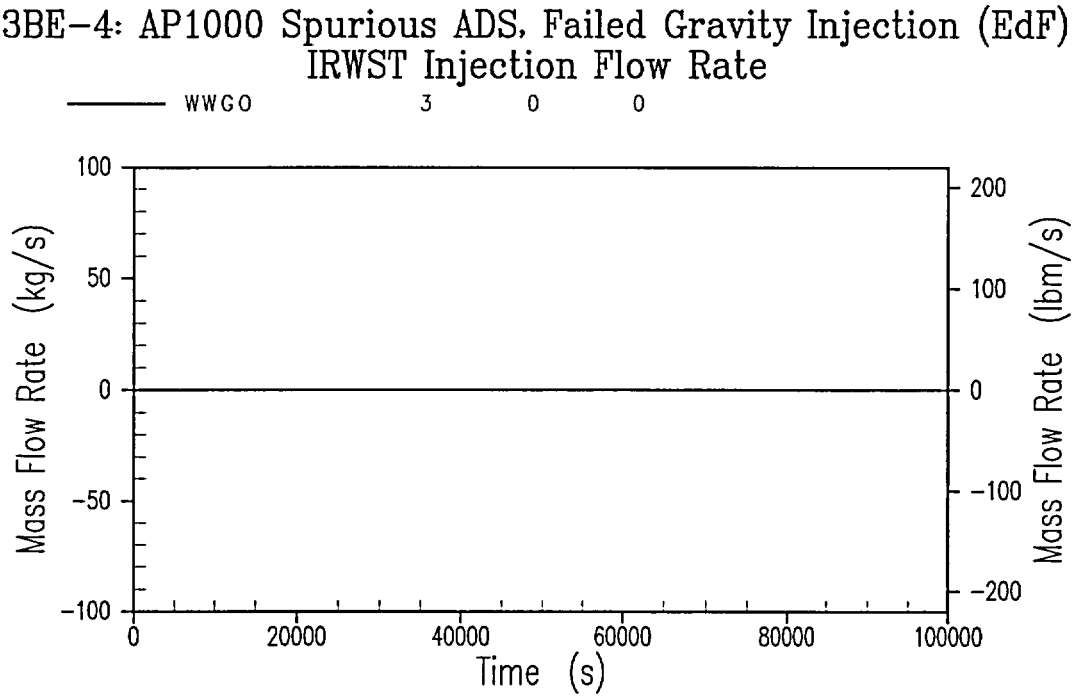

Figure 34-38

Case 3BE-4: IRWST Injection Flow Rate

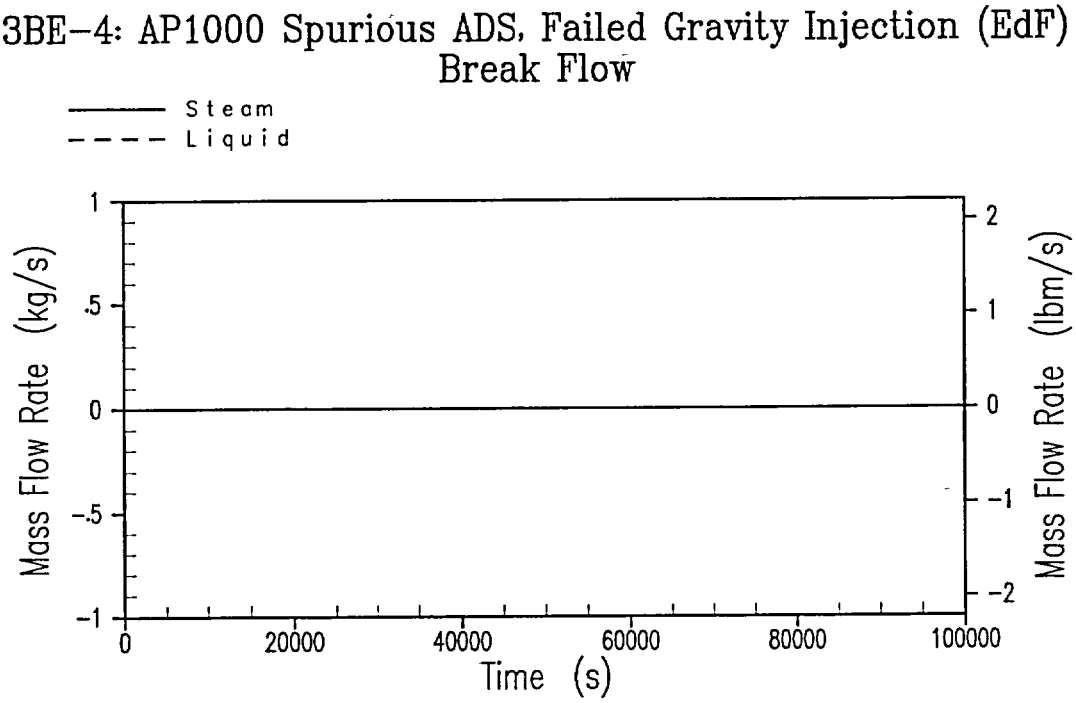

Figure 34-39

Case 3BE-4: Break Flow Rate

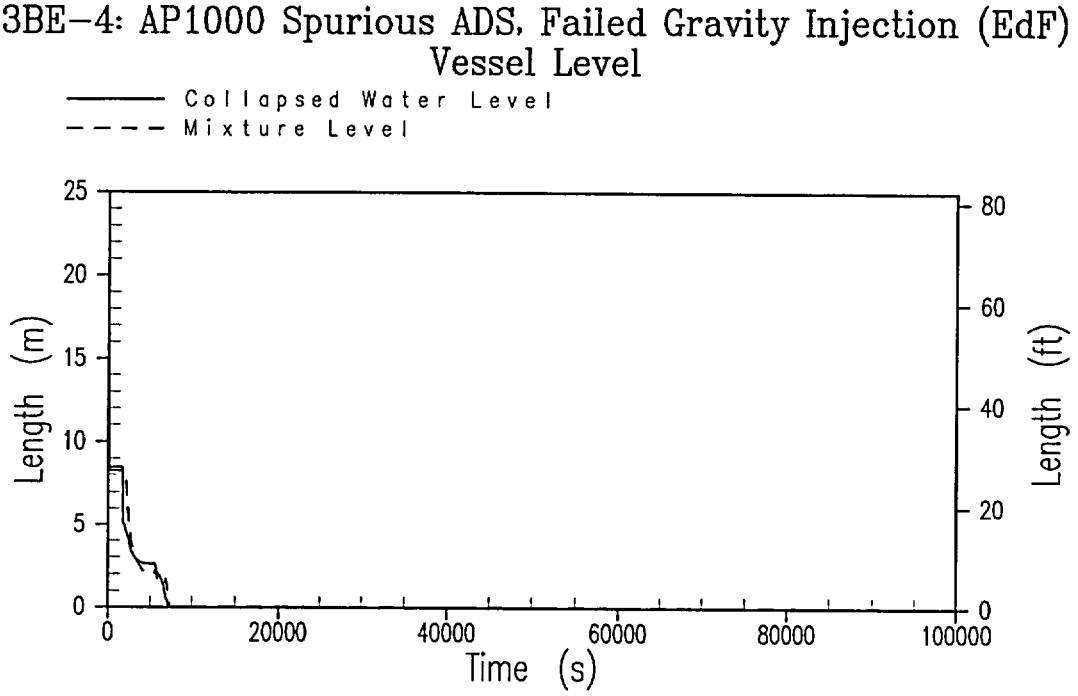

Figure 34-40

Case 3BE-4: Reactor Vessel Water Level

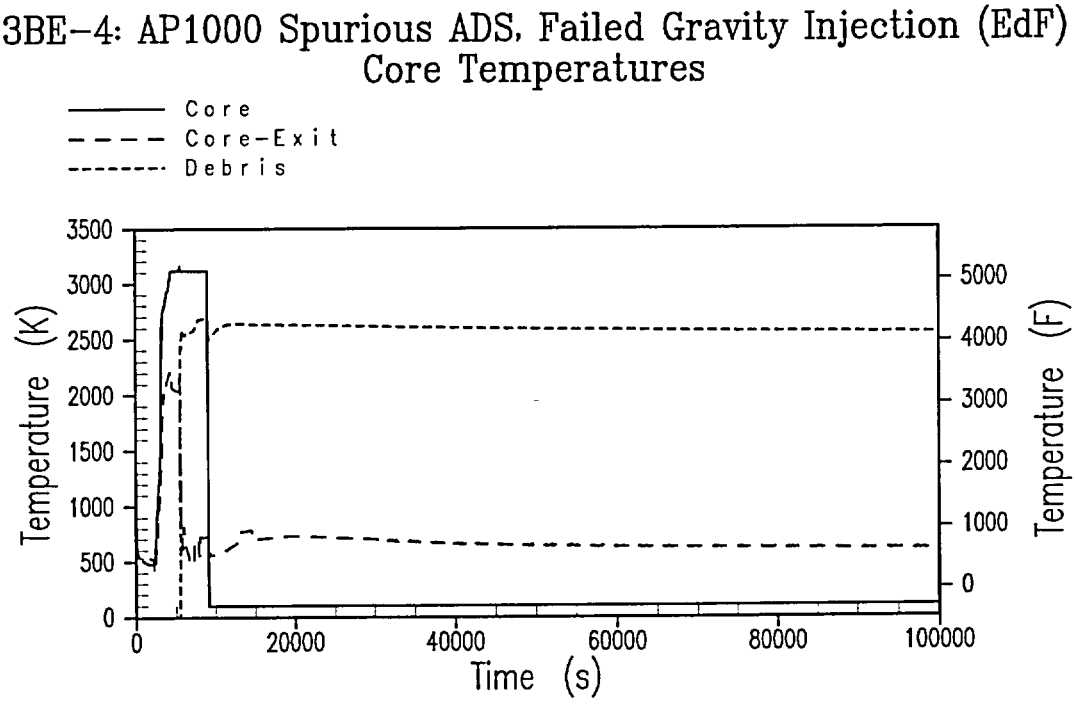

Figure 34-41

Case 3BE-4: Core Temperatures

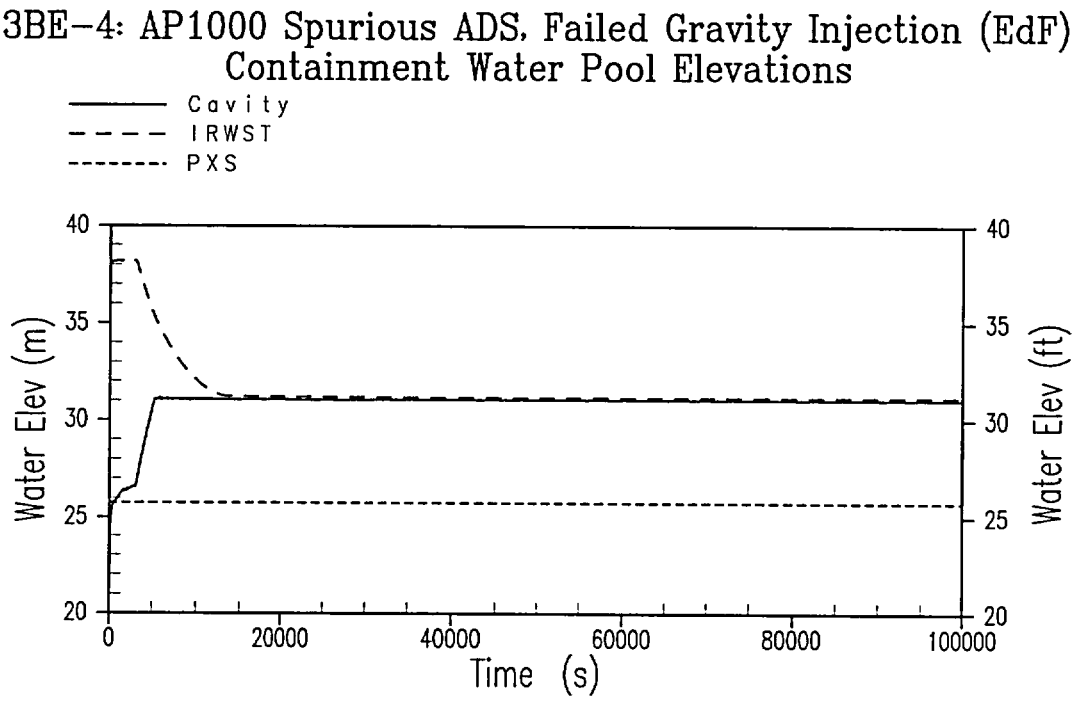

Figure 34-42

Case 3BE-4: Containment Water Pool Elevations

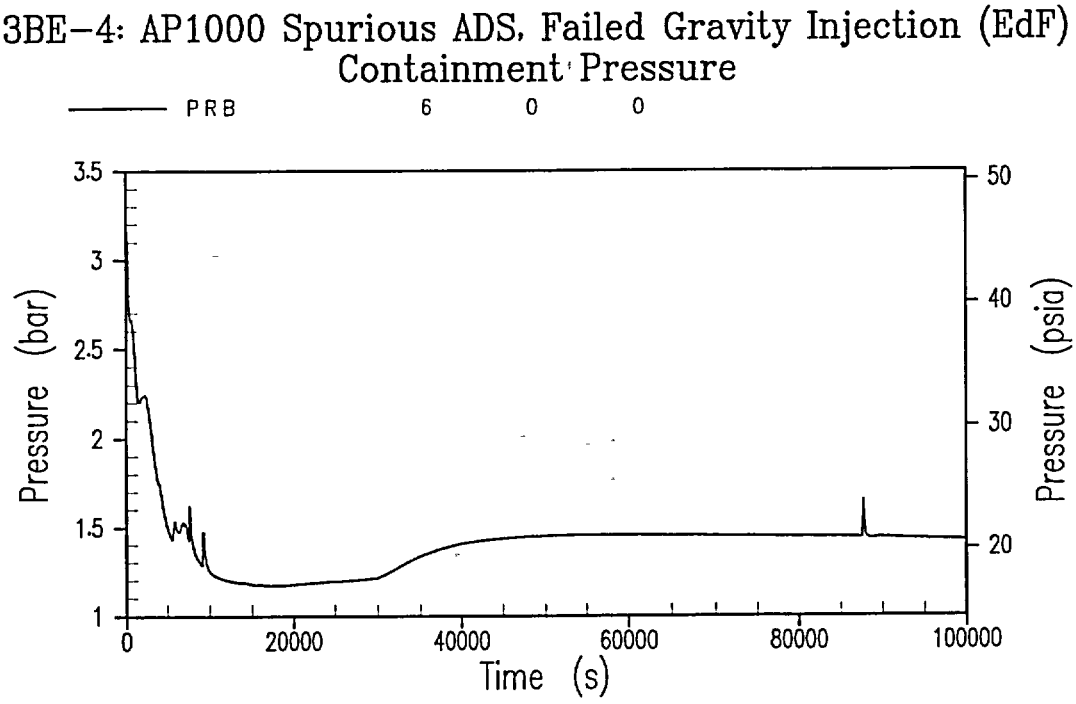

Figure 34-43

Case 3BE-4: Containment Pressure

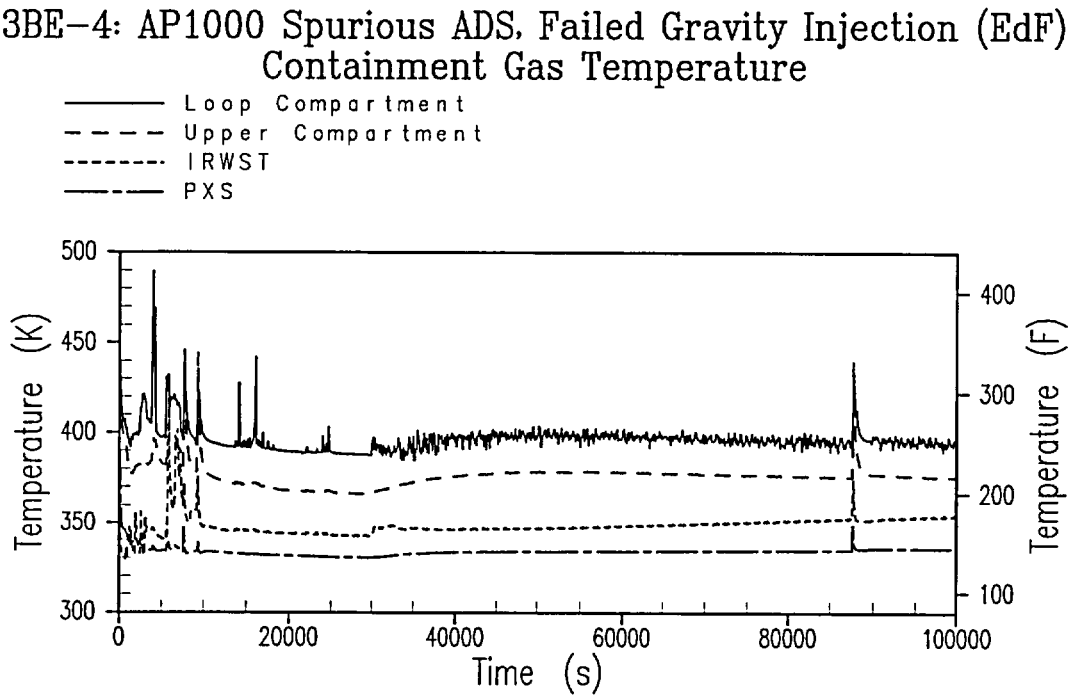

Figure 34-44

Case 3BE-4: Containment Gas Temperatures

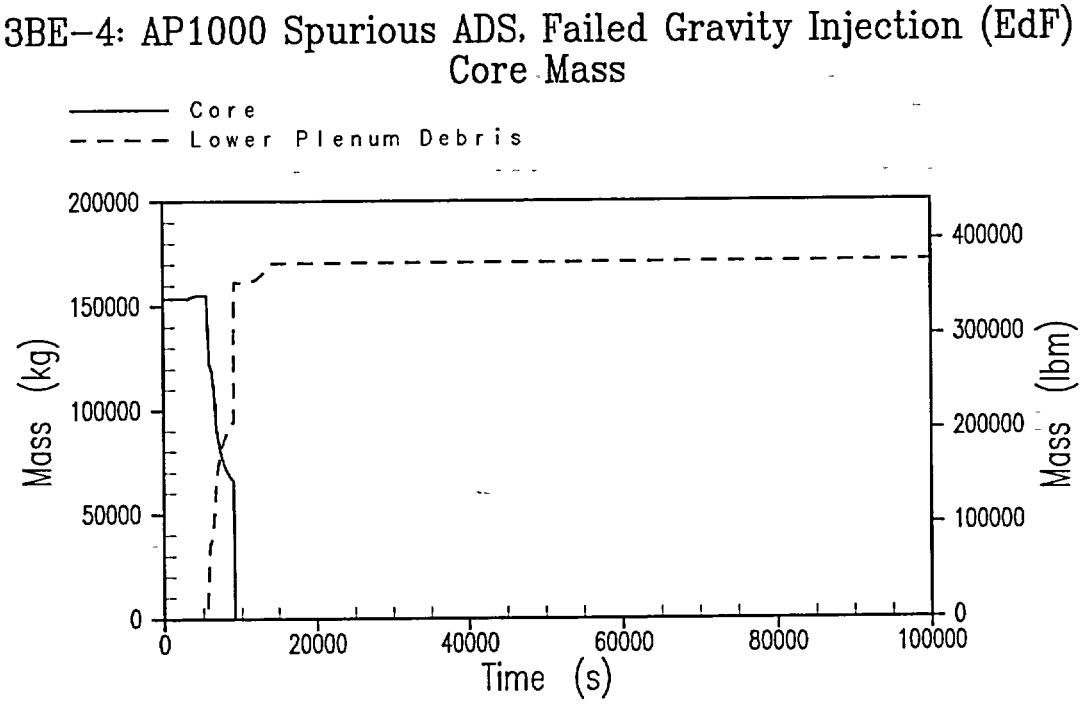

Figure 34-45

Case 3BE-4: Core Mass

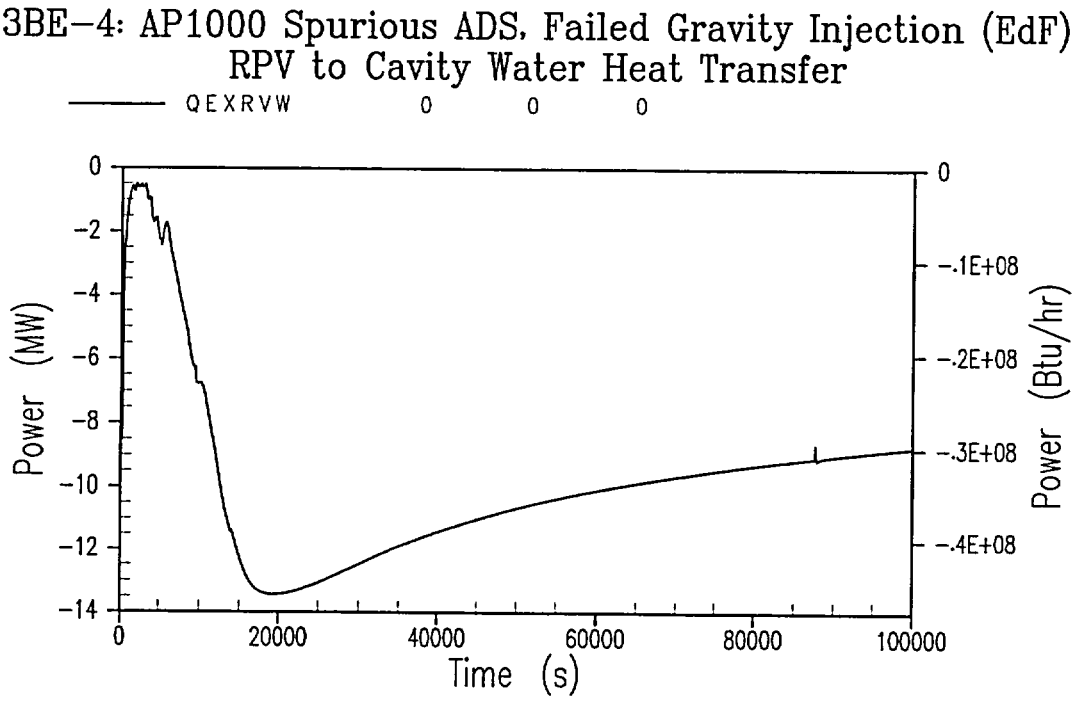

Figure 34-46

Case 3BE-4: Reactor Pressure Vessel to Cavity Water Heat Transfer

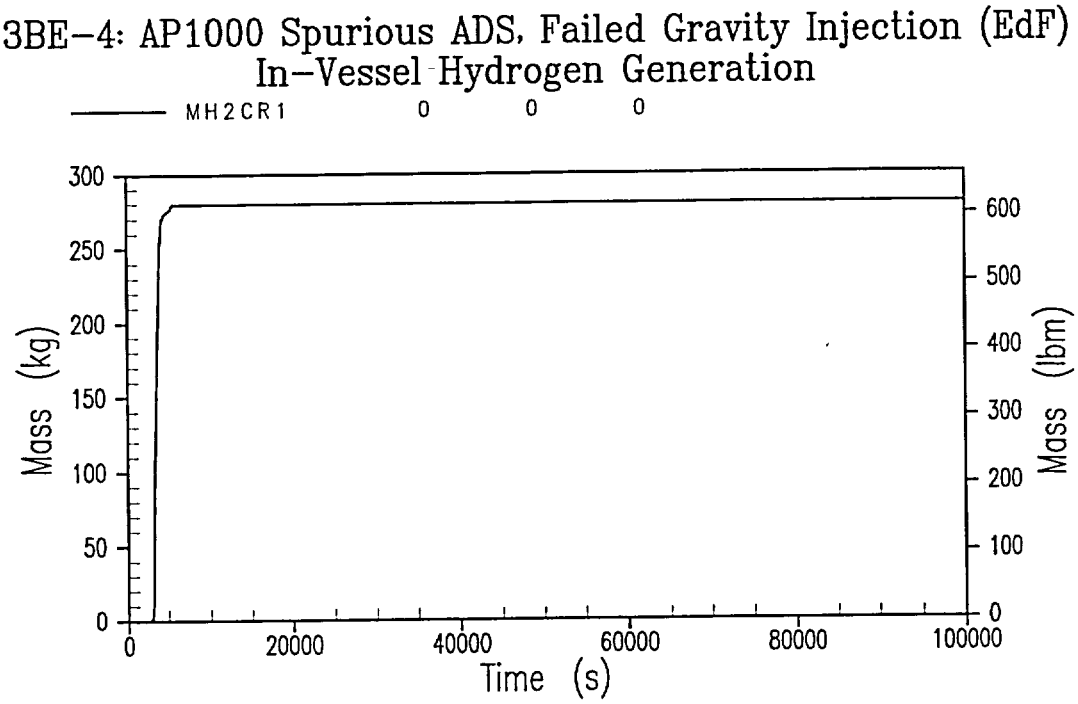

Figure 34-47

Case 3BE-4: In-Vessel Hydrogen Generation

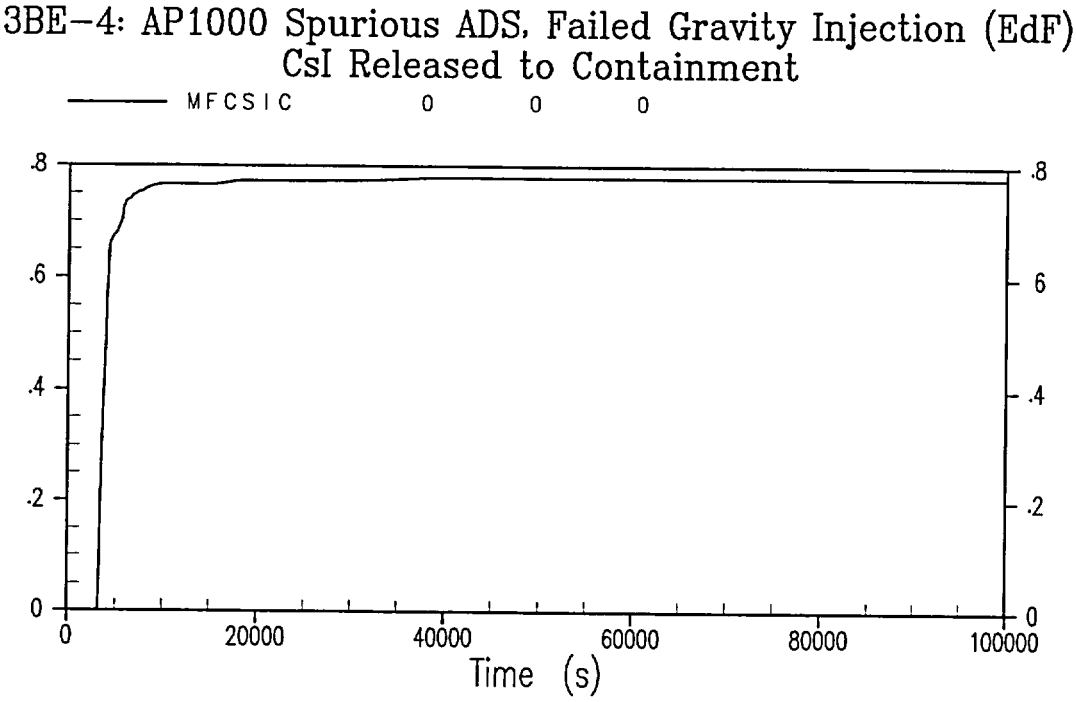

Figure 34-48

Case 3BE-4: Mass Fraction of CsI Released to Containment

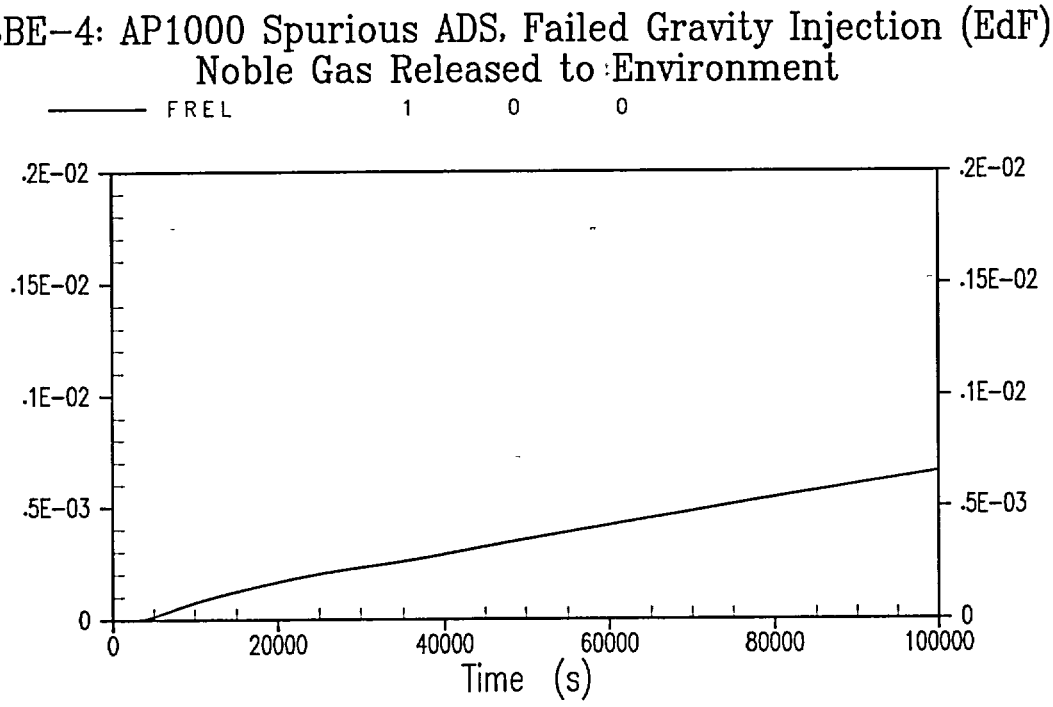

Figure 34-49

Case 3BE-4: Mass Fraction of Noble Gases Released to Environment

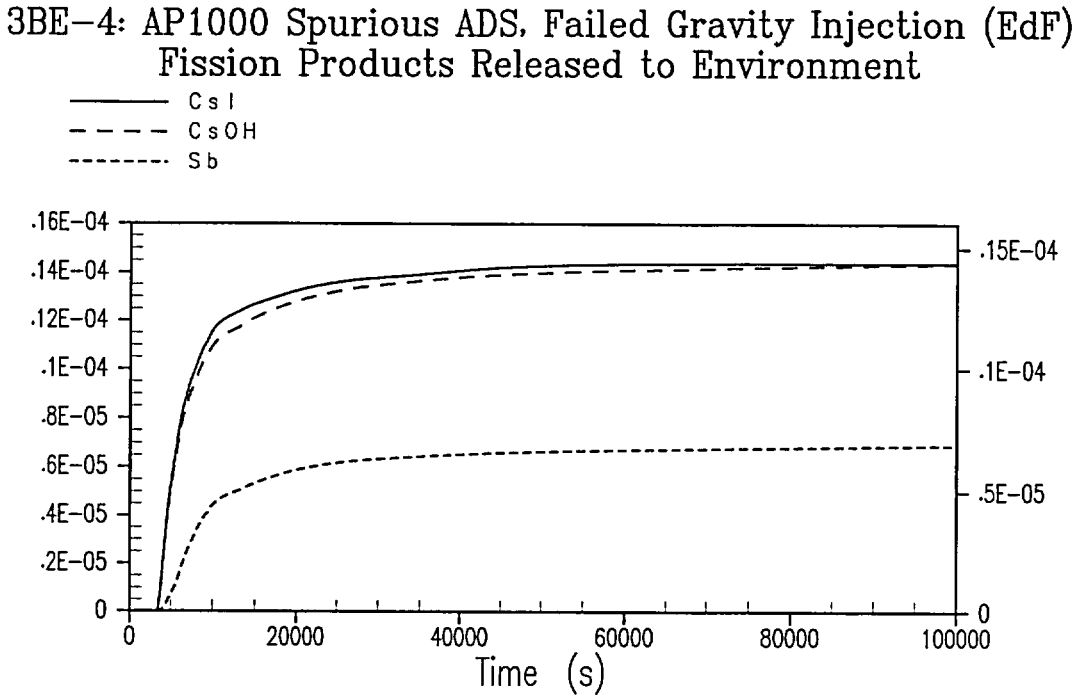

Figure 34-50

Case 3BE-4: Mass Fraction of Fission Products Released to Environment

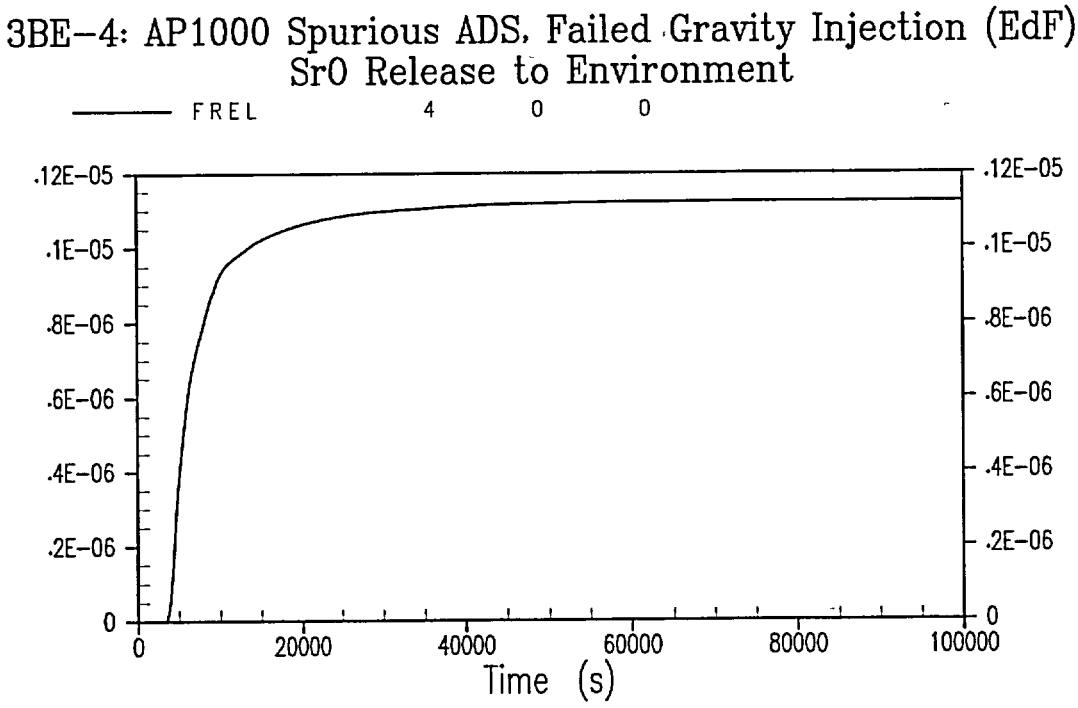

Figure 34-51

Case 3BE-4: Mass Fraction of SrO Released to Environment

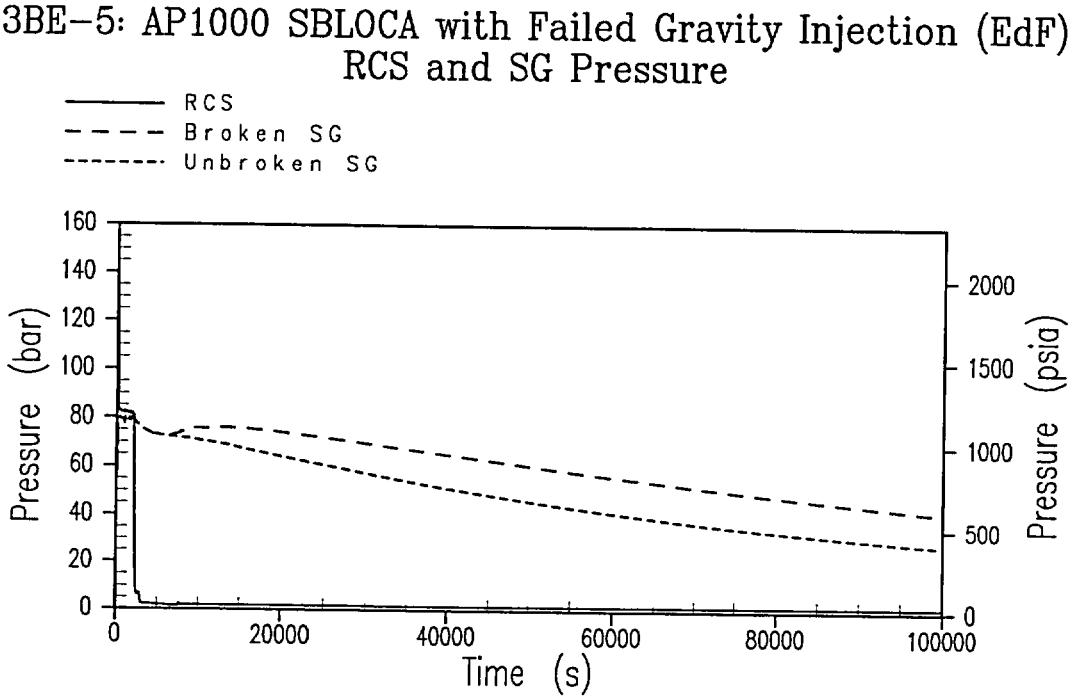

Figure 34-52

Case 3BE-5: RCS and Steam Generator Pressure

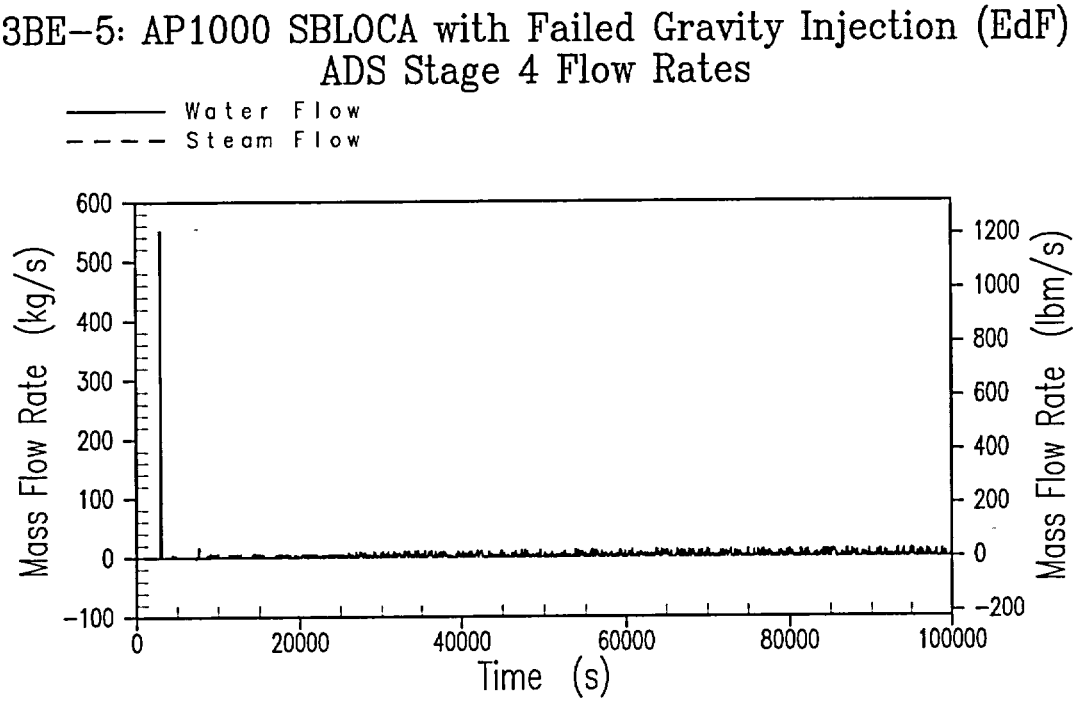

Figure 34-53

Case 3BE-5: ADS Stage 4 Flow Rates

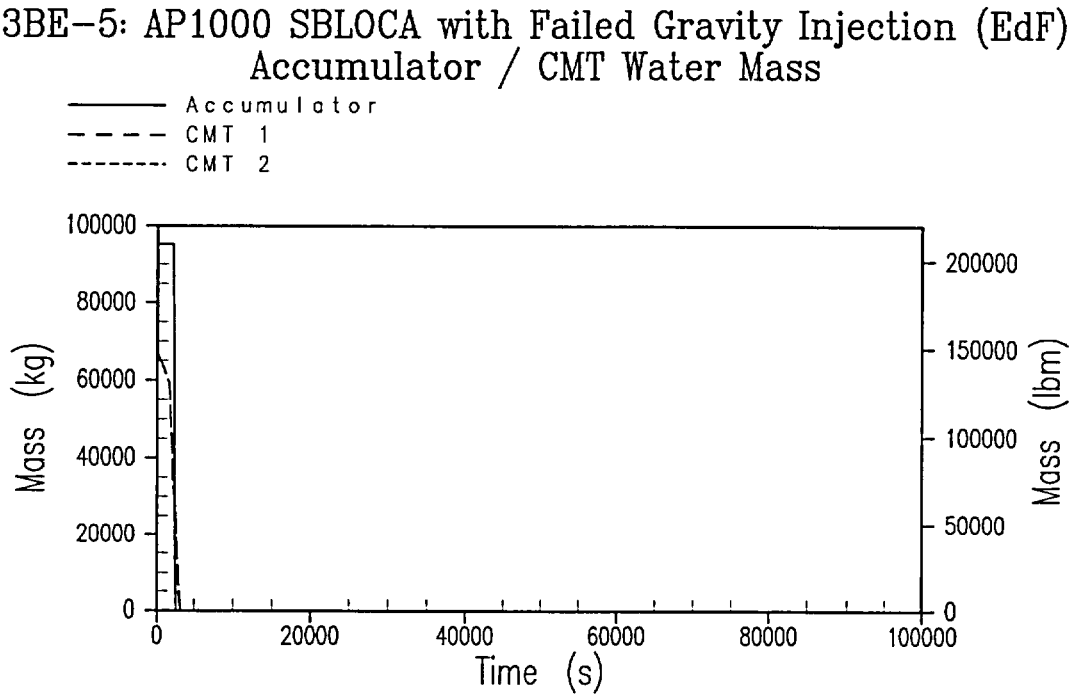

Figure 34-54

Case 3BE-5: Accumulator / CMT Water Mass

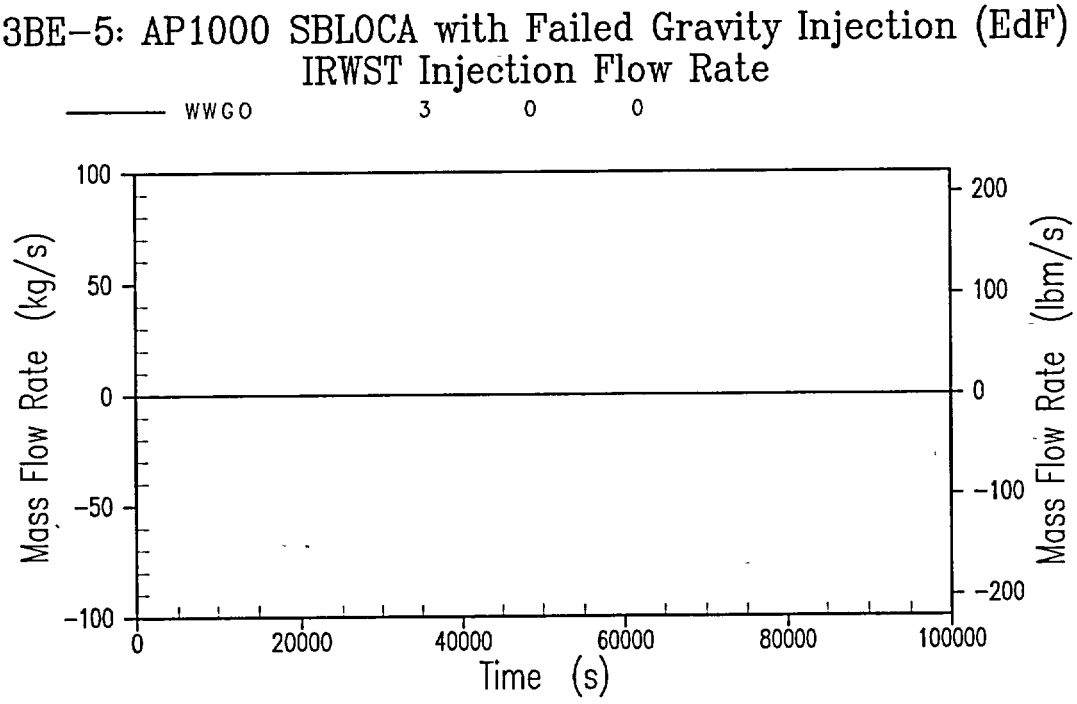

Figure 34-55

Case 3BE-5: IRWST Injection Flow Rate

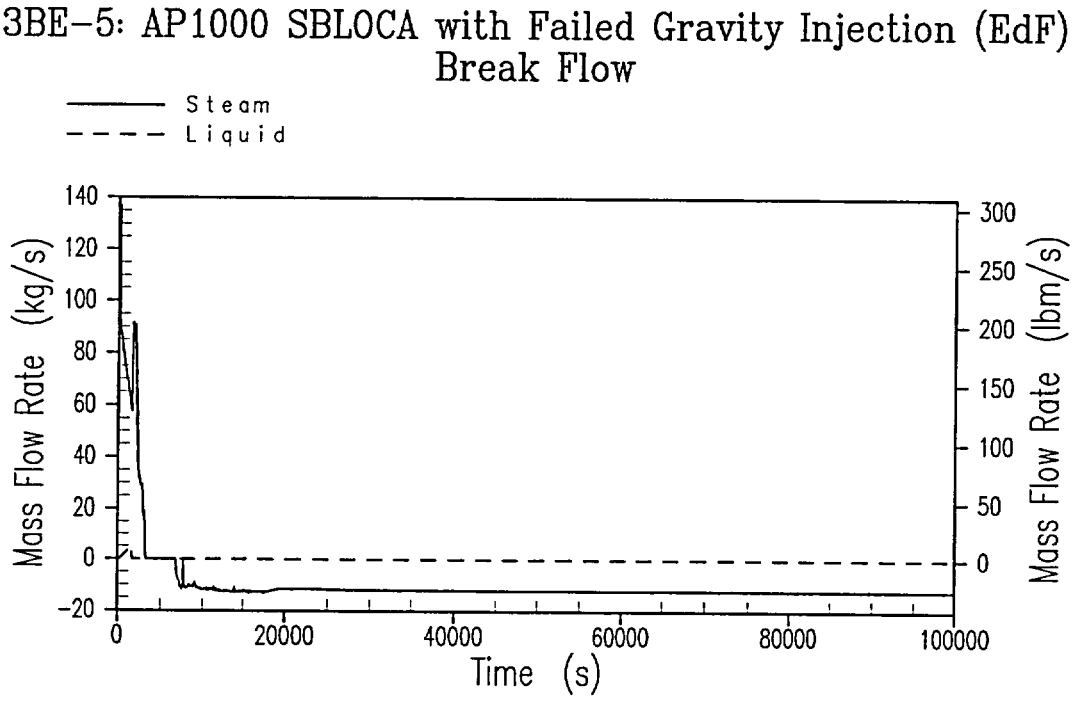

Figure 34-56

Case 3BE-5: Break Flow Rate

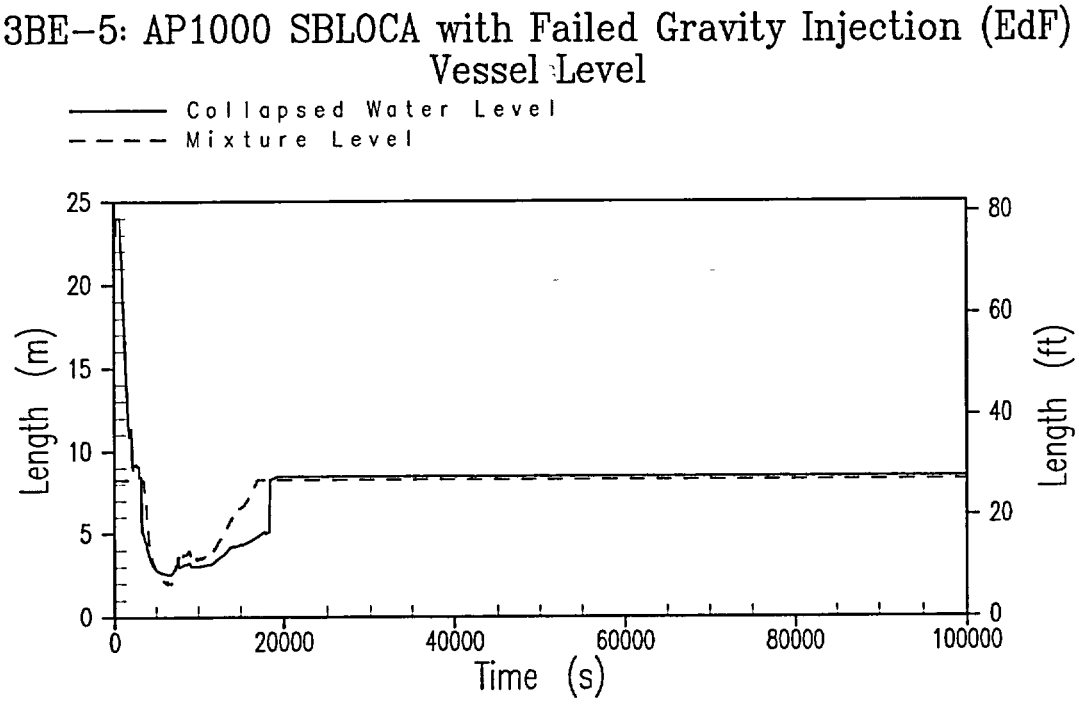

Figure 34-57

Case 3BE-5: Reactor Vessel Water Level

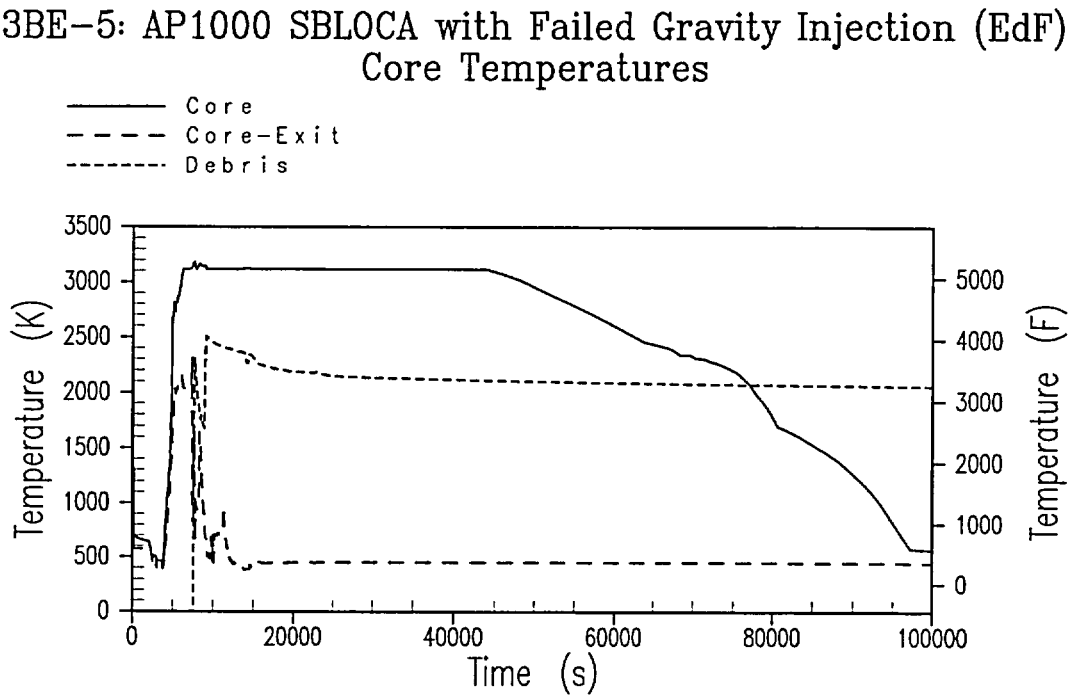

Figure 34-58

Case 3BE-5: Core Temperatures

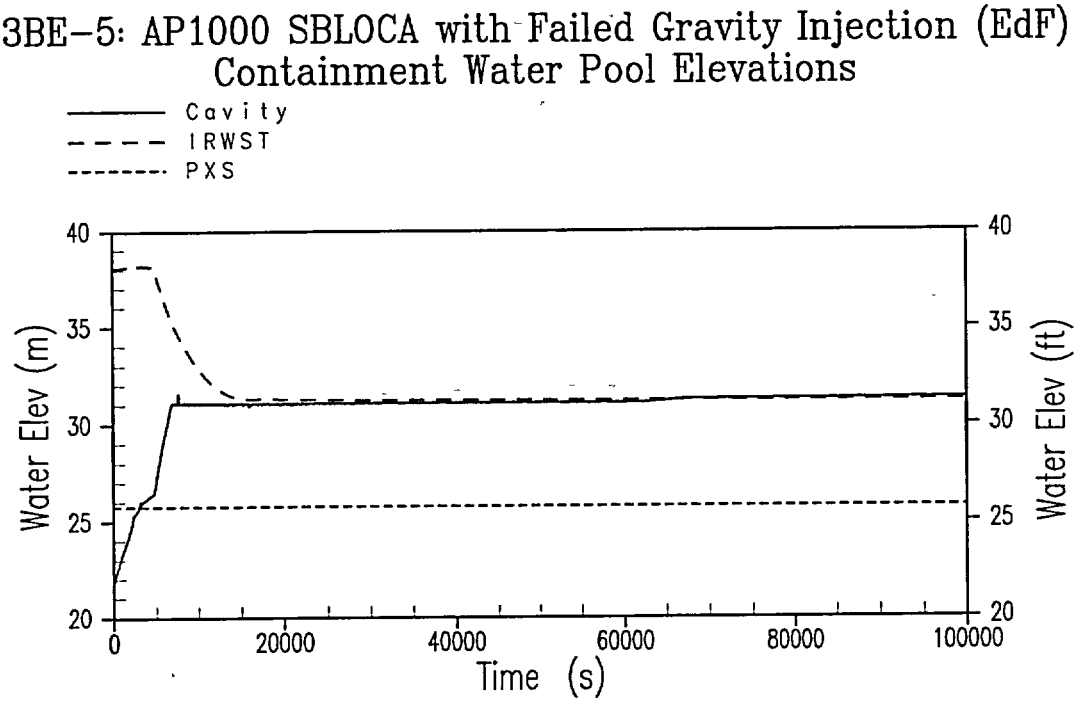

Figure 34-59

Case 3BE-5: Containment Water Pool Elevations

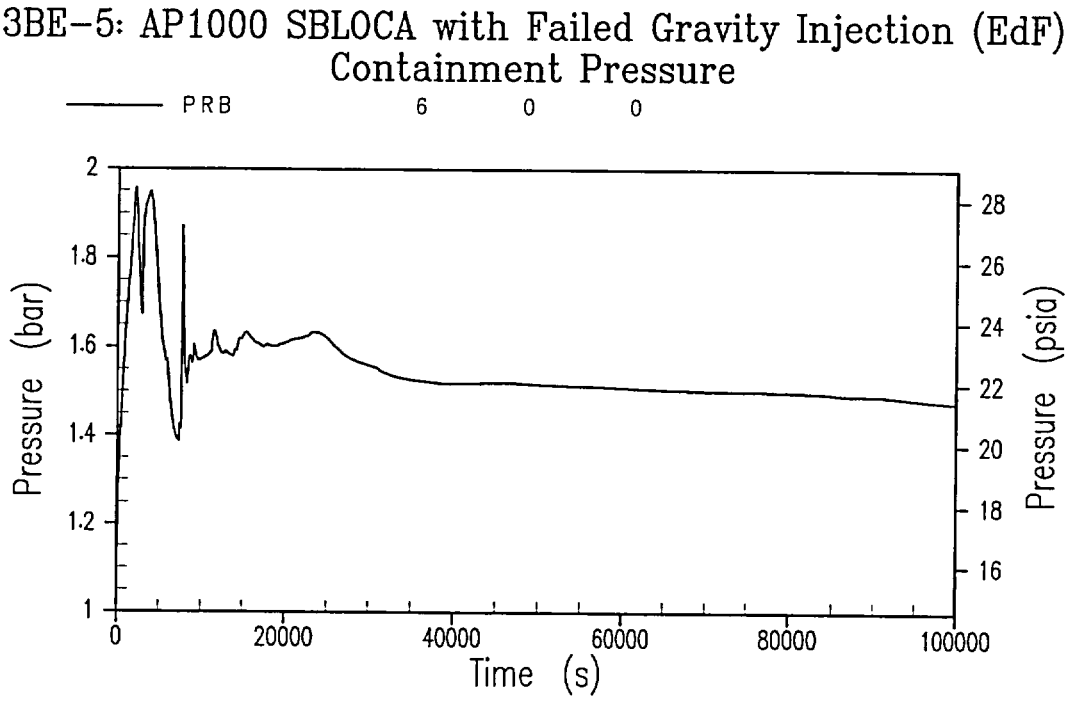

Figure 34-60

Case 3BE-5: Containment Pressure

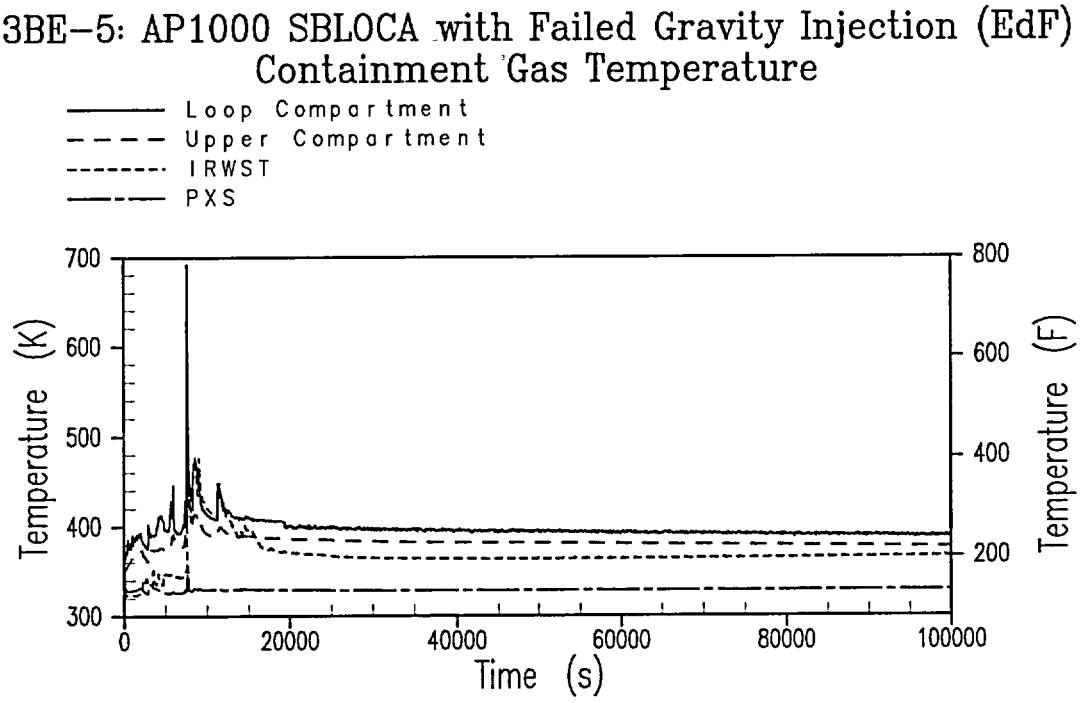

Figure 34-61

Case 3BE-5: Containment Gas Temperature

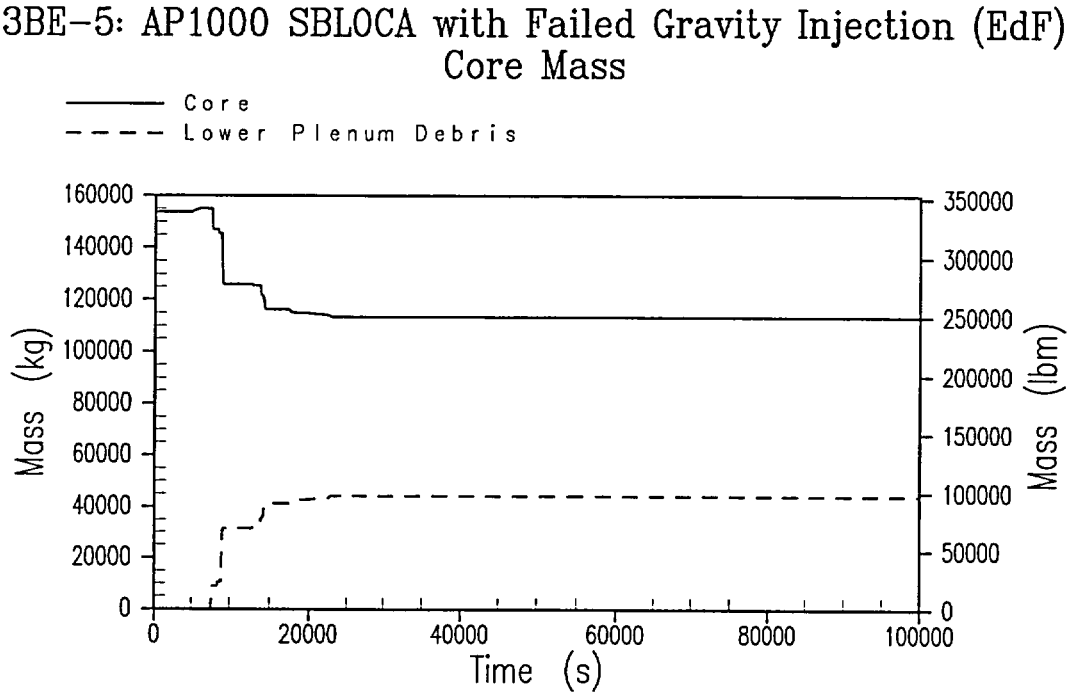

Figure 34-62

Case 3BE-5: Core Mass

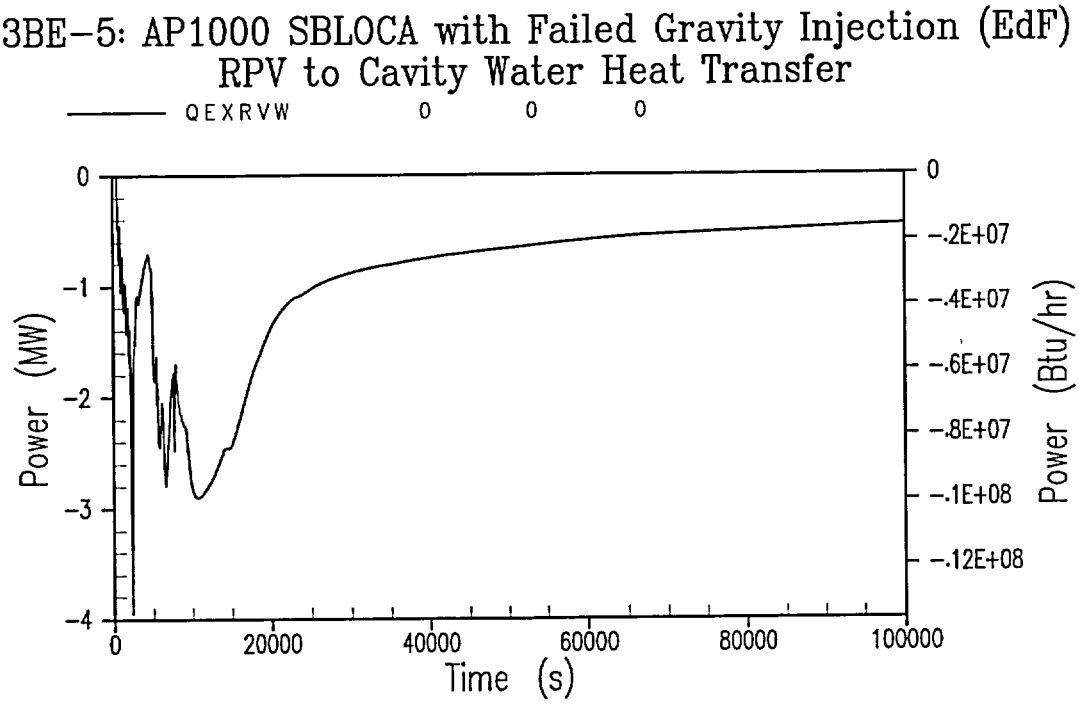

Figure 34-63

Case 3BE-5: Reactor Pressure Vessel to Cavity Water Heat Transfer

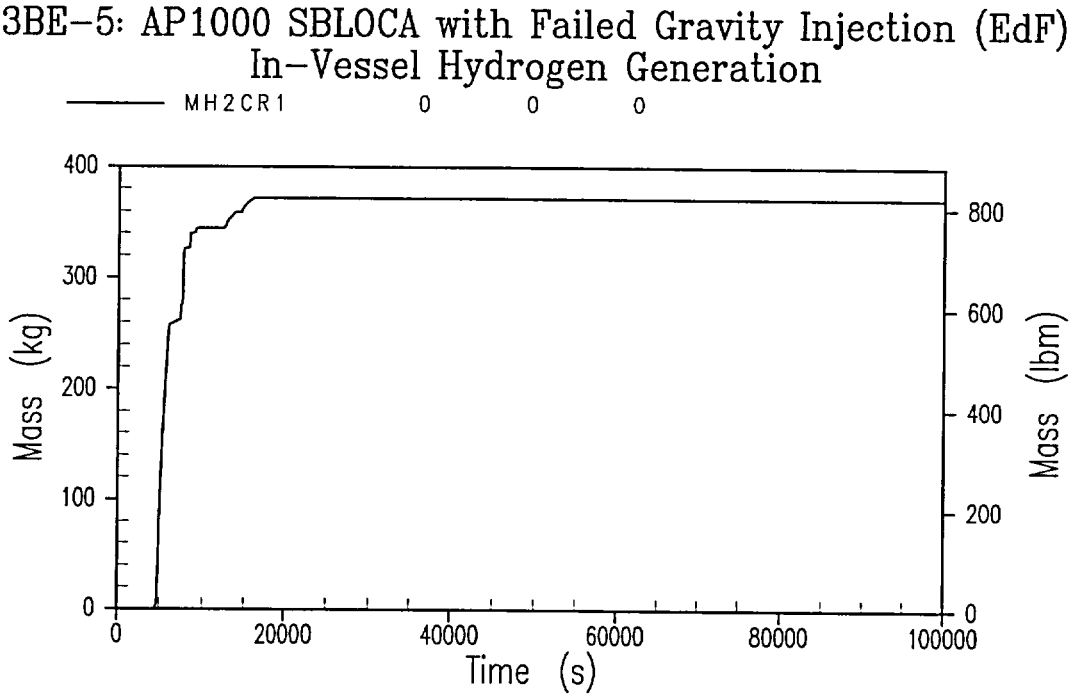

Figure 34-64

Case 3BE-5: In-Vessel Hydrogen Generation

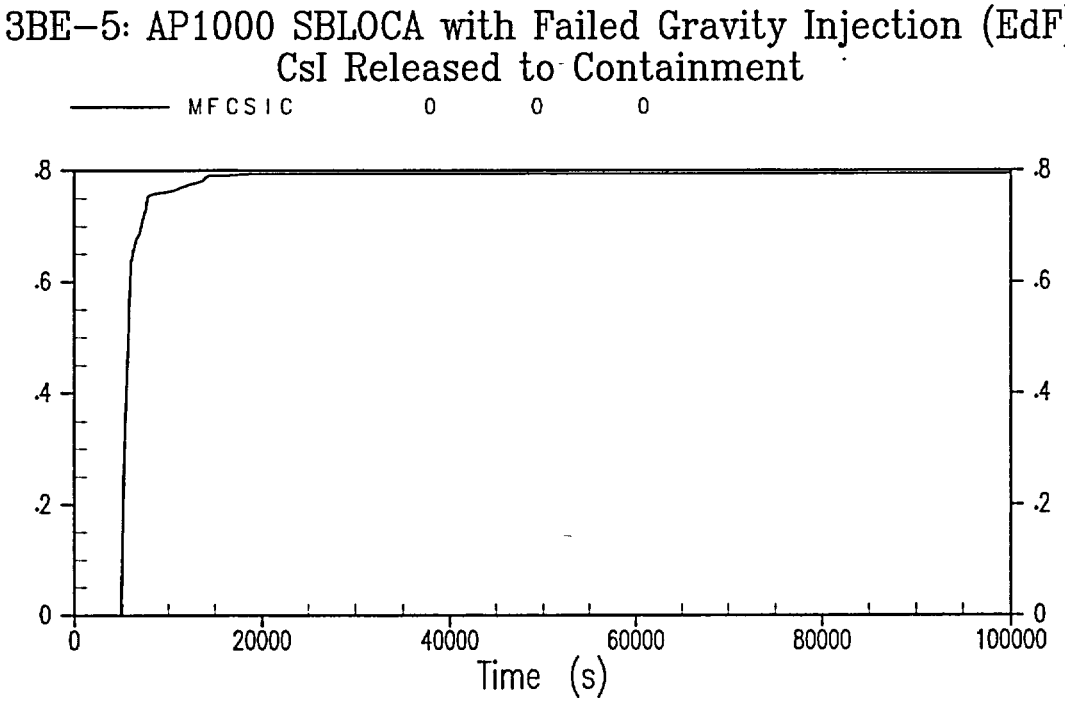

Figure 34-65

Case 3BE-5: Mass Fraction of CsI Released to Containment

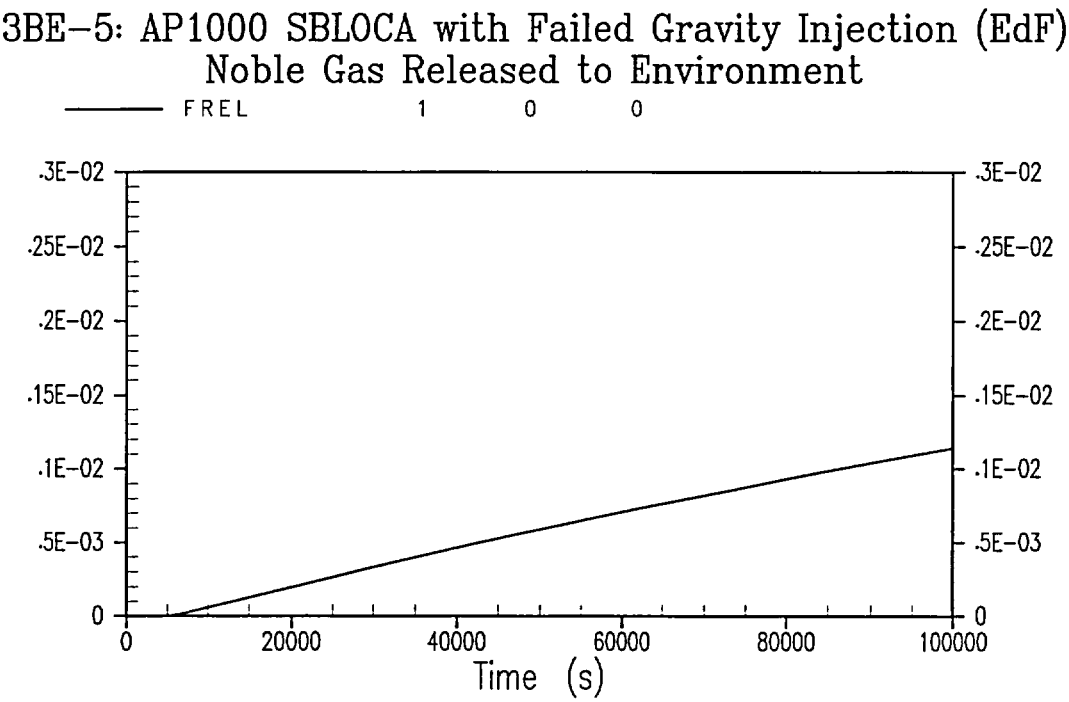

Figure 34-66

Case 3BE-5: Mass Fraction of Noble Gases Released to Environment

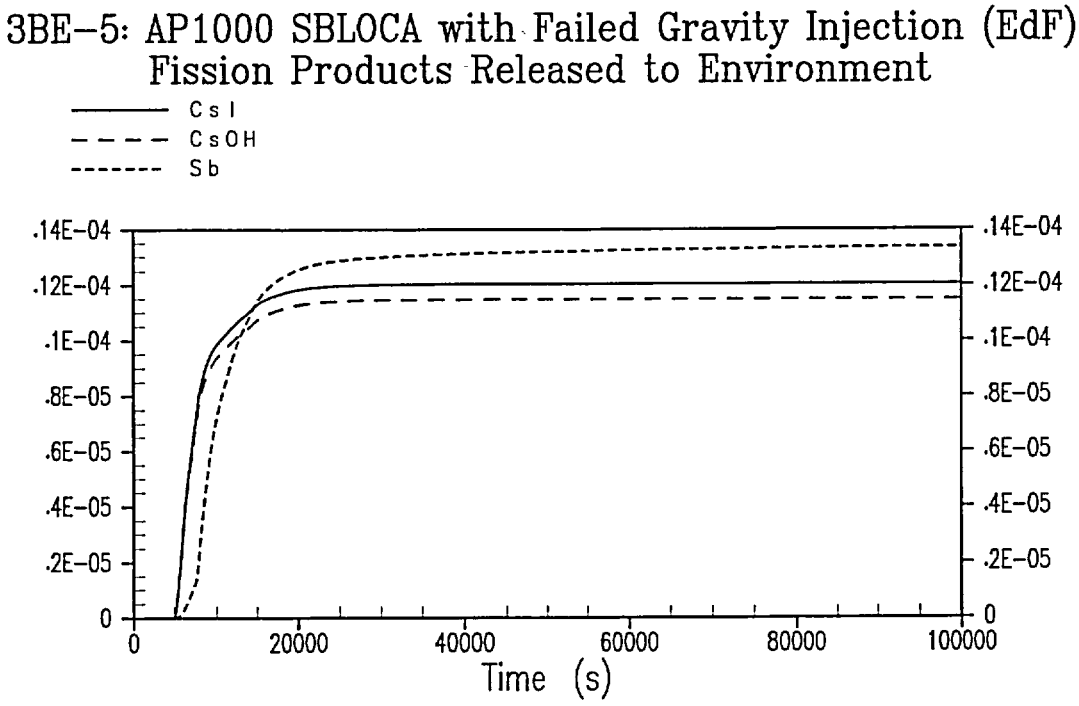

Figure 34-67

Case 3BE-5: Mass Fraction of Fission Products Released to Environment

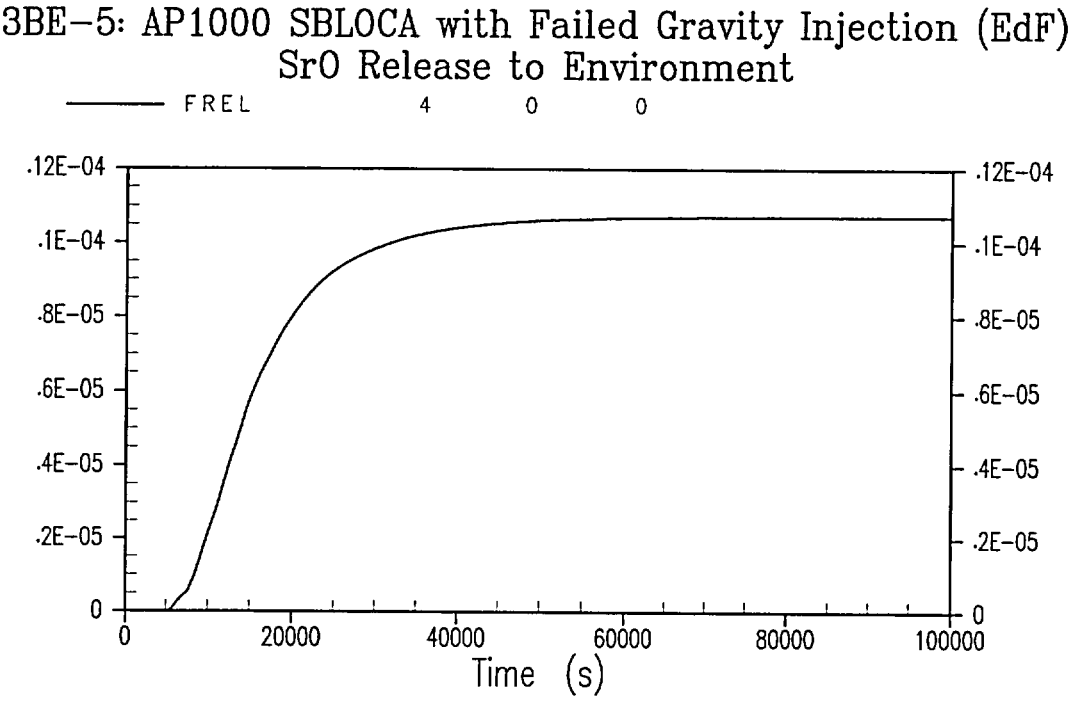

Figure 34-68

Case 3BE-5: Mass Fraction of SrO Released to Environment

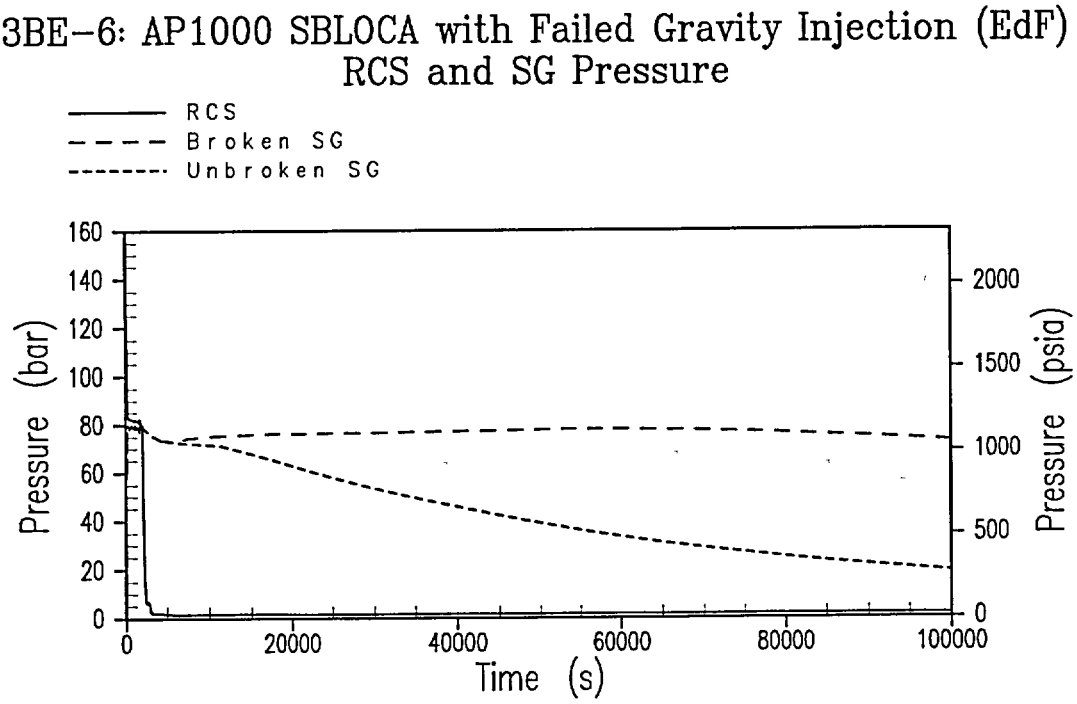

Figure 34-69

Case 3BE-6: RCS and Steam Generator Pressure

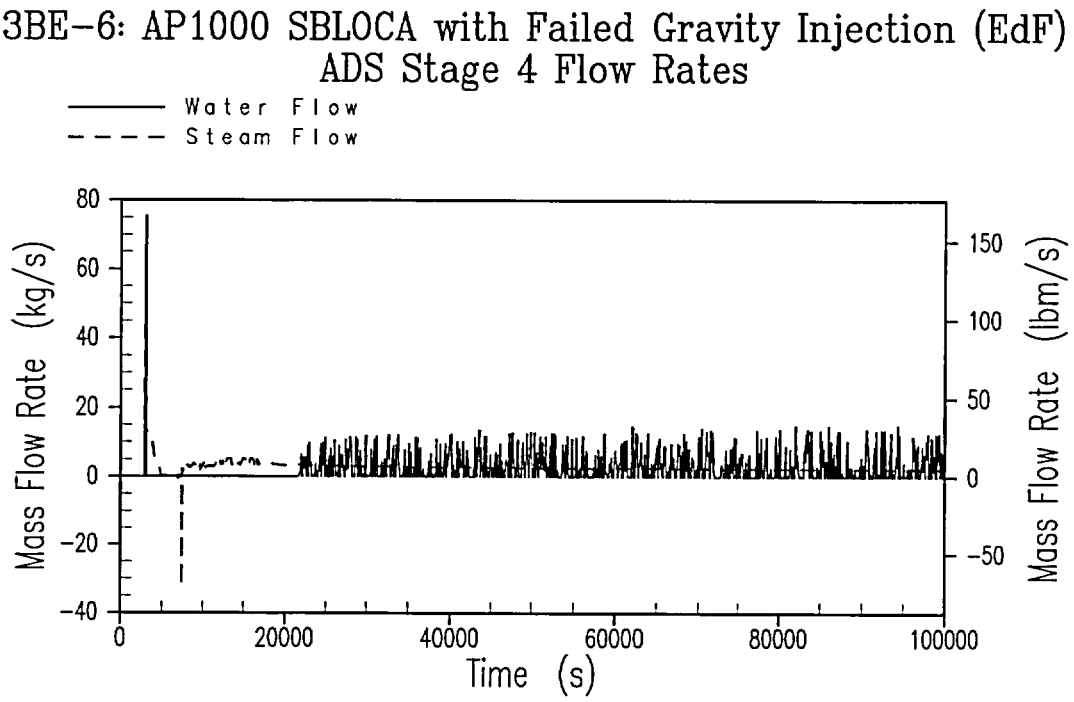

Figure 34-70

Case 3BE-6: ADS Stage 4 Flow Rates

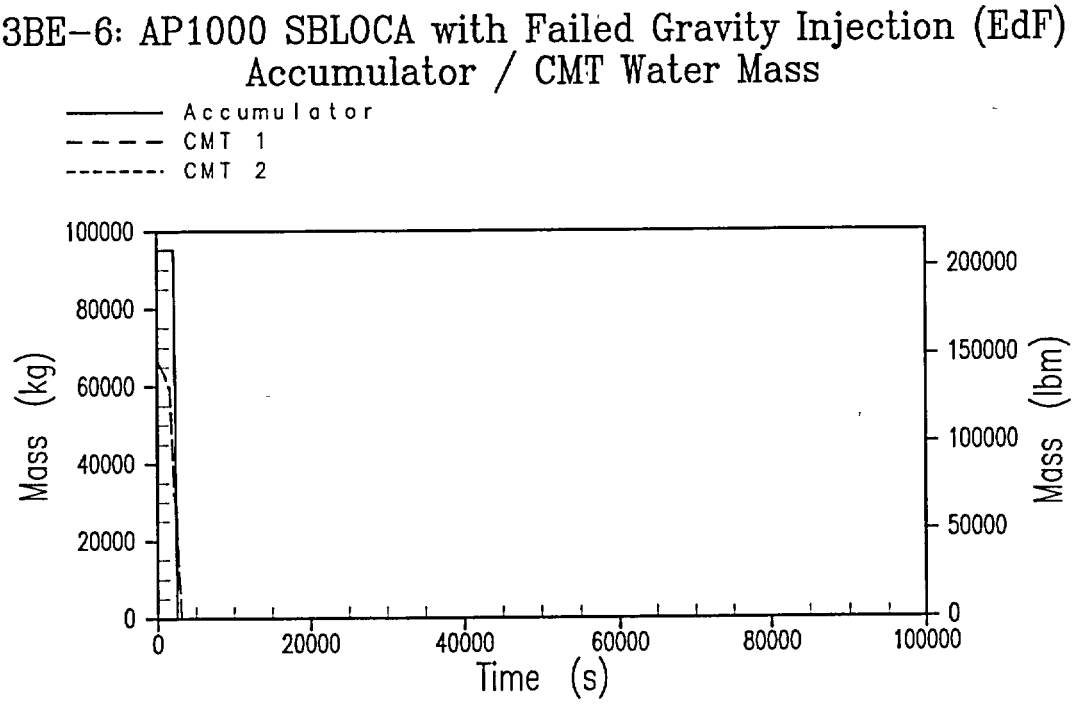

Figure 34-71

Case 3BE-6: Accumulator / CMT Water Mass

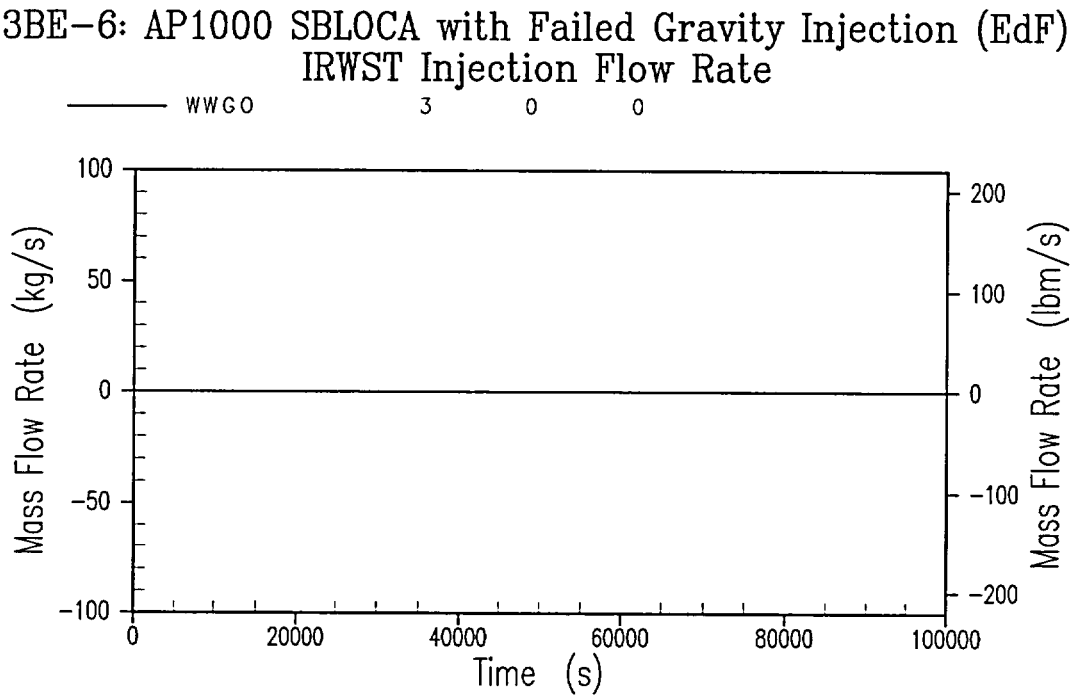

Figure 34-72

Case 3BE-6: IRWST Injection Flow Rate

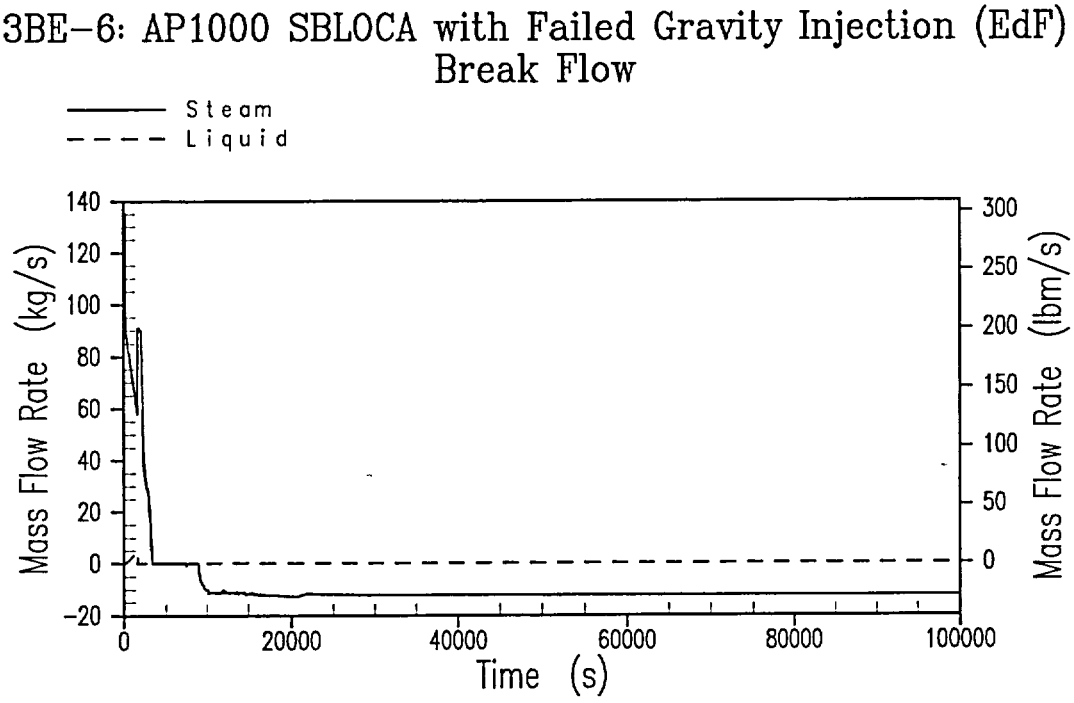

Figure 34-73

Case 3BE-6: Break Flow Rate

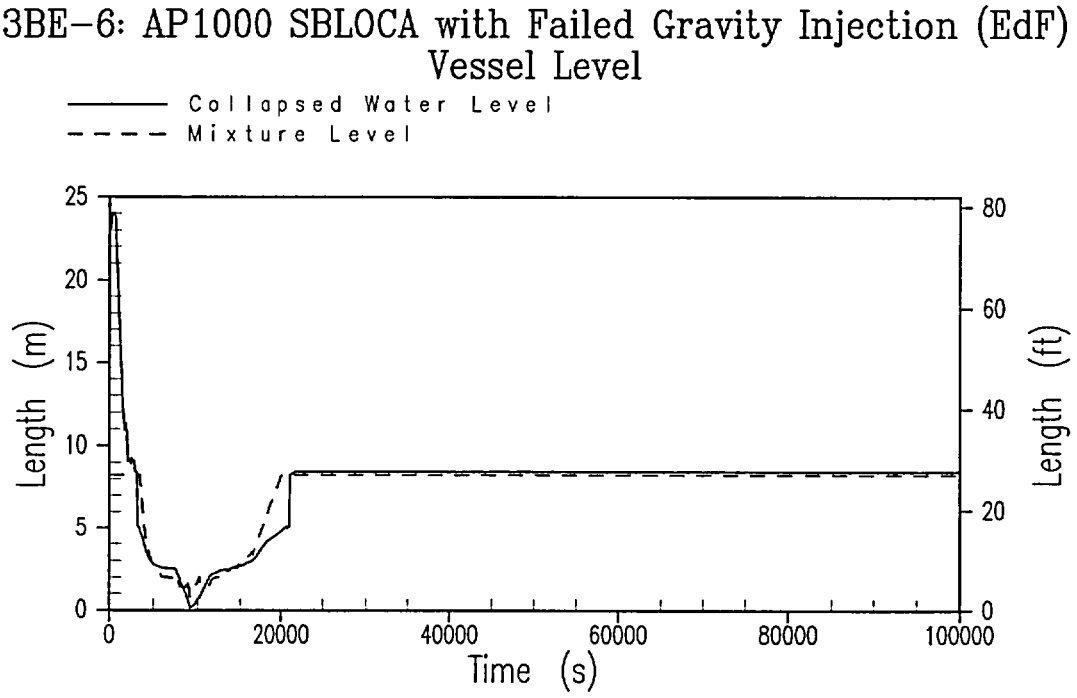

Figure 34-74

Case 3BE-6: Reactor Vessel Water Level

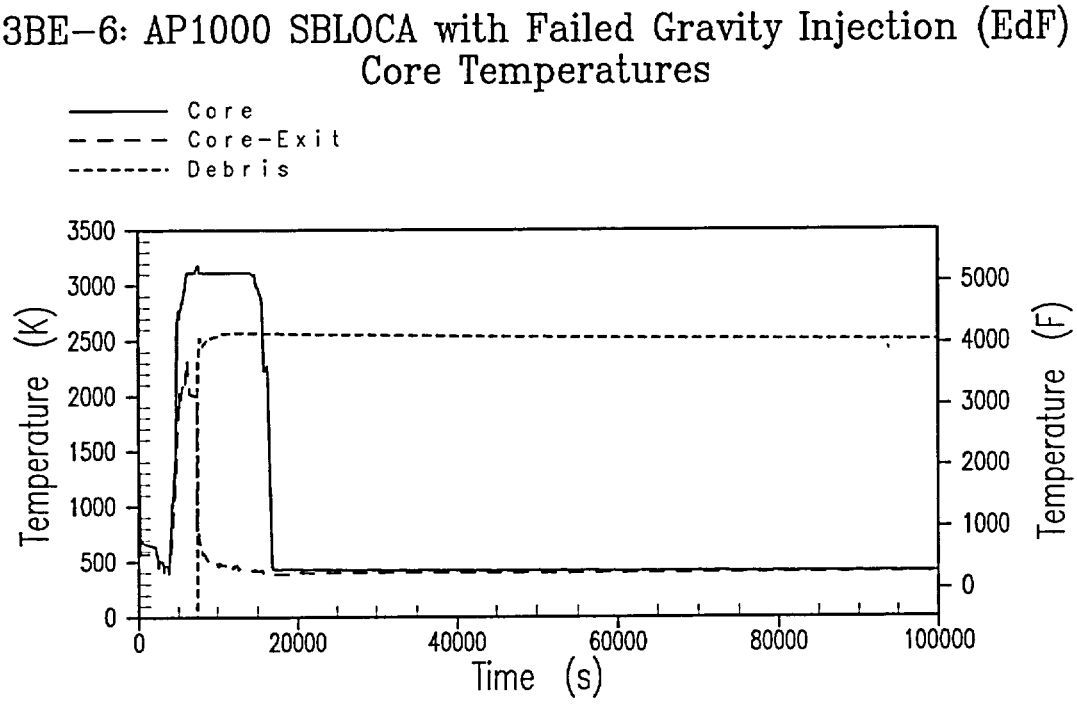

Figure 34-75

Case 3BE-6: Core Temperatures

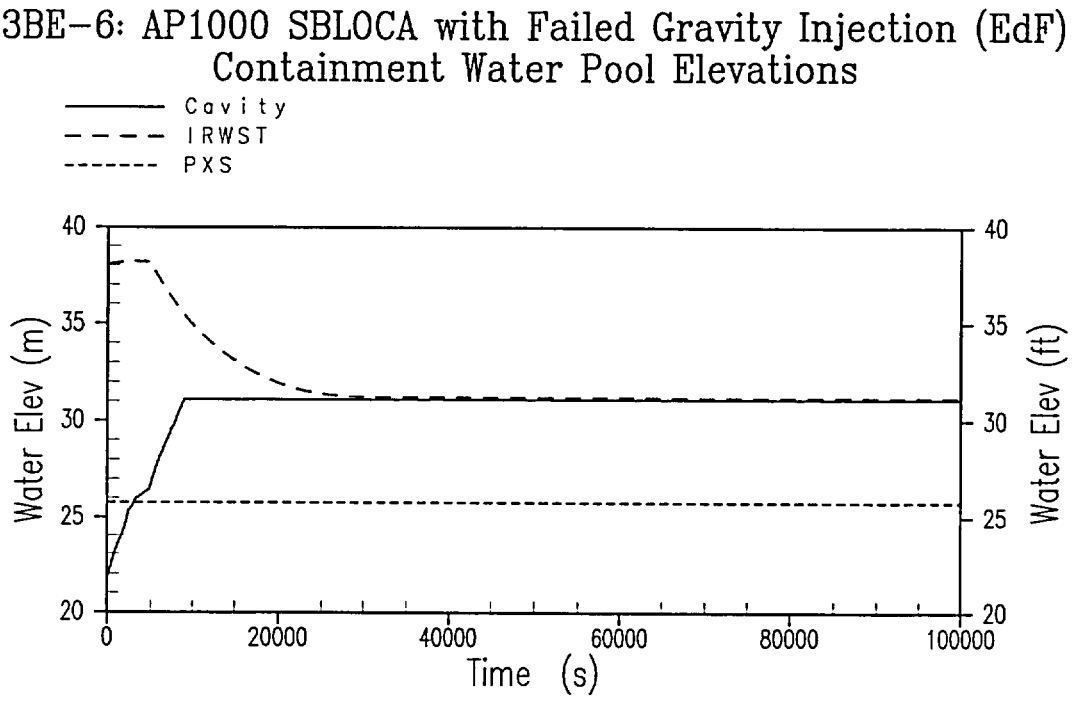

Figure 34-76

Case 3BE-6: Containment Water Pool Elevations

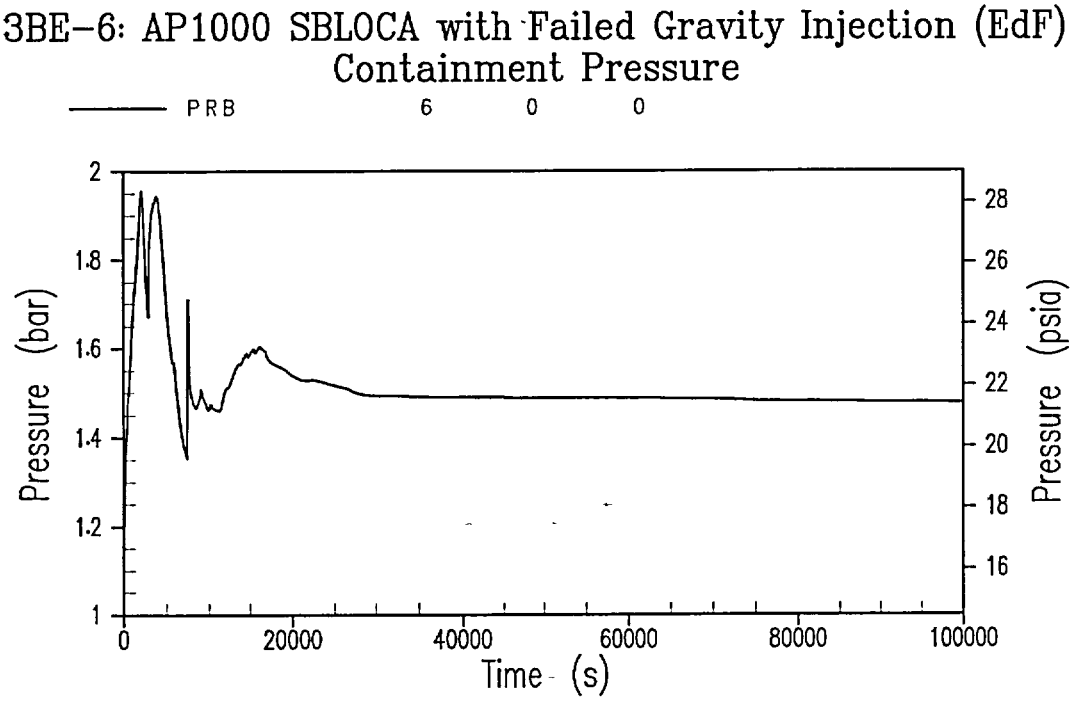

Figure 34-77

Case 3BE-6: Containment Pressure

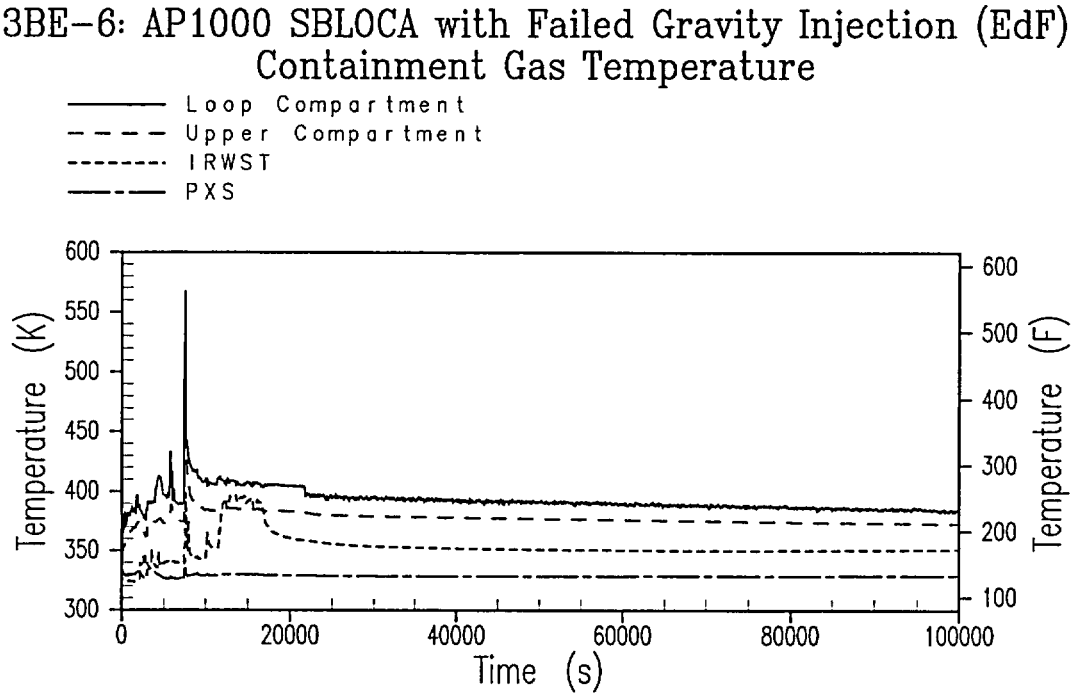

Figure 34-78

Case 3BE-6: Containment Gas Temperature

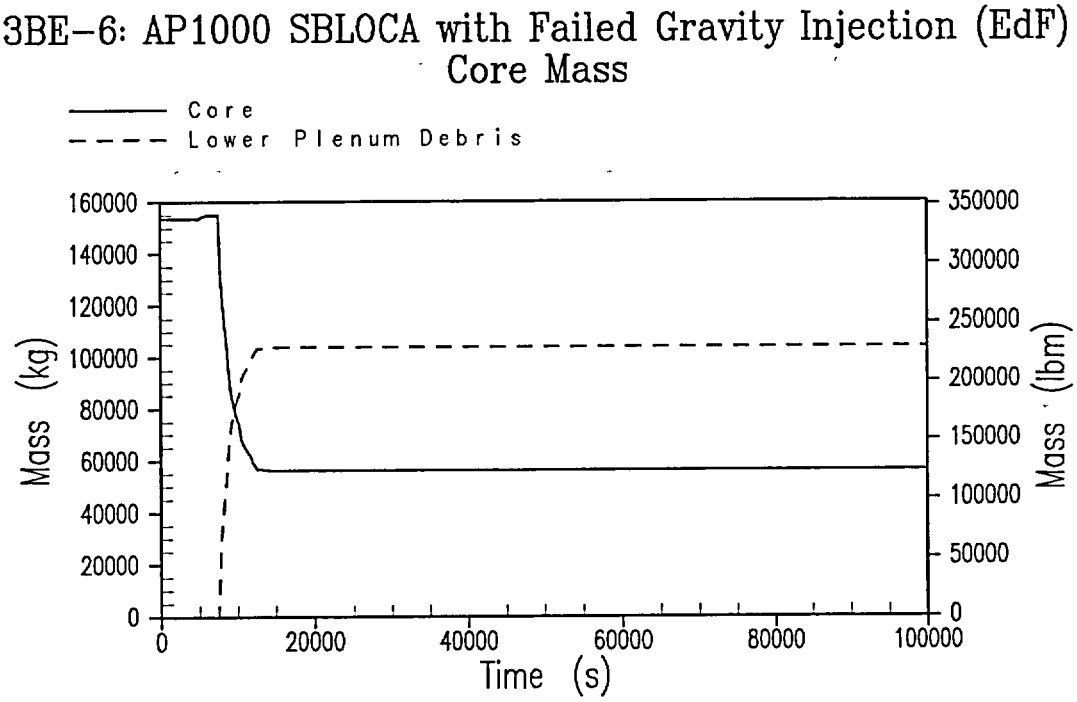

Figure 34-79

Case 3BE-6: Core Mass

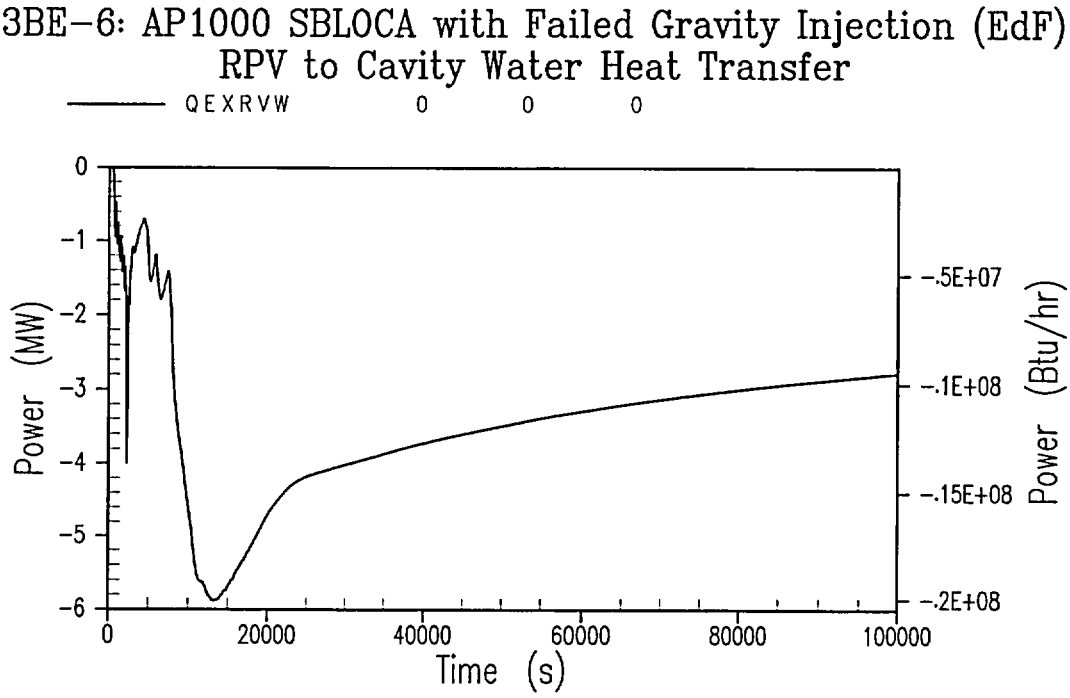

Figure 34-80

Case 3BE-6: Reactor Pressure Vessel to Cavity Water Heat Transfer

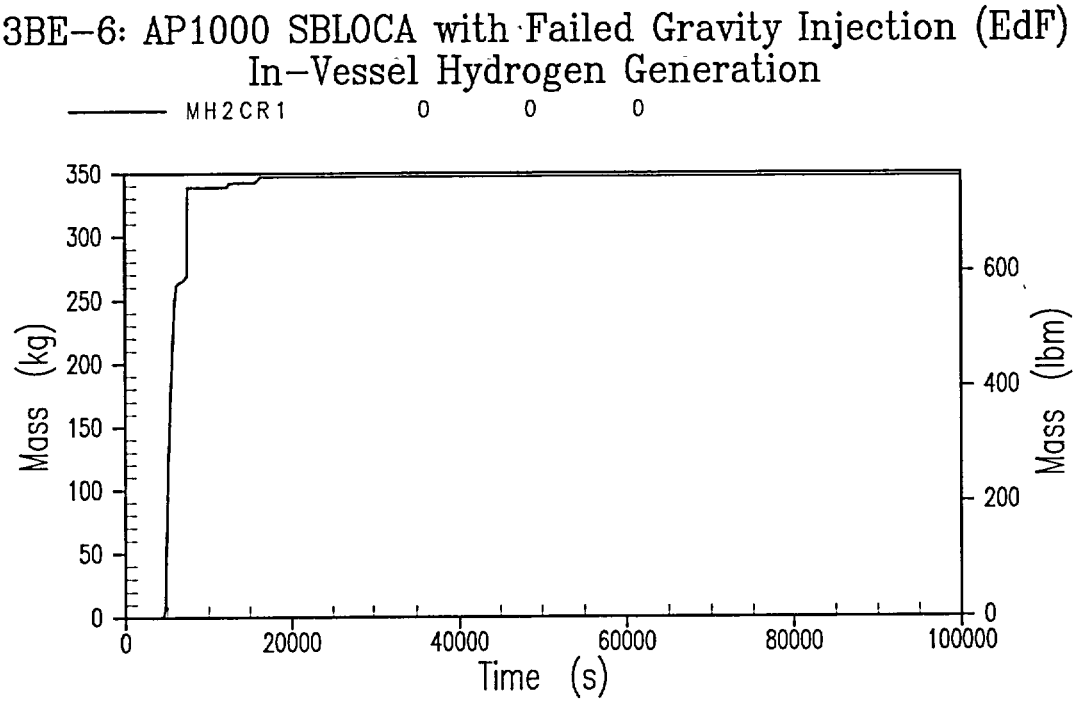

Figure 34-81

Case 3BE-6: In-Vessel Hydrogen Generation

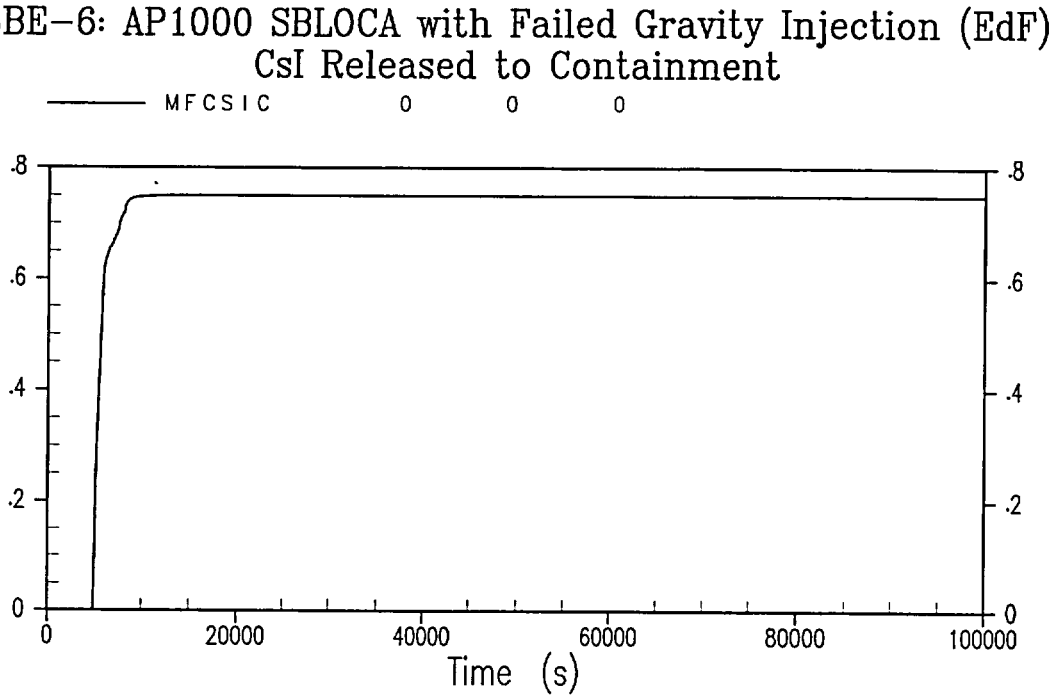

Figure 34-82

Case 3BE-6: Mass Fraction of CsI Released to Containment

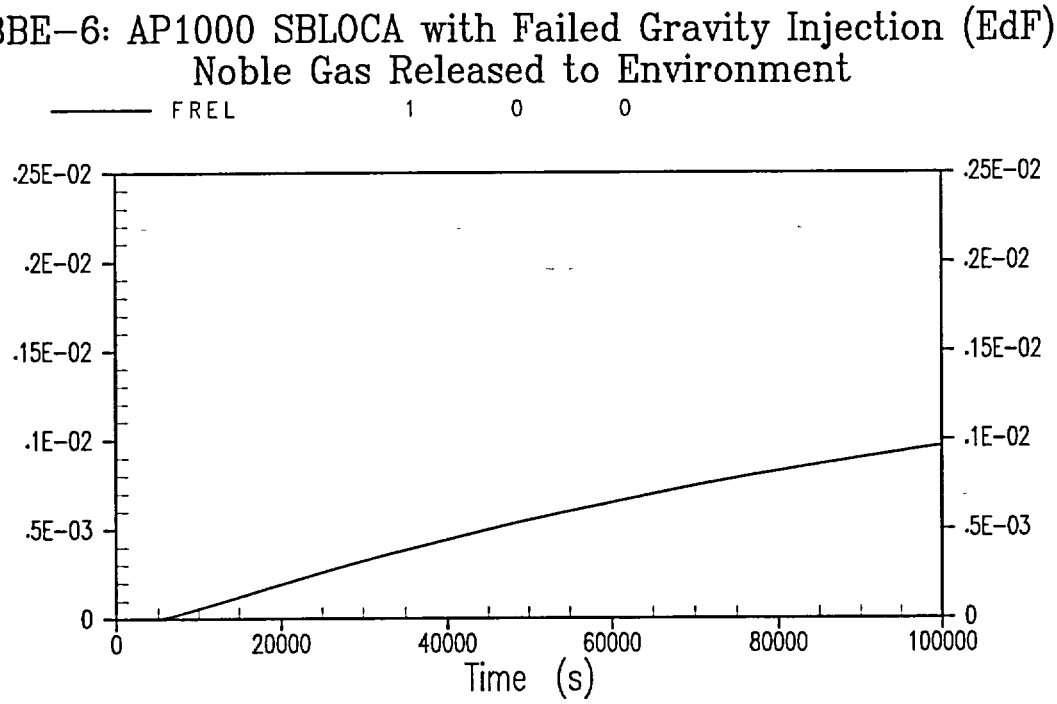

Figure 34-83

Case 3BE-6: Mass Fraction of Noble Gases Released to Environment

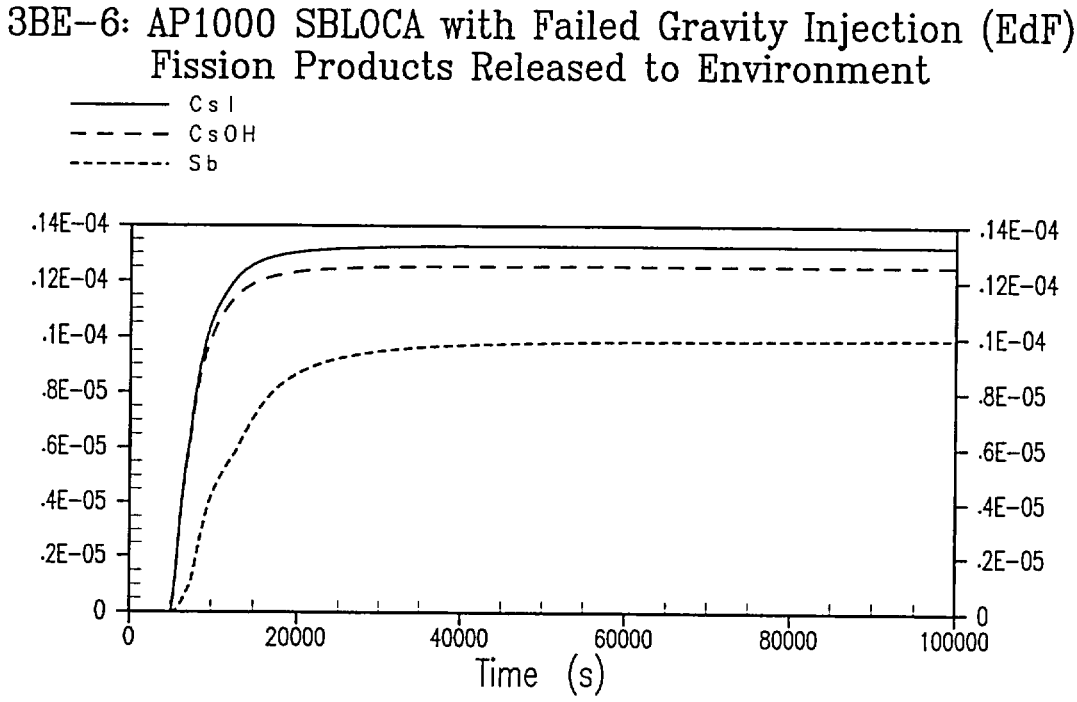

Figure 34-84

Case 3BE-6: Mass Fraction of Fission Products Released to Environment

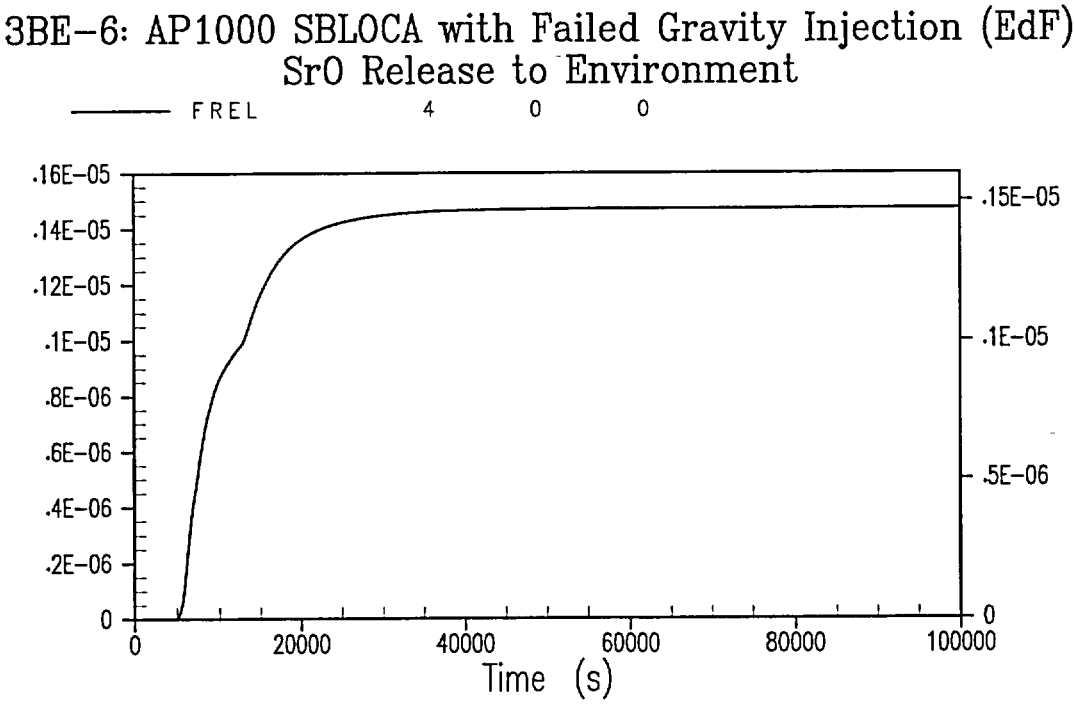

Figure 34-85

Case 3BE-6: Mass Fraction of SrO Released to Environment

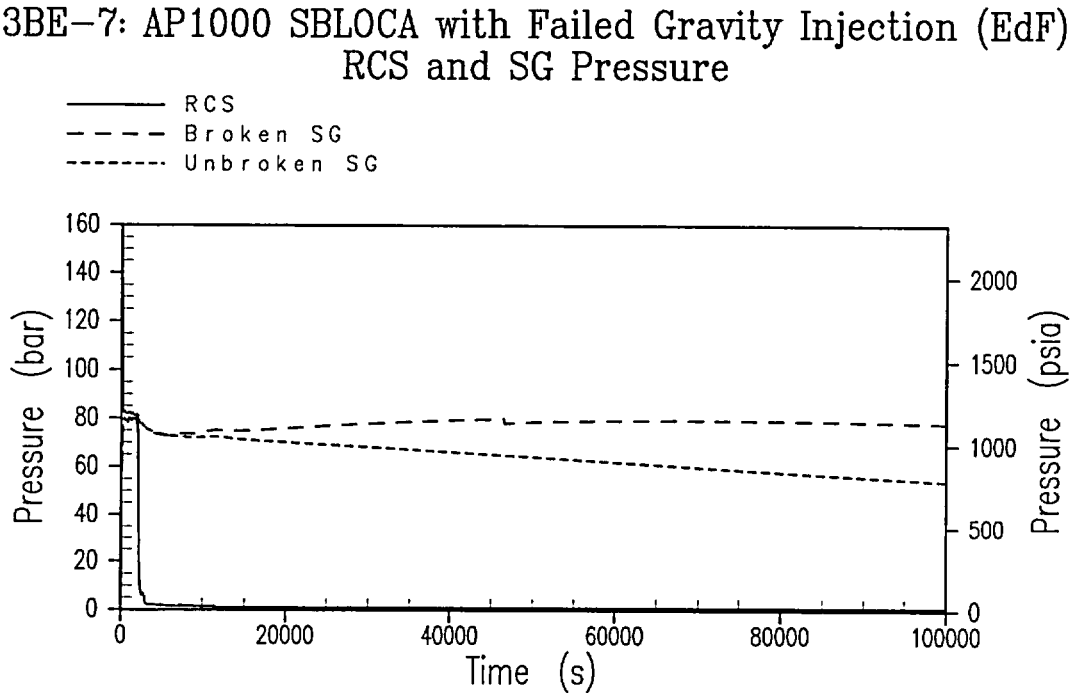

Figure 34-86

Case 3BE-7: RCS and Steam Generator Pressure

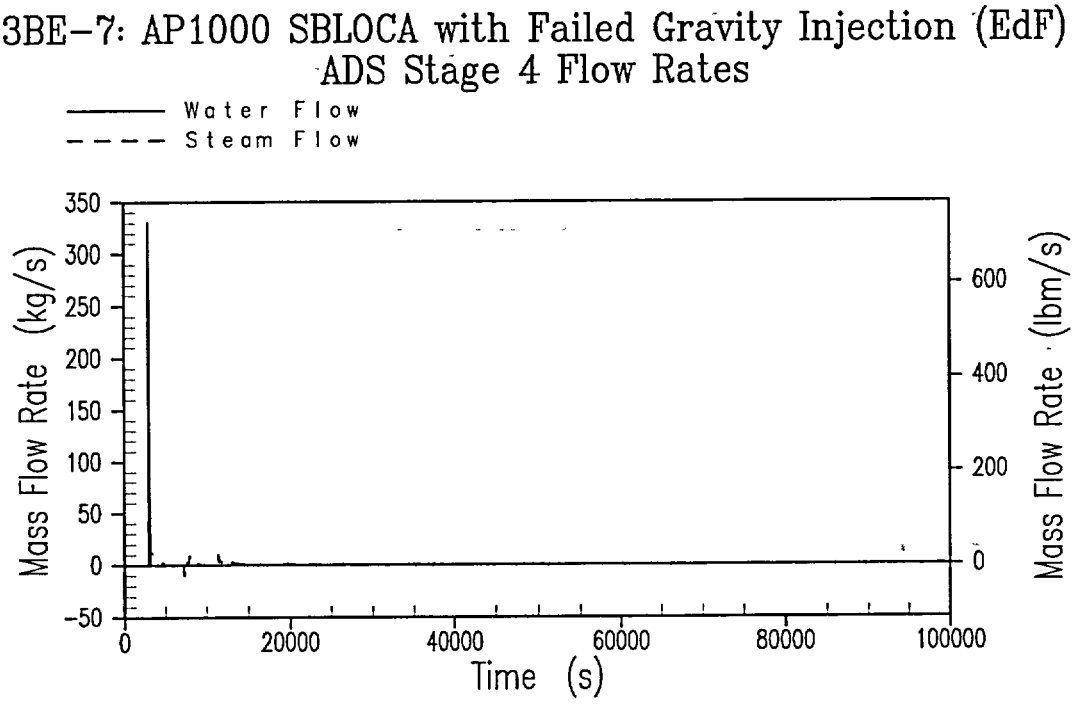

Figure 34-87

Case 3BE-7: ADS Stage 4 Flow Rates

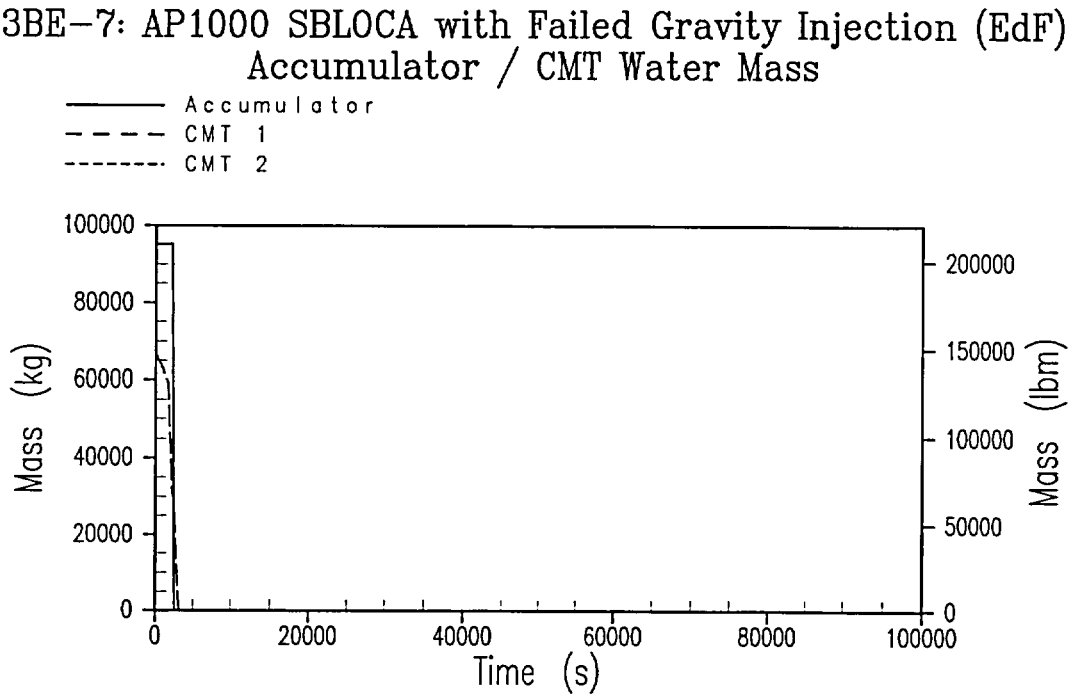

Figure 34-88

Case 3BE-7: Accumulator / CMT Water Mass

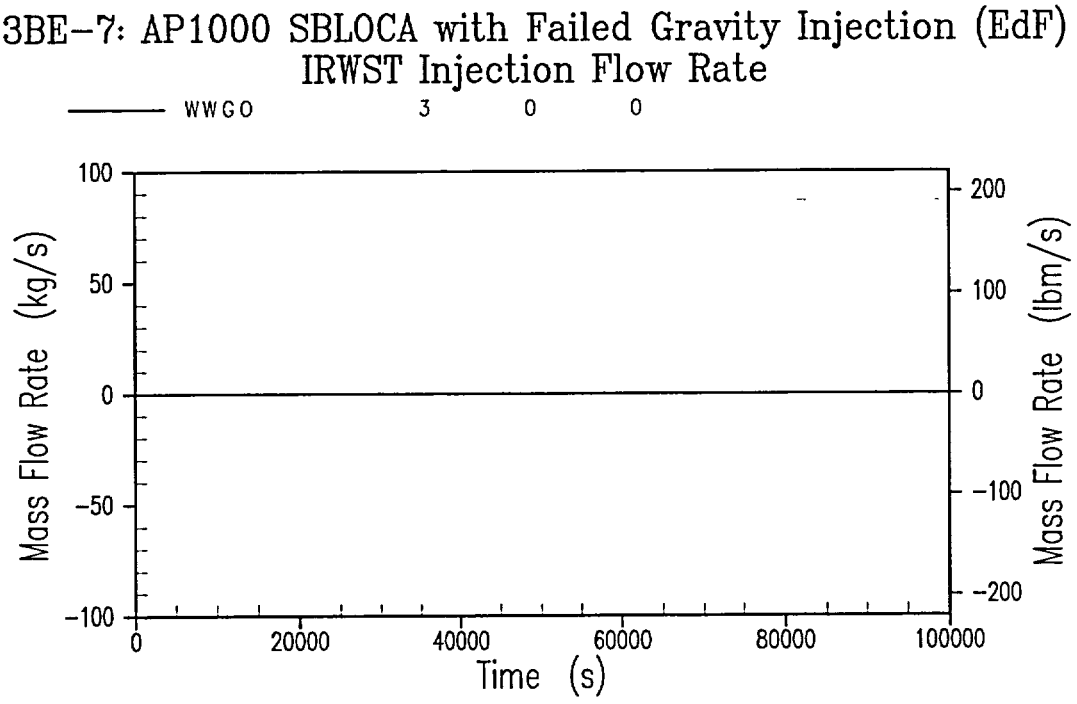

Figure 34-89

Case 3BE-7: IRWST Injection Flow Rate

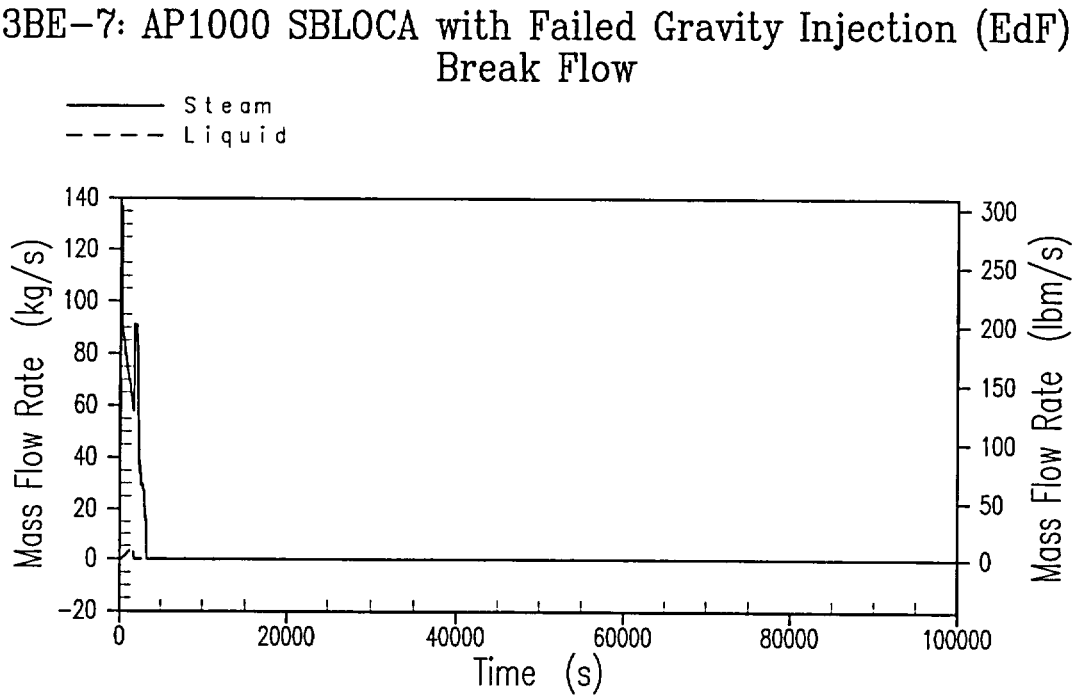

Figure 34-90

Case 3BE-7: Break Flow Rate

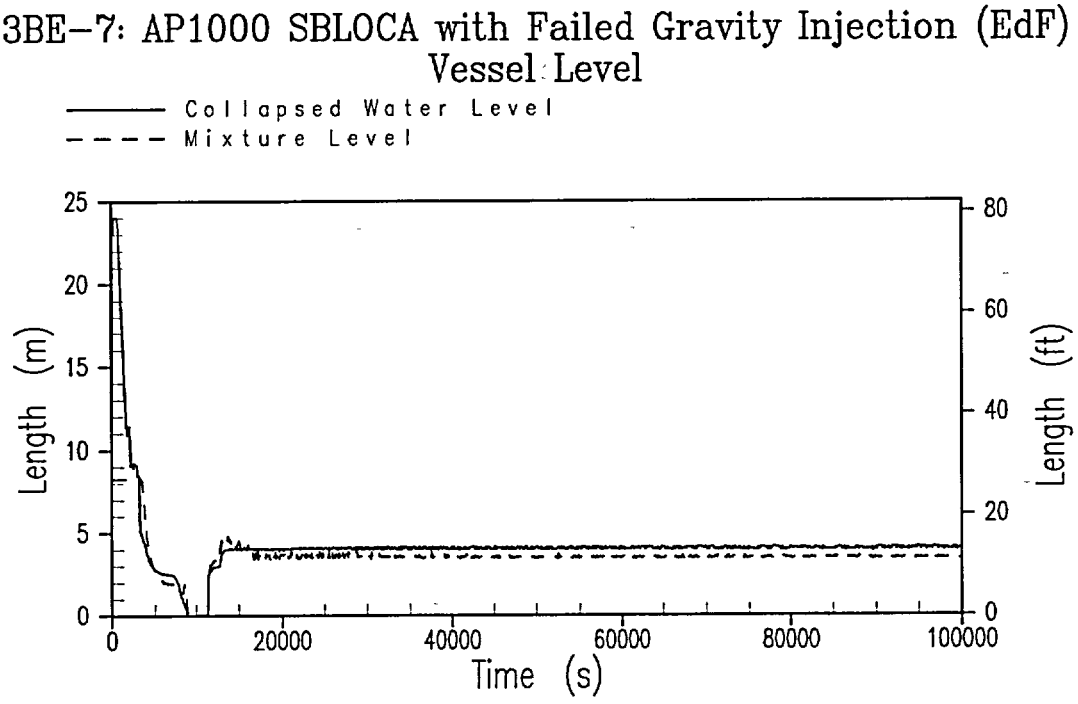

Figure 34-91

Case 3BE-7: Reactor Vessel Water Level

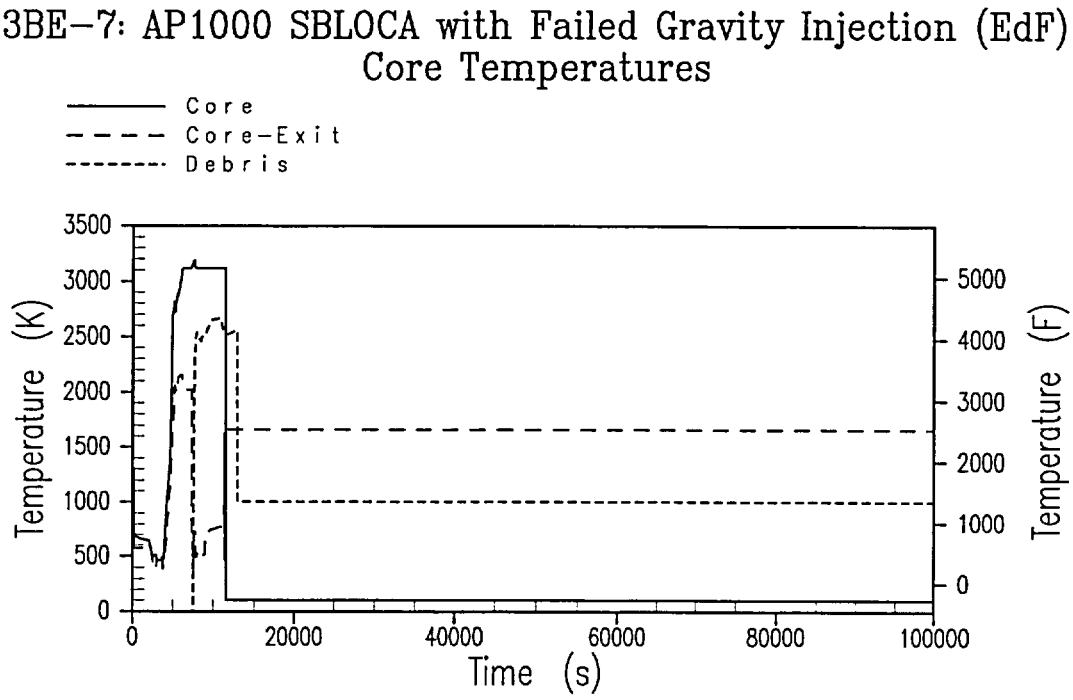

Figure 34-92

Case 3BE-7: Core Temperatures

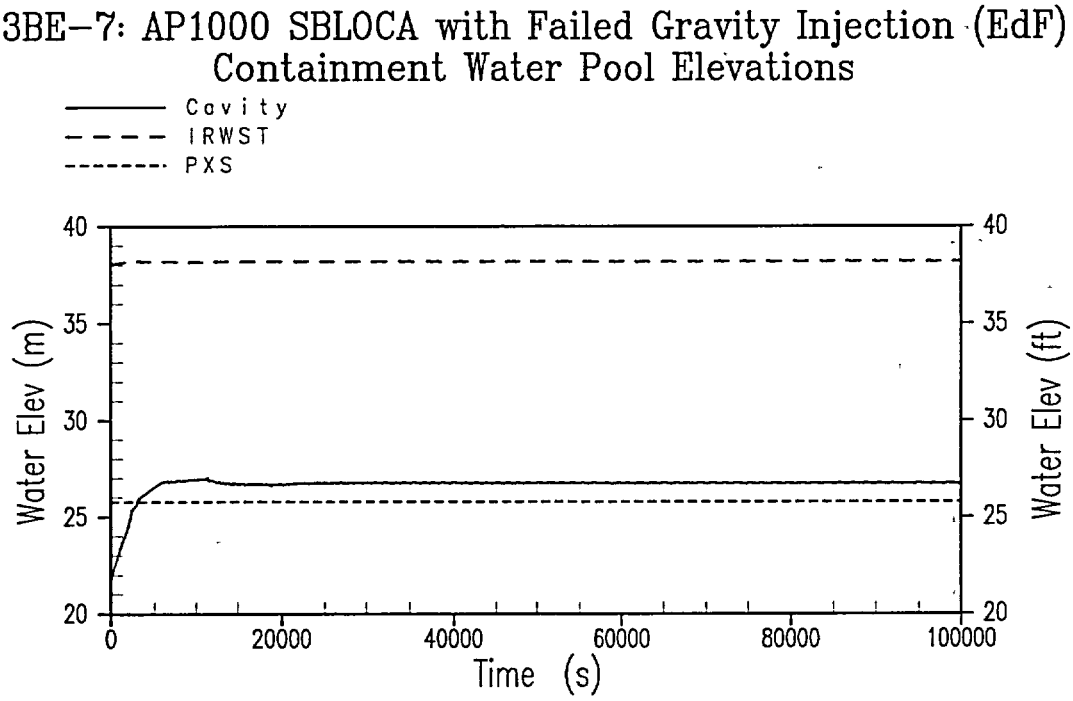

Figure 34-93

Case 3BE-7: Containment Water Pool Elevations

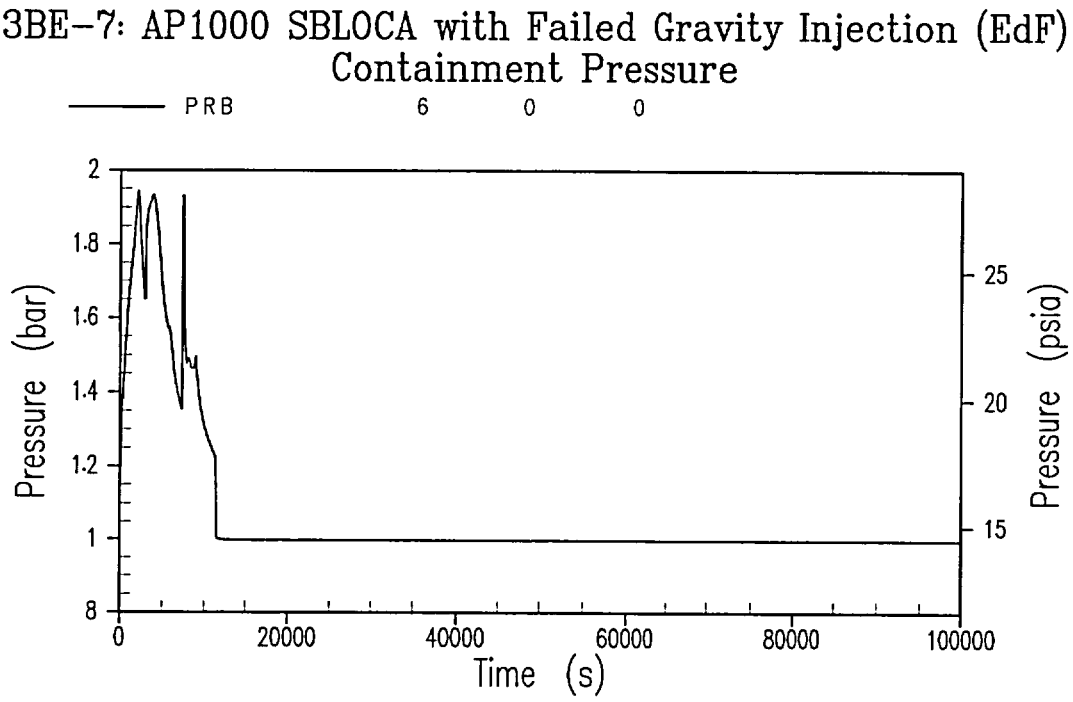

Figure 34-94

Case 3BE-7: Containment Pressure

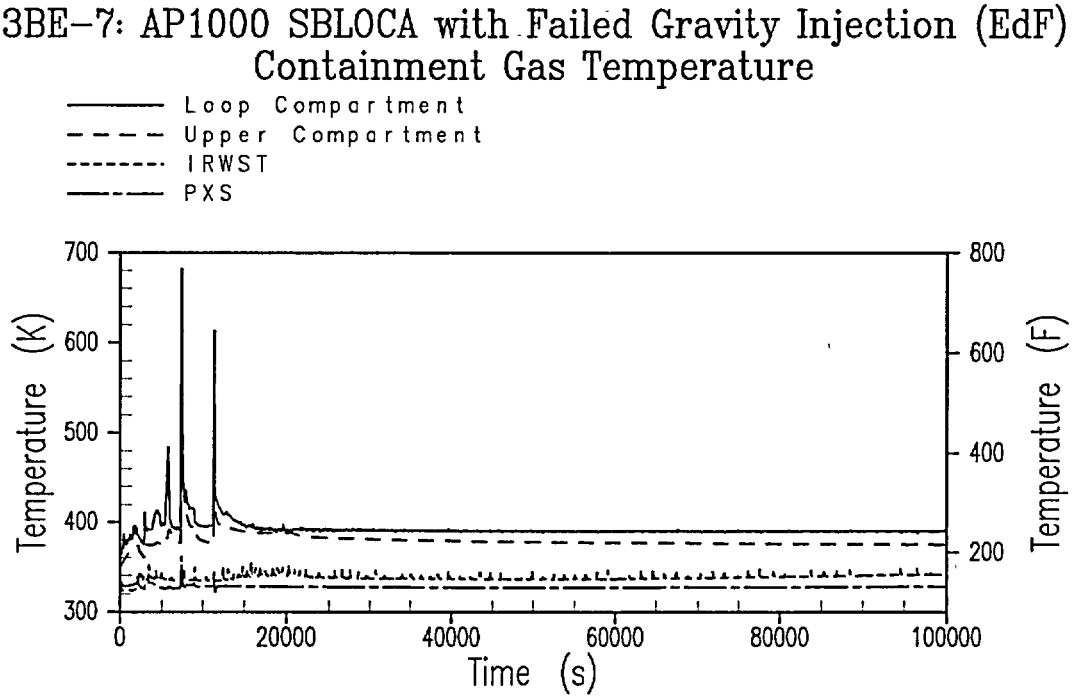

Figure 34-95

Case 3BE-7: Containment Gas Temperature

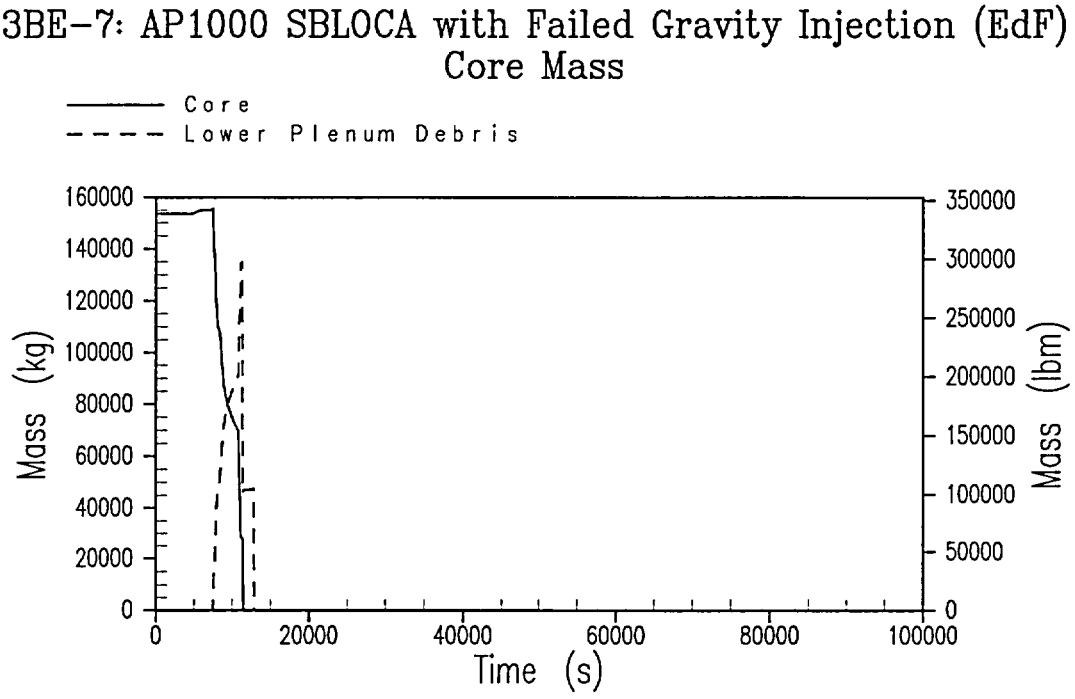

Figure 34-96

Case 3BE-7: Core Mass

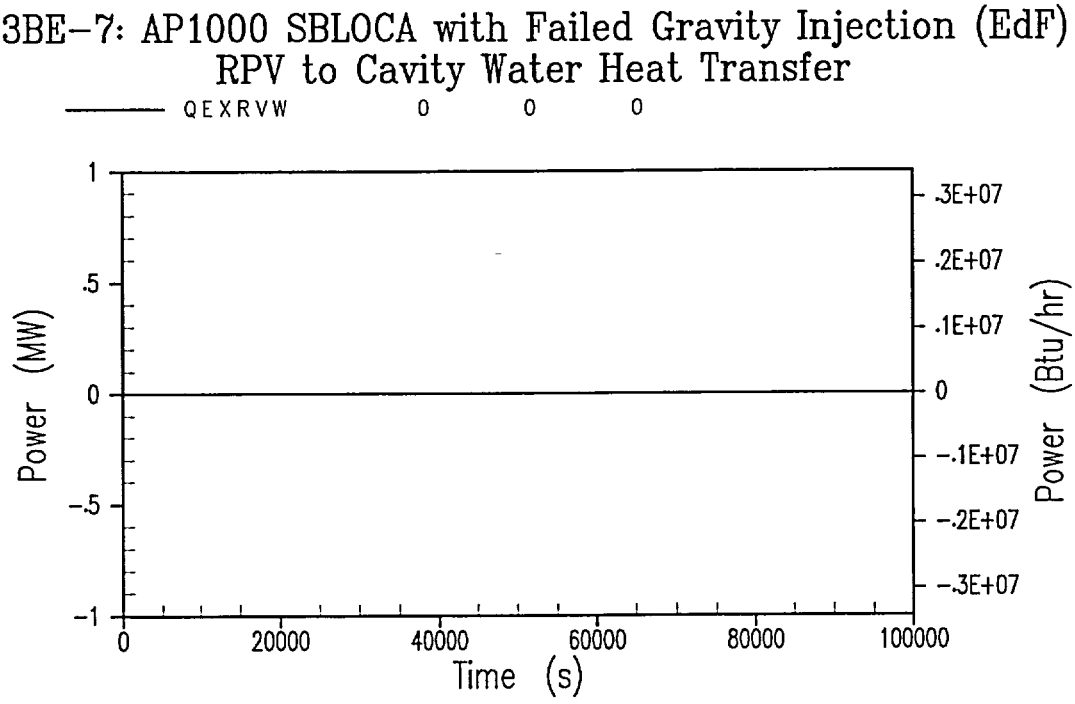

Figure 34-97

Case 3BE-7: Reactor Pressure Vessel to Cavity Water Heat Transfer

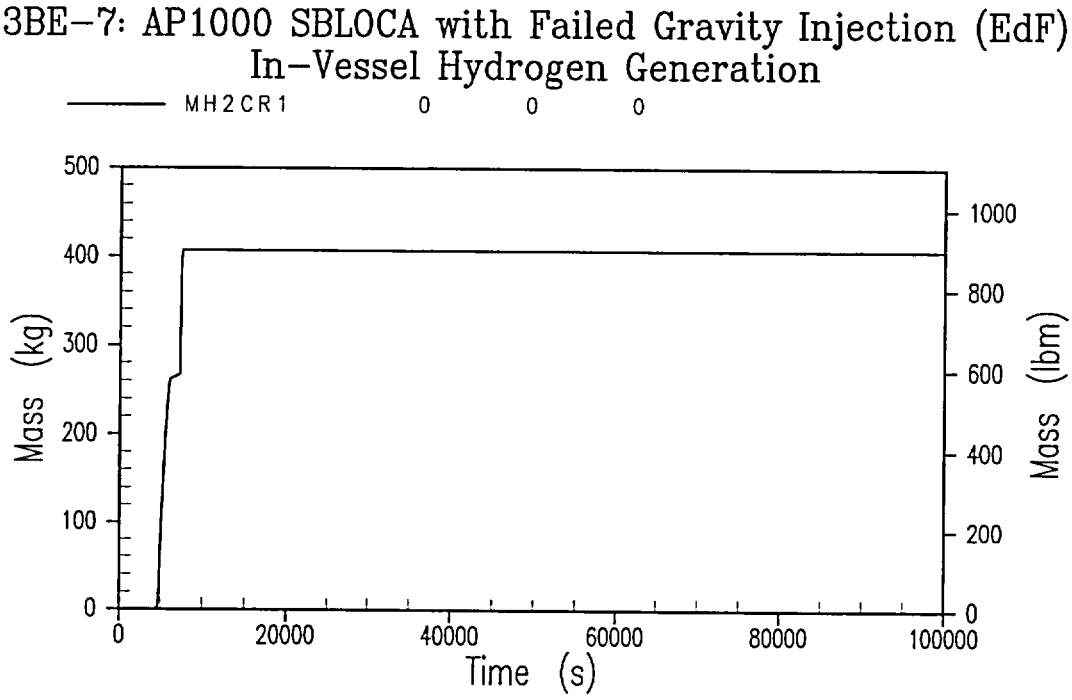

Figure 34-98

Case 3BE-7: In-Vessel Hydrogen Generation

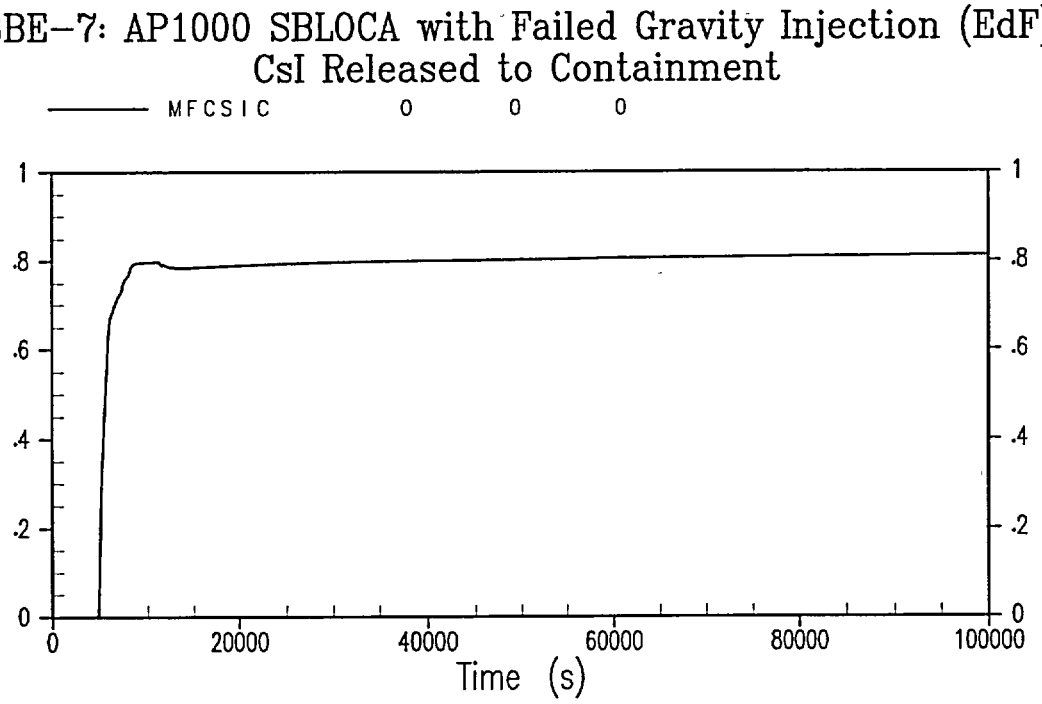

Figure 34-99

Case 3BE-7: Mass Fraction of CsI Released to Containment

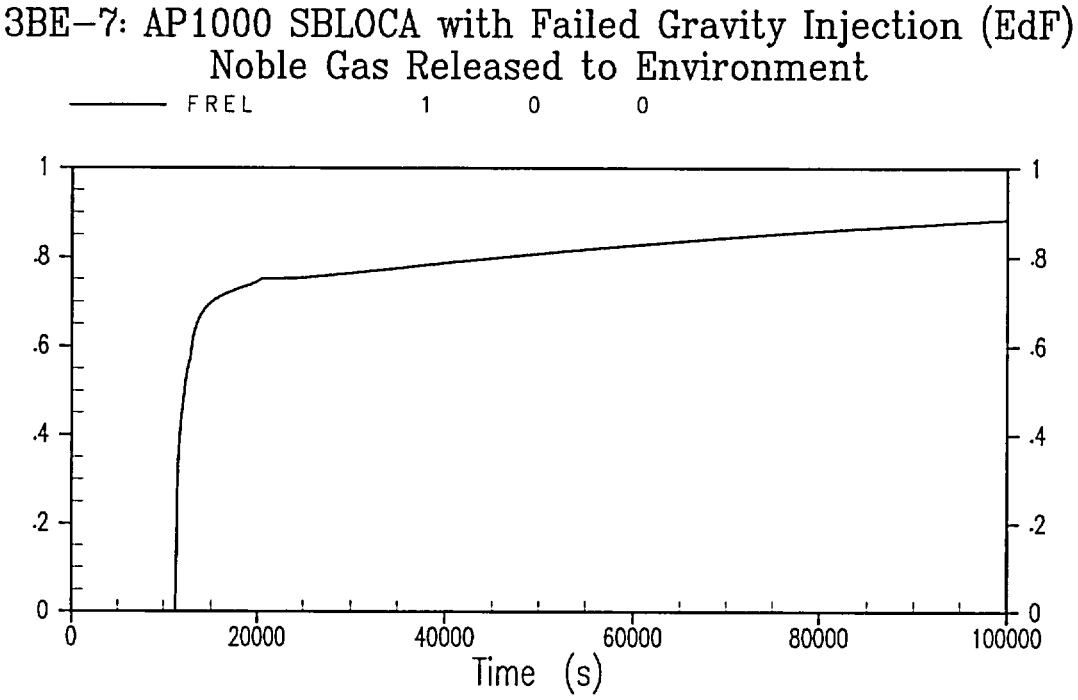

Figure 34-100

Case 3BE-7: Mass Fraction of Noble Gases Released to Environment

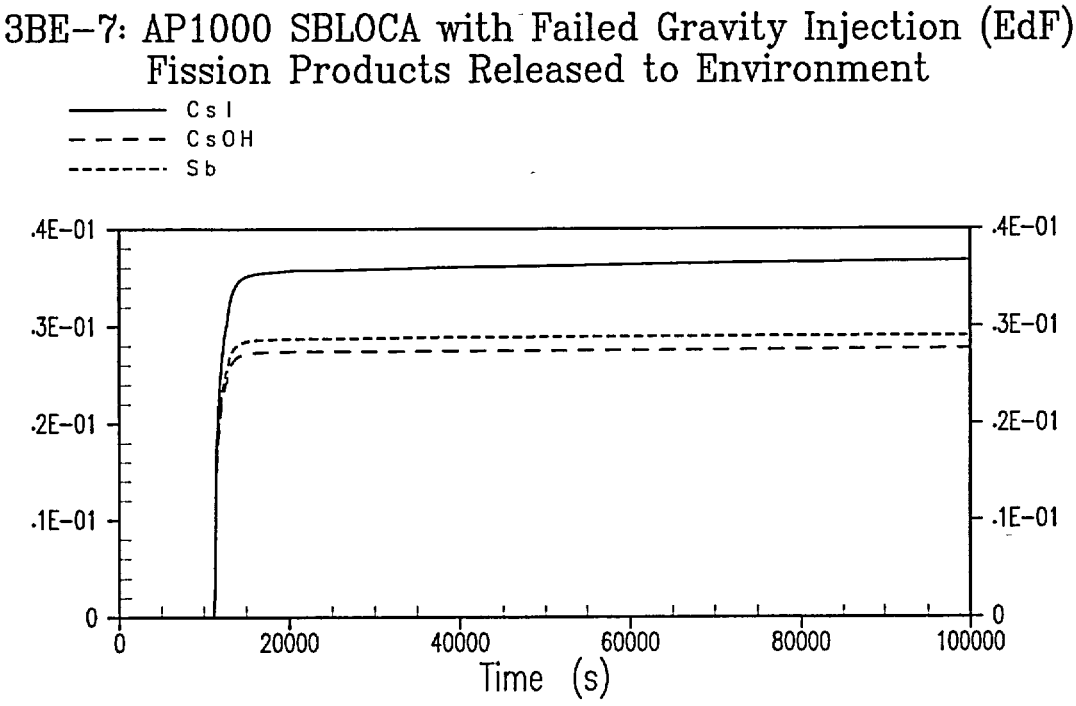

Figure 34-101

Case 3BE-7: Mass Fraction of Fission Products Released to Environment

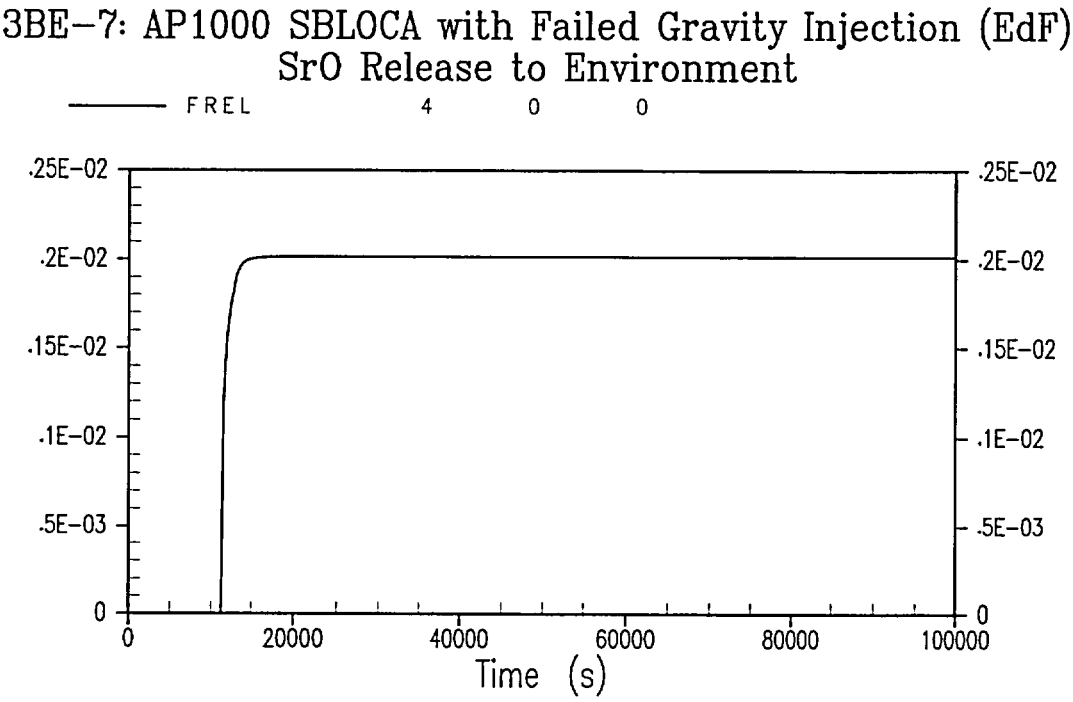

Figure 34-102

Case 3BE-7: Mass Fraction of SrO Released to Environment

3BE–3: AP1000 DVI Line Break, Failed Gravity Inj, No PXS Flooding (EdF)
RCS and SG Pressure

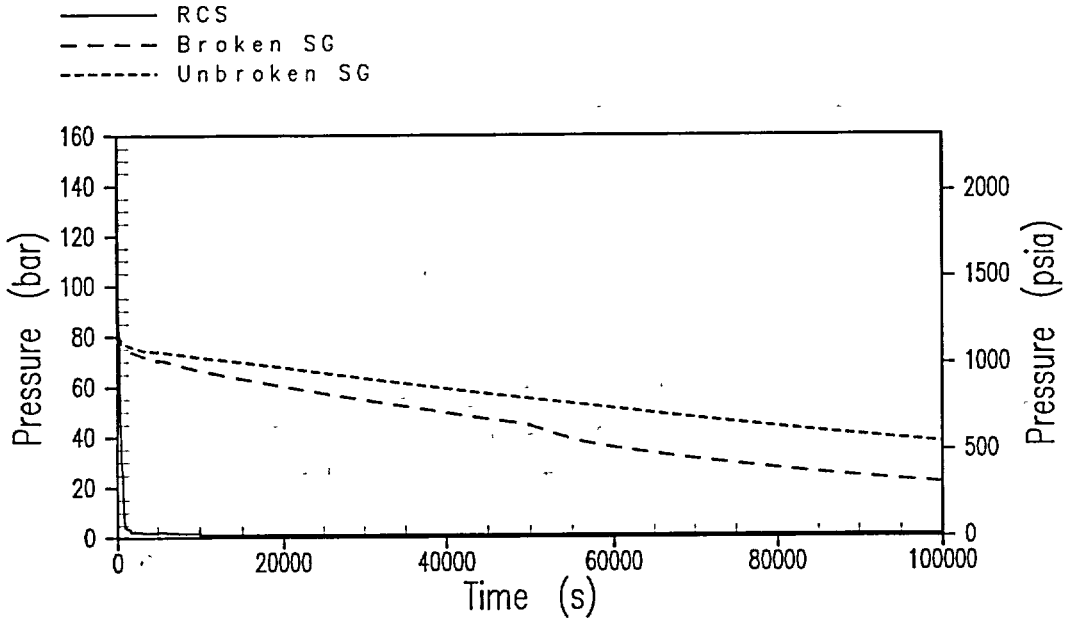

Figure 34-103

Case 3BE-3: RCS and Steam Generator Pressure

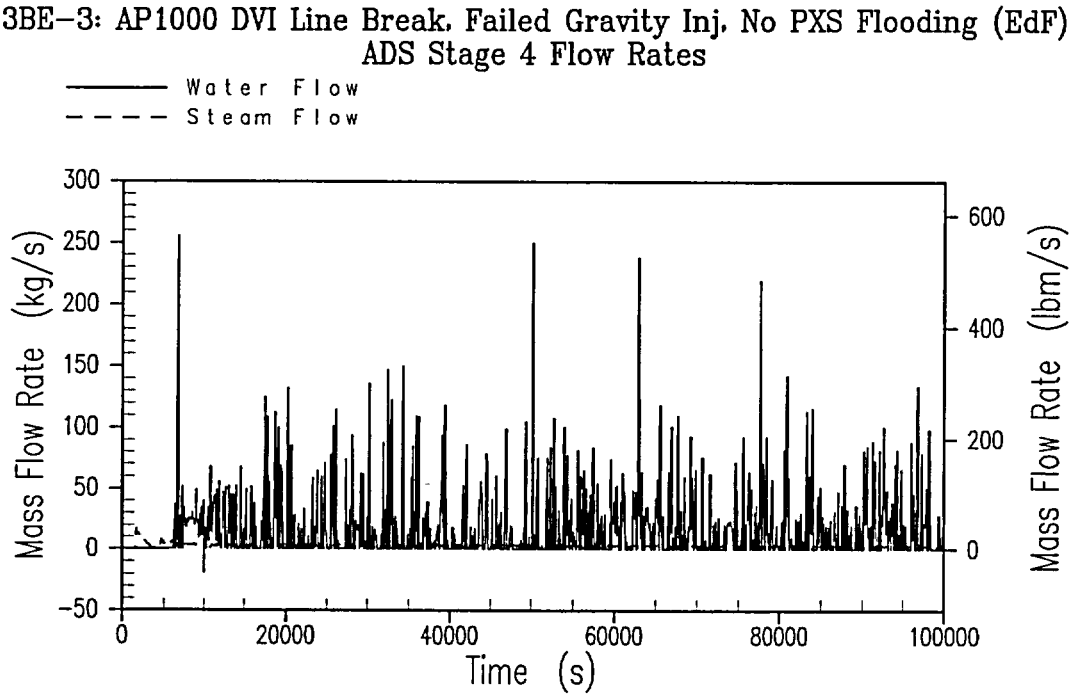

Figure 34-104

Case 3BE-3: ADS Stage 4 Flow Rate

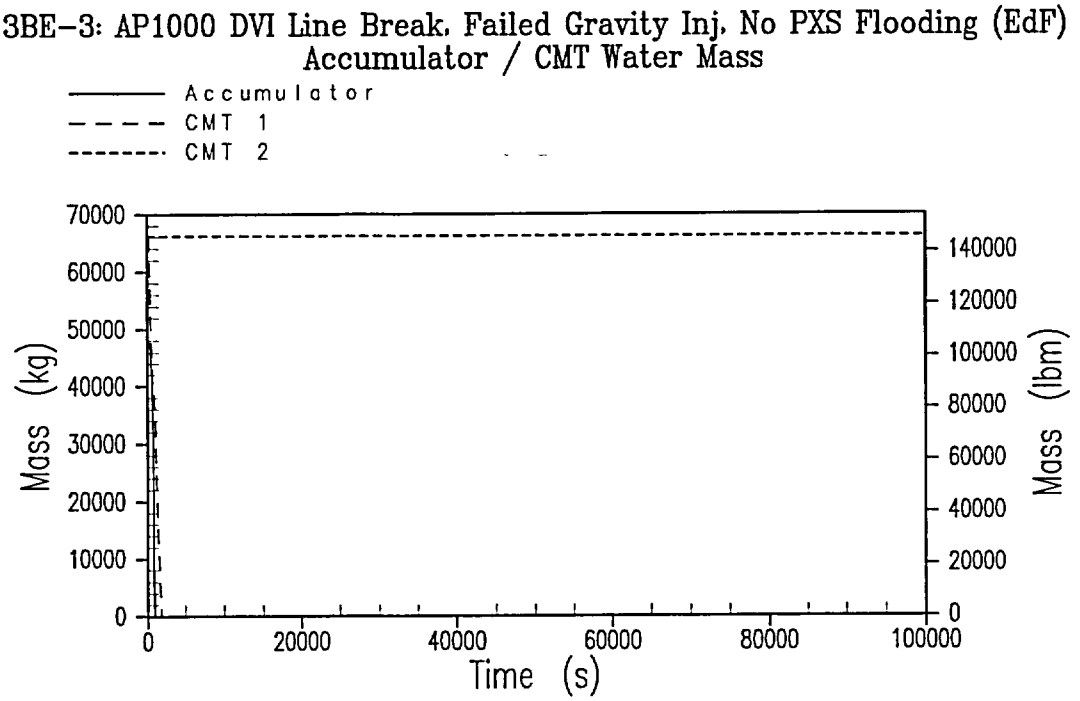

Figure 34-105

Case 3BE-3: Accumulator / CMT Water Mass

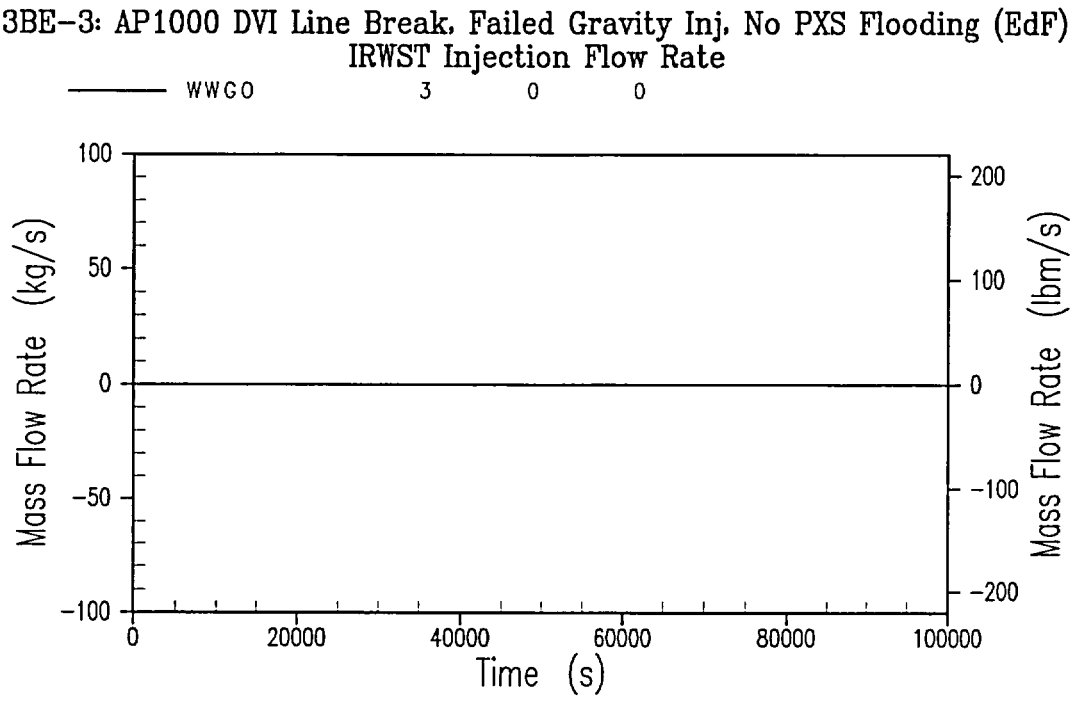

Figure 34-106

Case 3BE-3: IRWST Injection Flow Rate

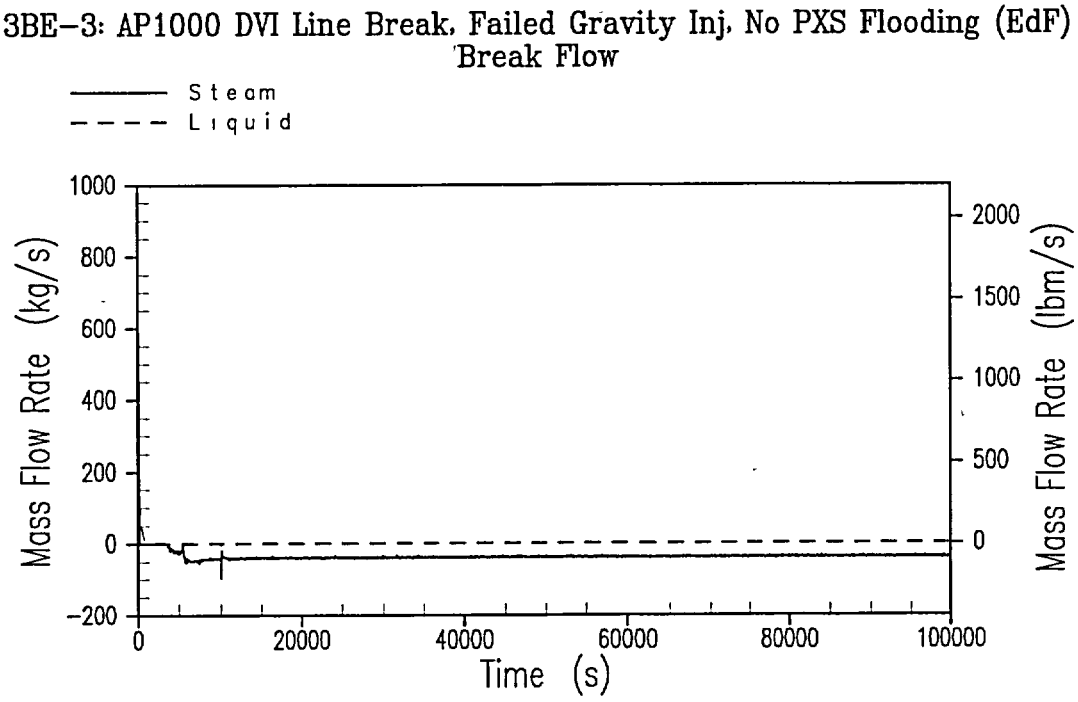

Figure 34-107

Case 3BE-3: Break Flow Rate

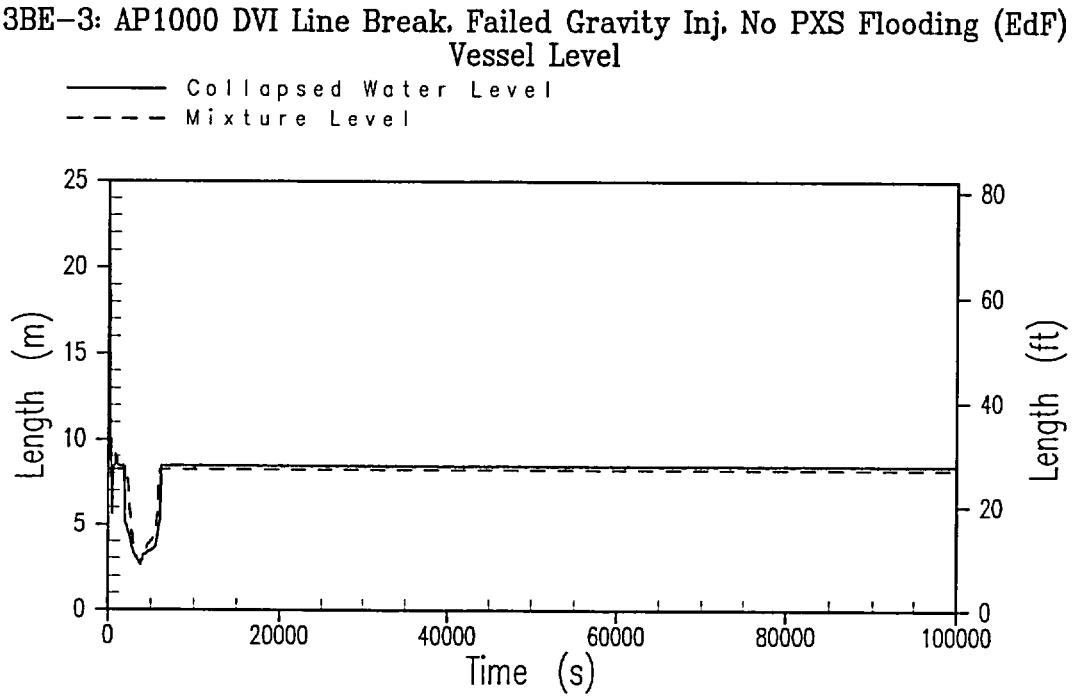

Figure 34-108

Case 3BE-3: Reactor Vessel Water Level

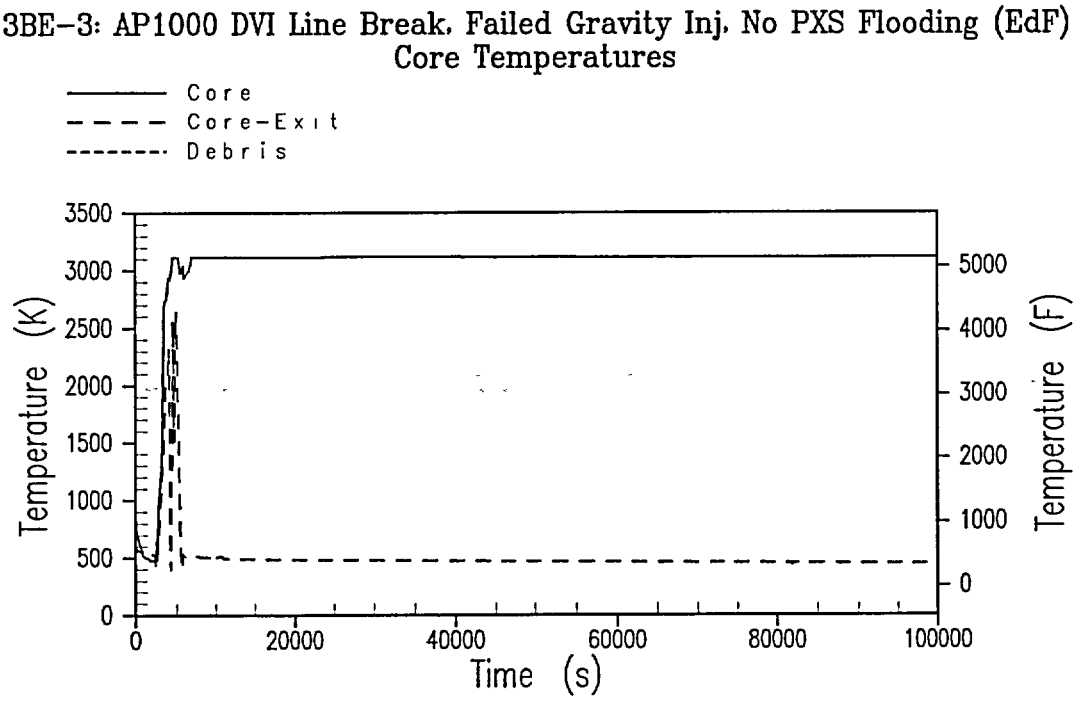

Figure 34-109

Case 3BE-3: Core Temperatures

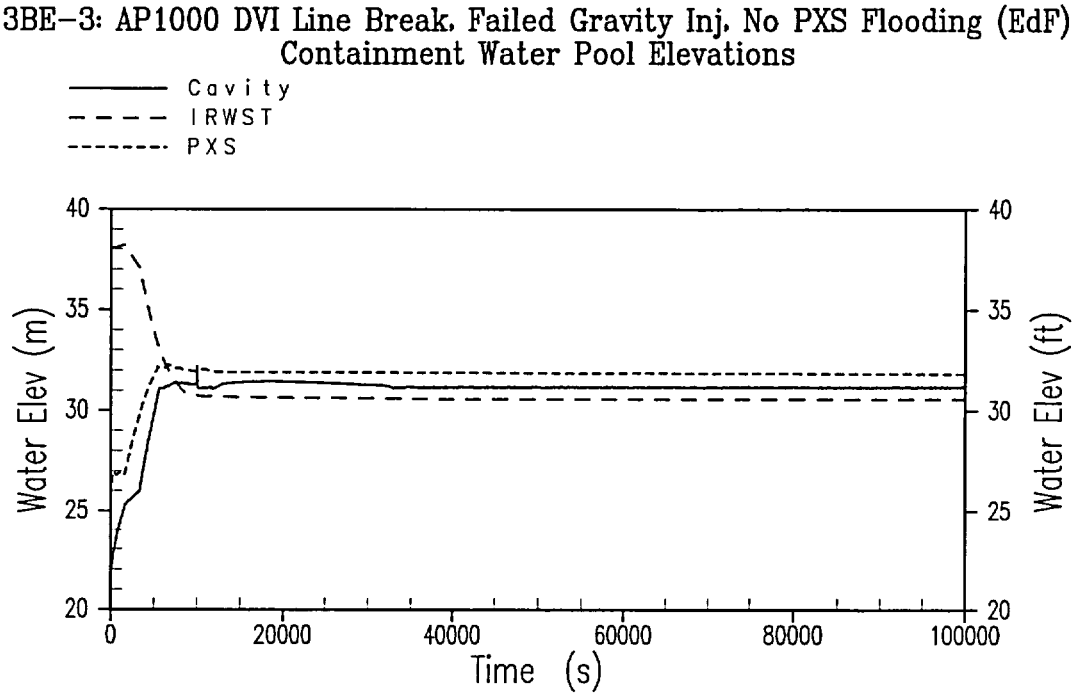

Figure 34-110

Case 3BE-3: Containment Water Pool Elevations

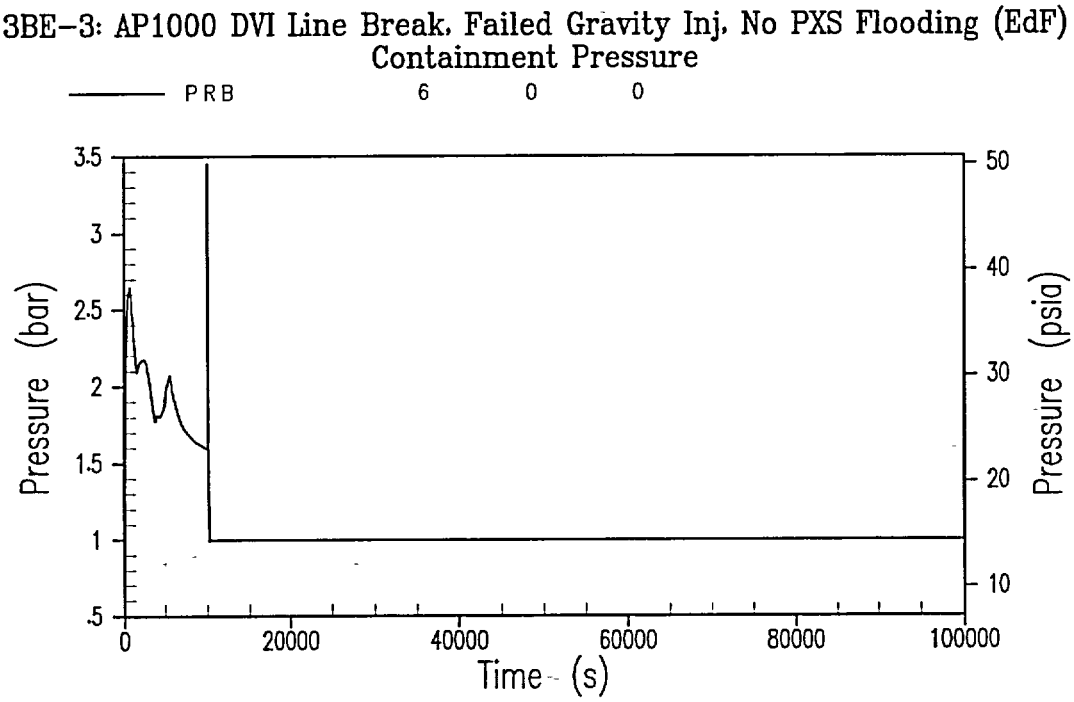

Figure 34-111

Case 3BE-3: Containment Pressure

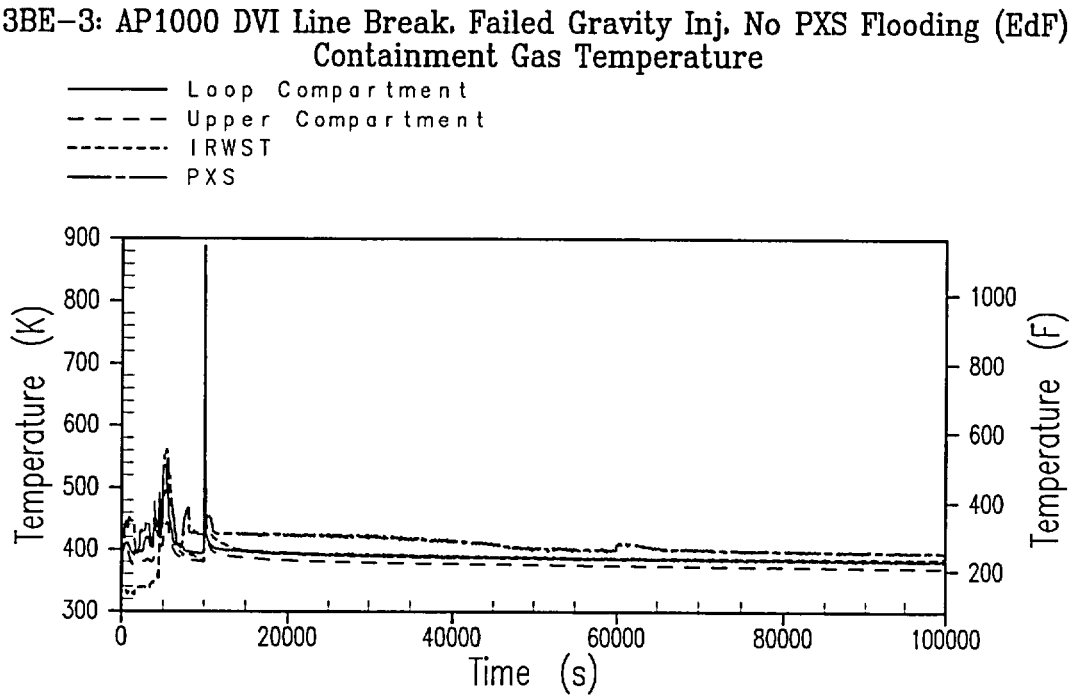

Figure 34-112

Case 3BE-3: Containment Gas Temperature

3BE–3: AP1000 DVI Line Break, Failed Gravity Inj, No PXS Flooding (EdF)
Core Mass

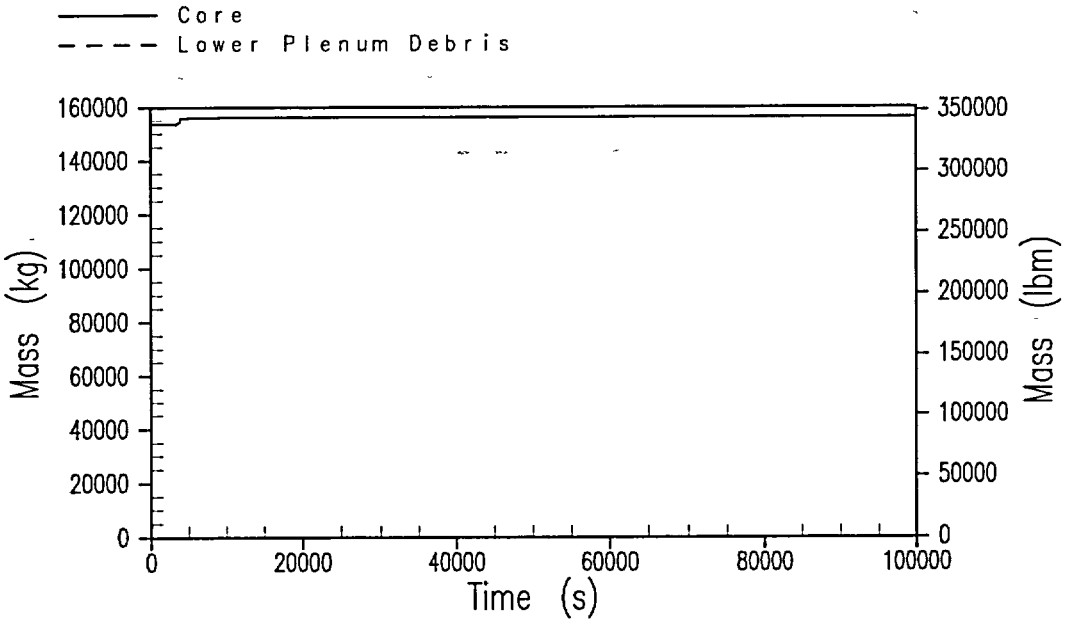

Figure 34-113

Case 3BE-3: Core Mass

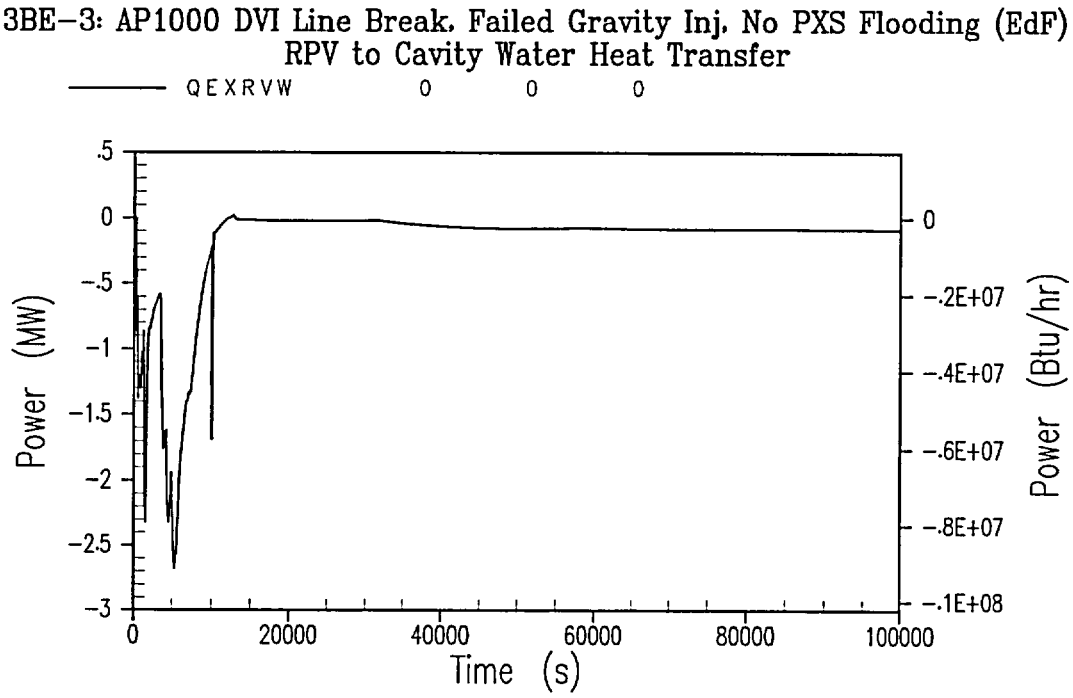

Figure 34-114

Case 3BE-3: Reactor Pressure Vessel to Cavity Water Heat Transfer

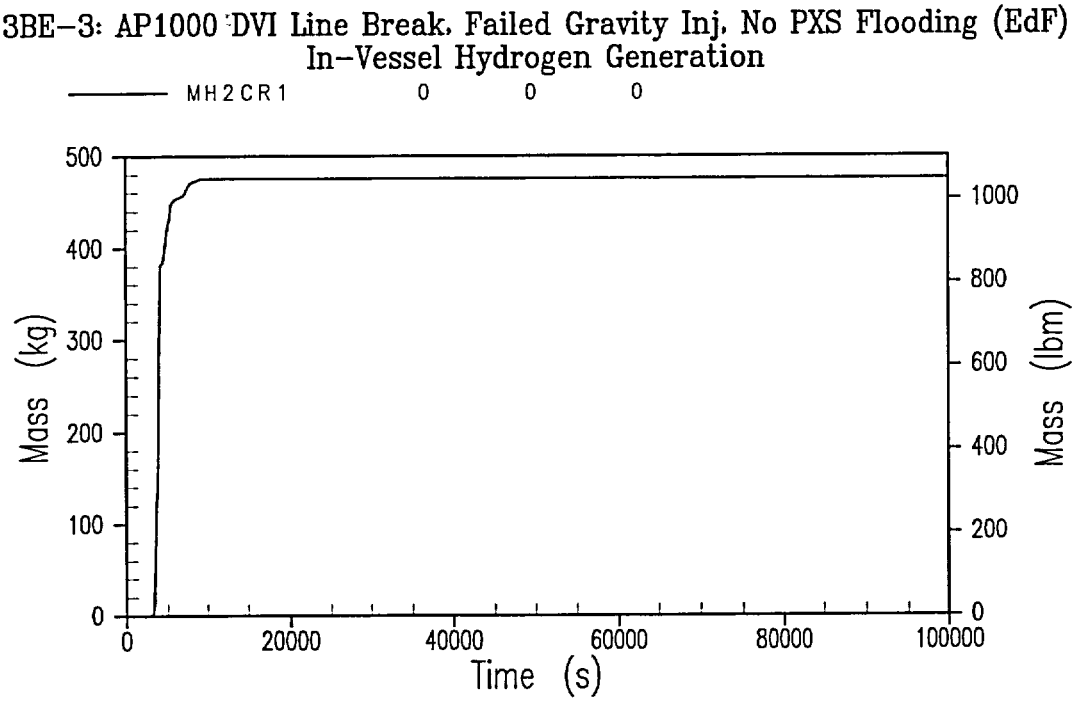

Figure 34-115

Case 3BE-3: In-Vessel Hydrogen Generation

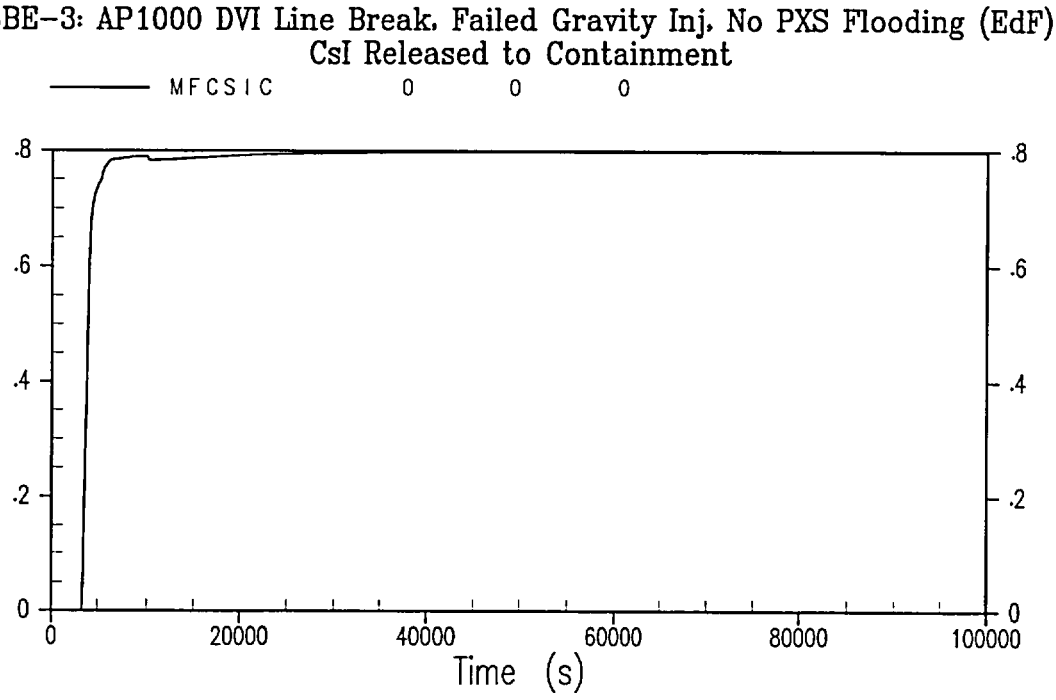

Figure 34-116

Case 3BE-3: Mass Fraction of CsI Released to Containment

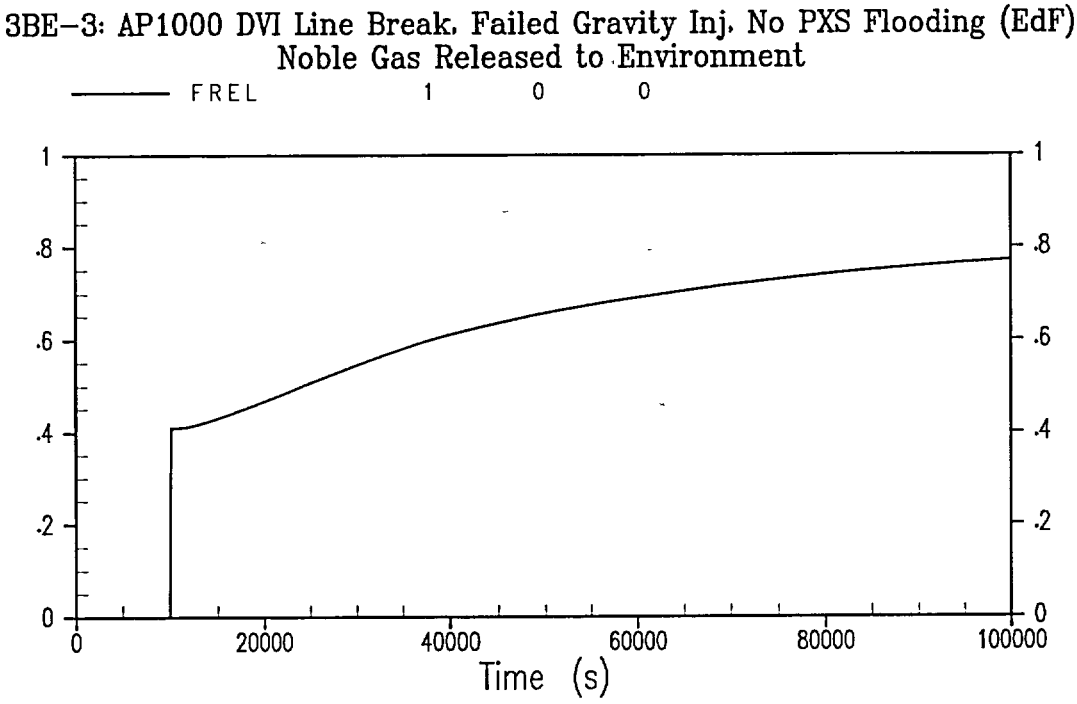

Figure 34-117

Case 3BE-3: Mass Fraction of Noble Gases Released to Environment

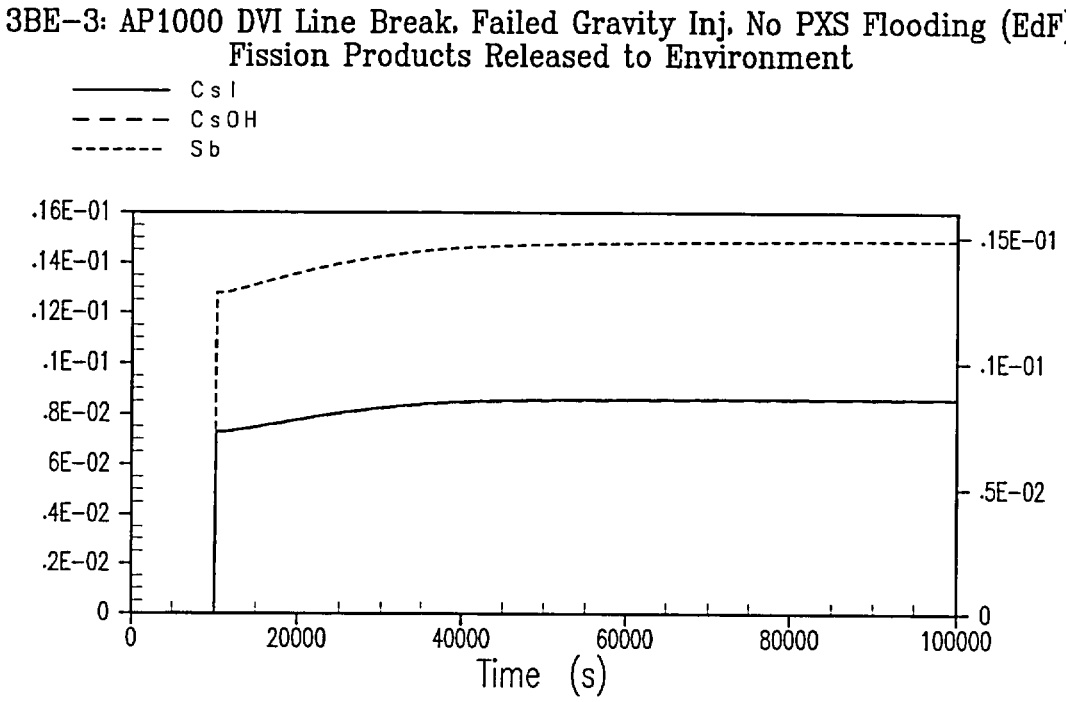

Figure 34-118

Case 3BE-3: Mass Fraction of Fission Products Released to Environment

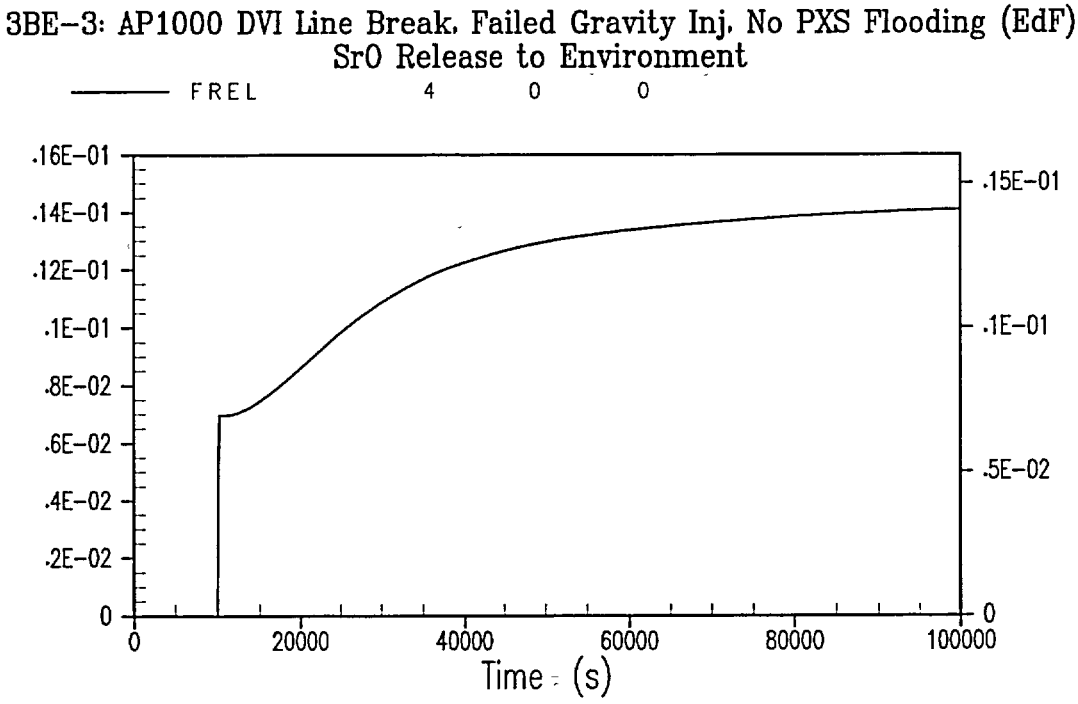

Figure 34-119

Case 3BE-3: Mass Fraction of SrO Released to Environment

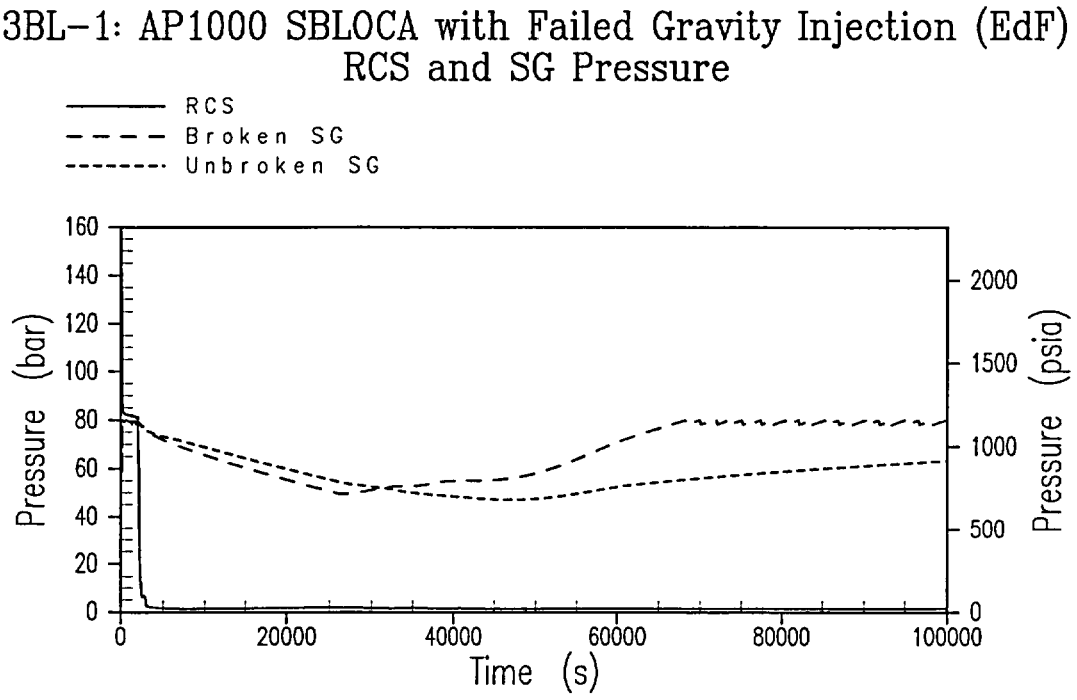

Figure 34-120

Case 3BL-1: RCS and Steam Generator Pressure

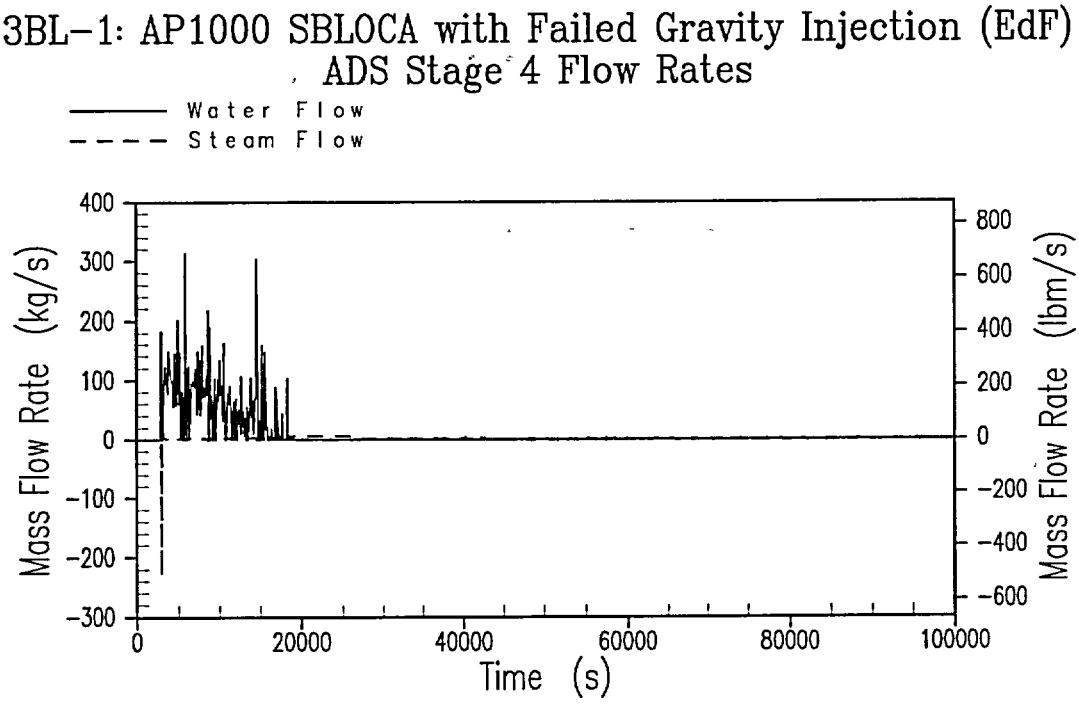

Figure 34-121

Case 3BL-1: ADS Stage 4 Flow Rates

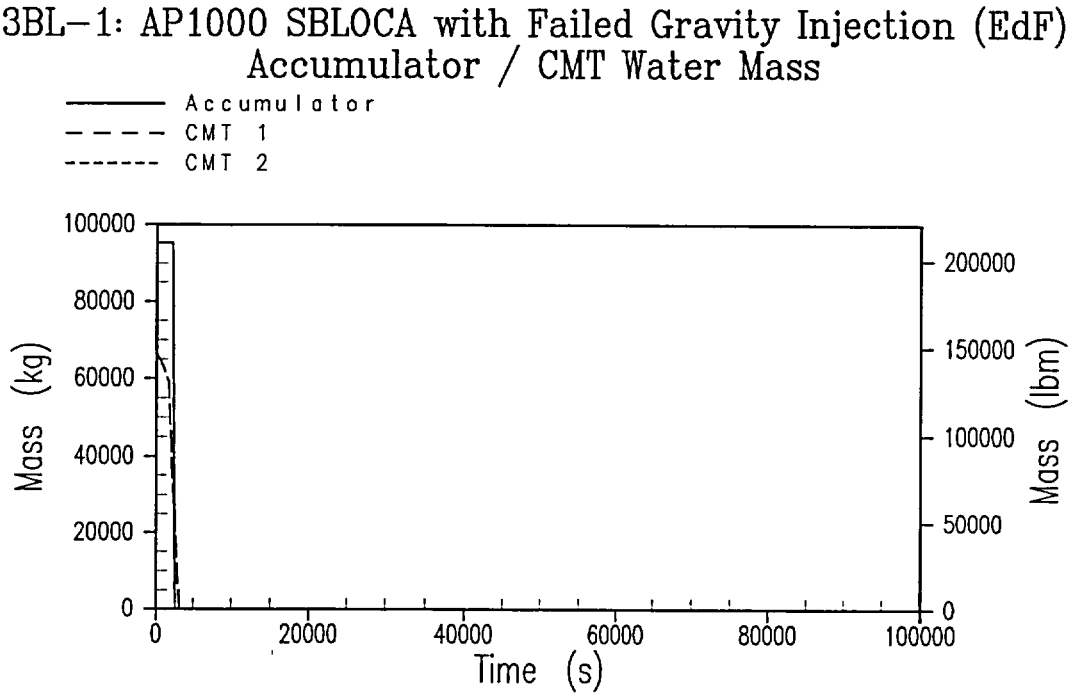

Figure 34-122

Case 3BL-1: Accumulator / CMT Water Mass

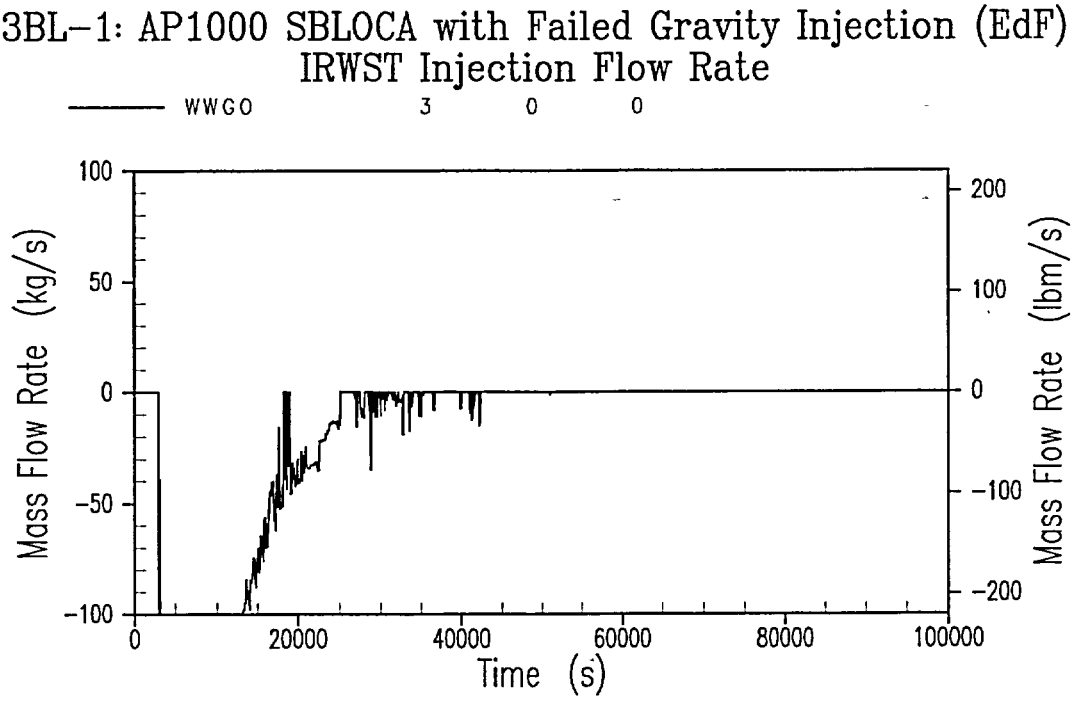

Figure 34-123

Case 3BL-1: IRWST Injection Flow Rate

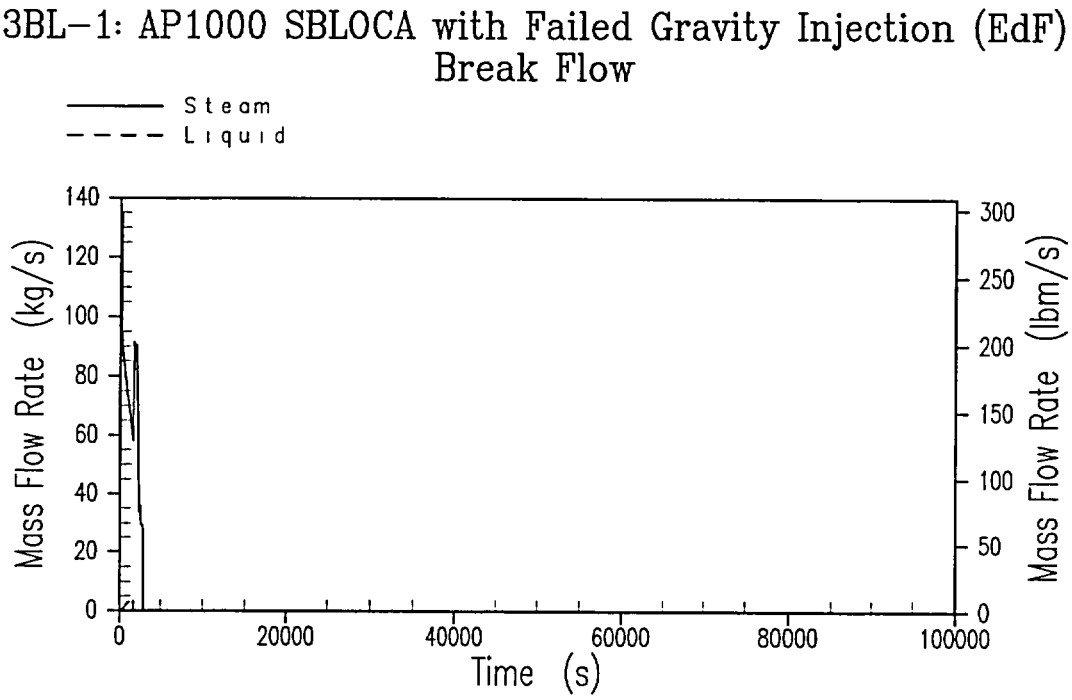

Figure 34-124

Case 3BL-1: Break Flow Rate

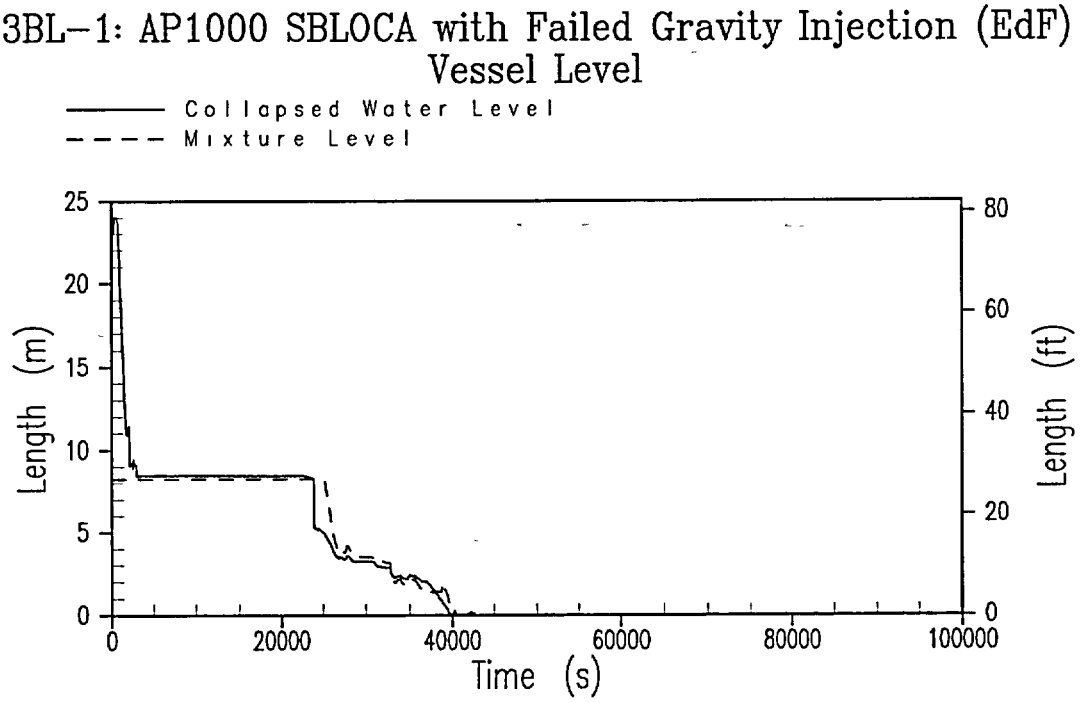

Figure 34-125

Case 3BL-1: Reactor Vessel Water Level

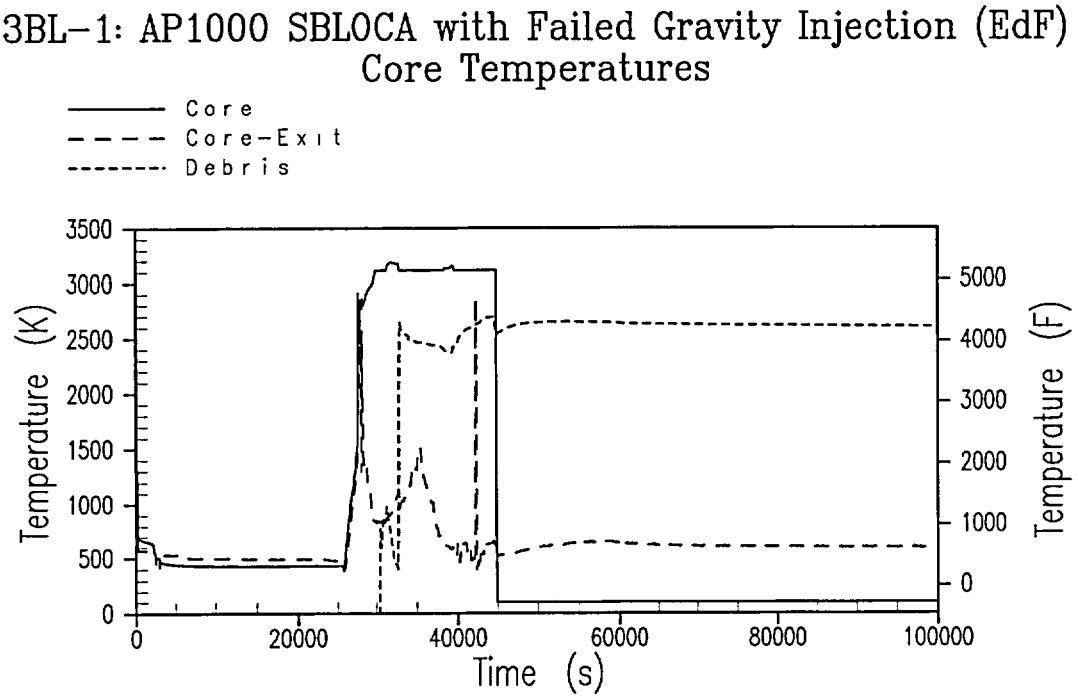

Figure 34-126

Case 3BL-1: Core Temperatures

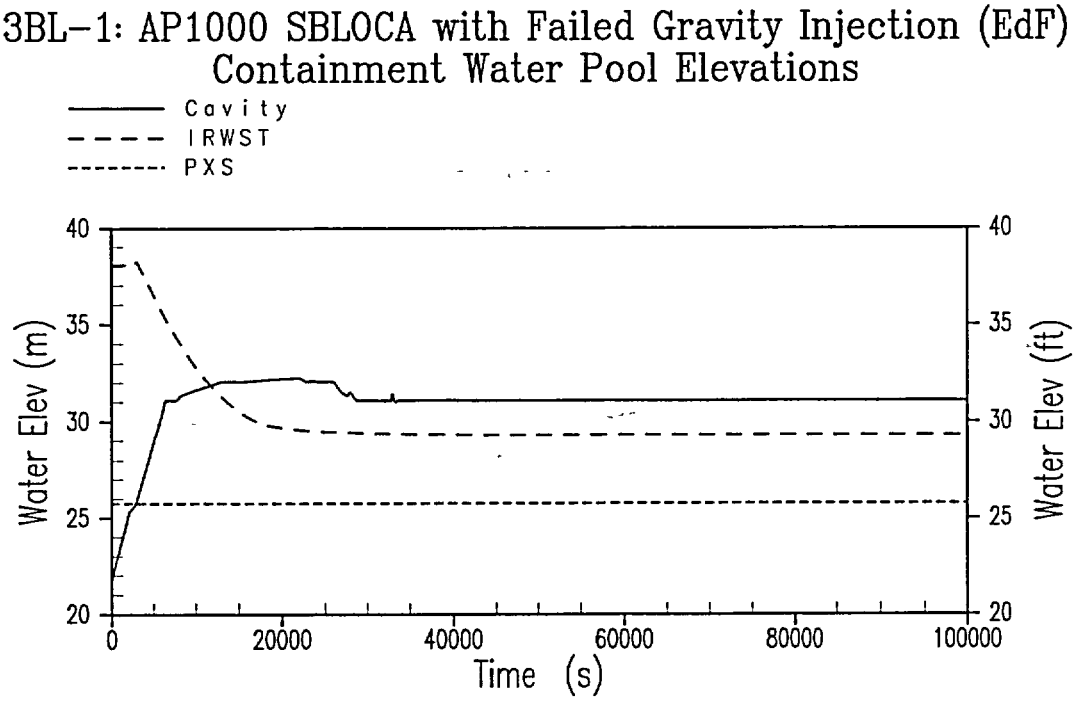

Figure 34-127

Case 3BL-1: Containment Water Pool Elevations

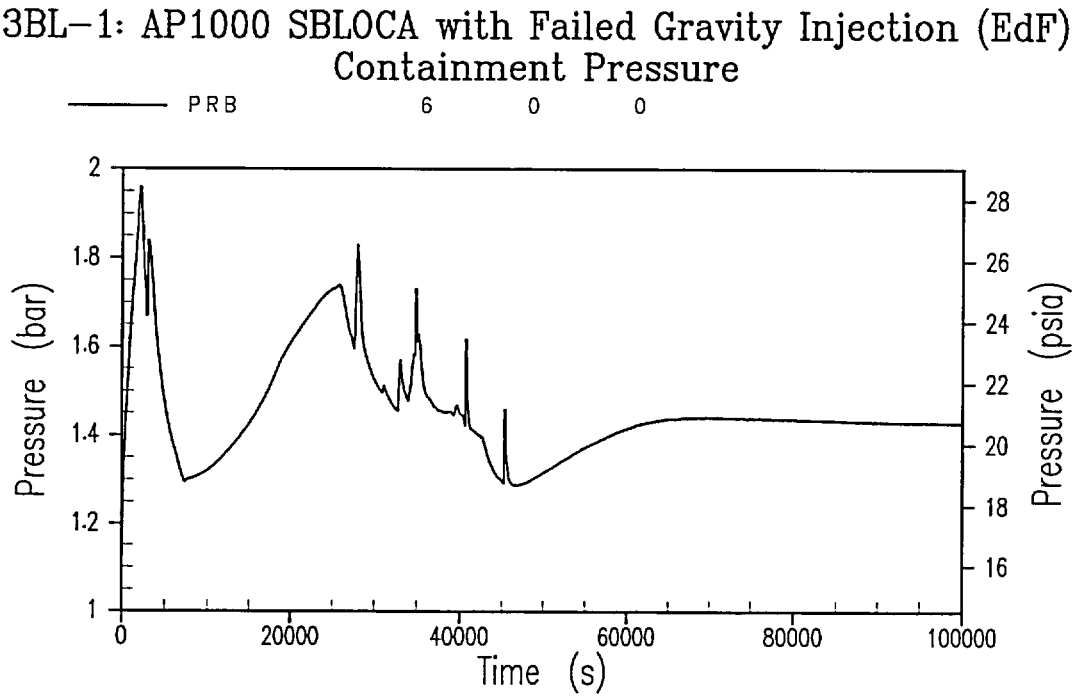

Figure 34-128

Case 3BL-1: Containment Pressure

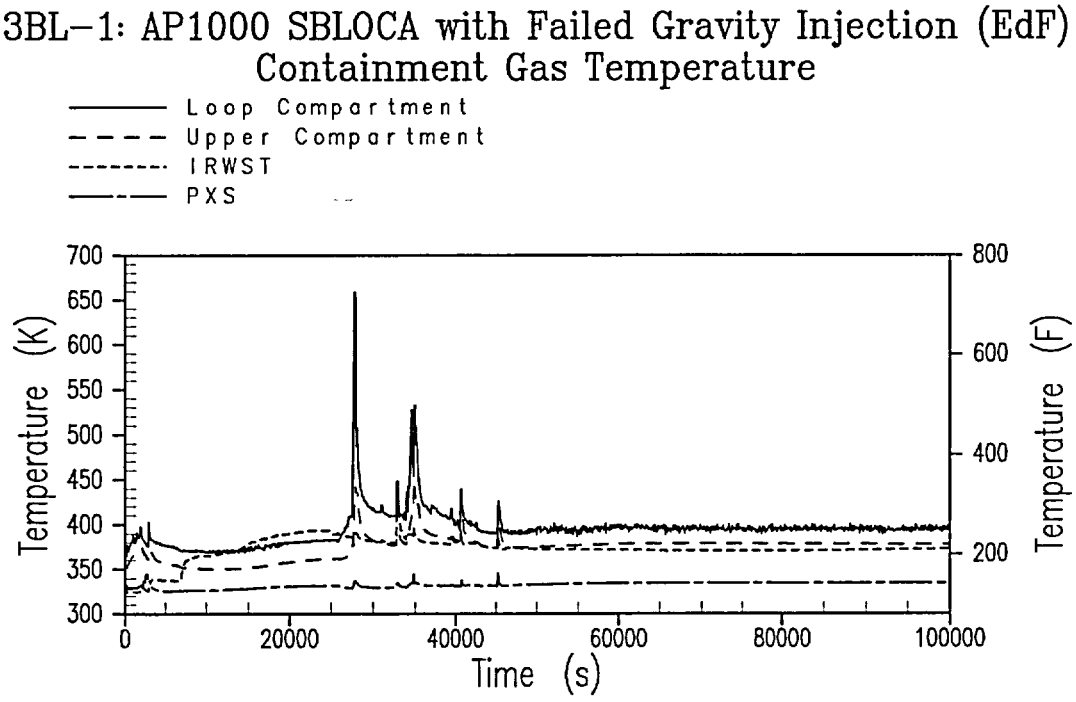

Figure 34-129

Case 3BL-1: Containment Gas Temperature

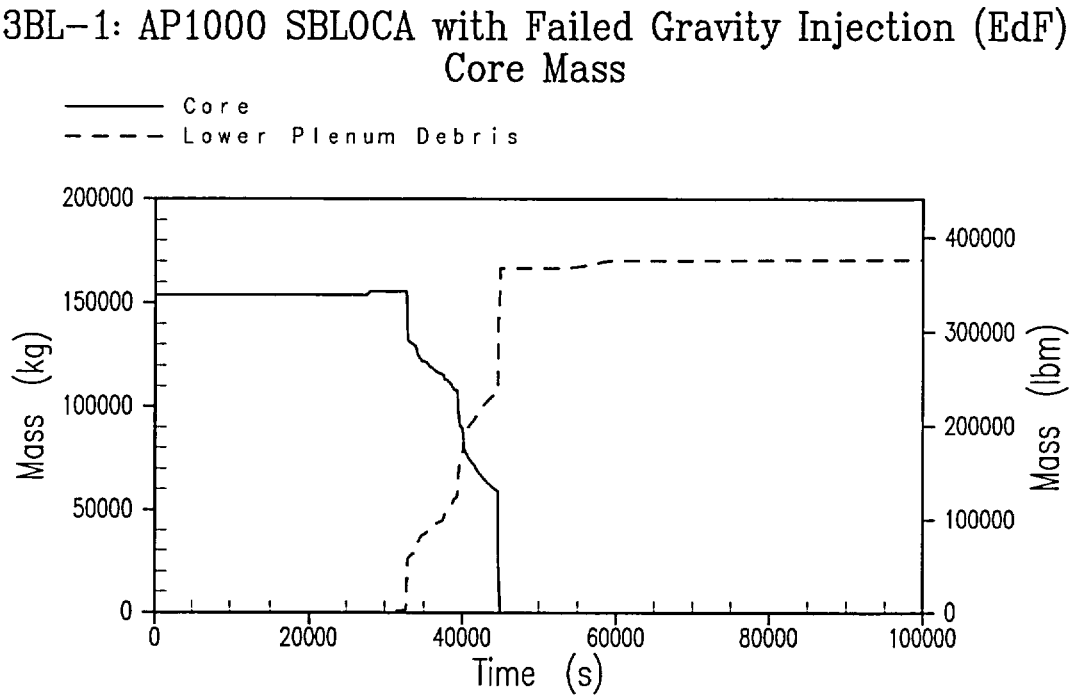

Figure 34-130

Case 3BL-1: Core Mass

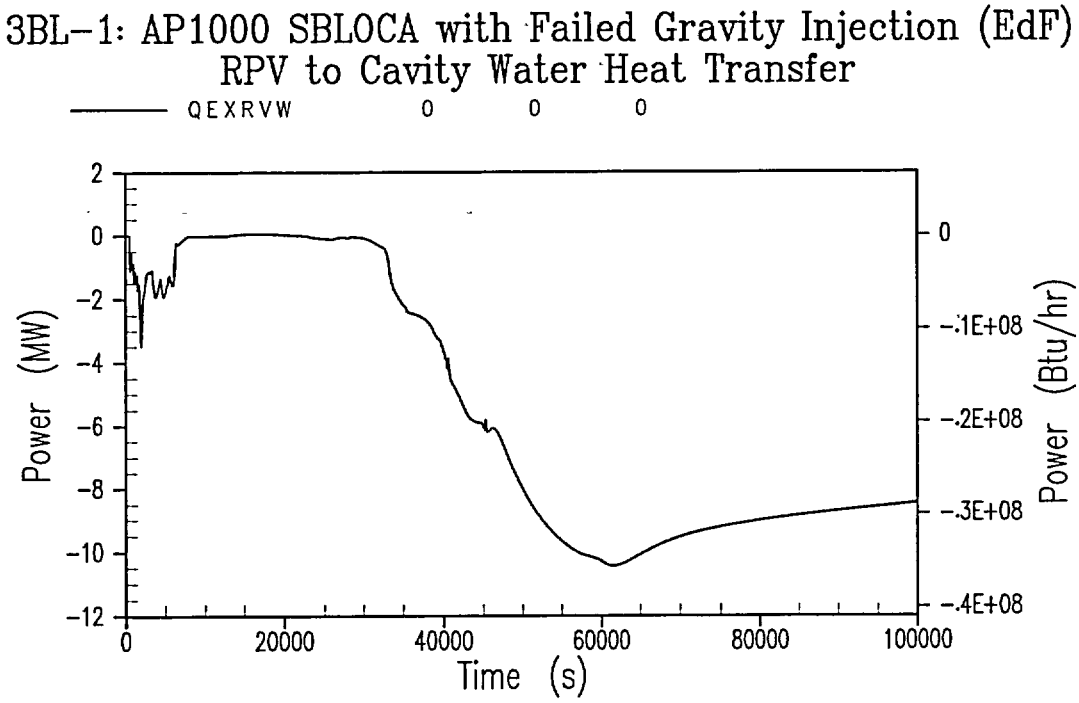

Figure 34-131

Case 3BL-1: Reactor Pressure Vessel to Cavity Water Heat Transfer

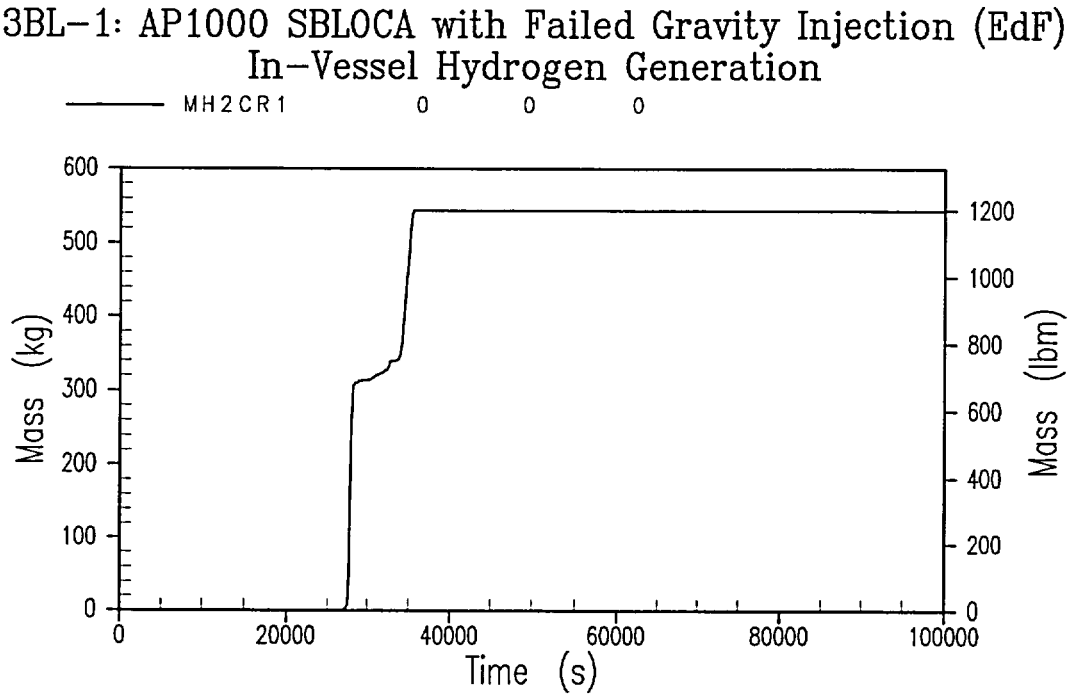

Figure 34-132

Case 3BL-1: In-Vessel Hydrogen Generation

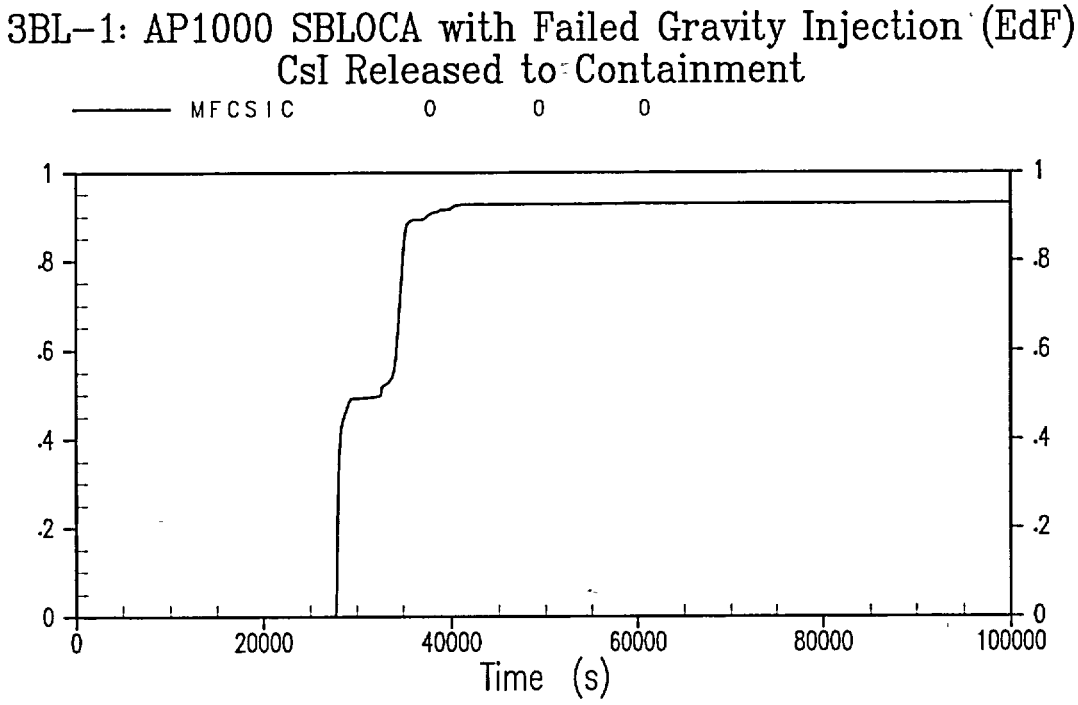

Figure 34-133

Case 3BL-1: Mass Fraction of CsI Released to Containment

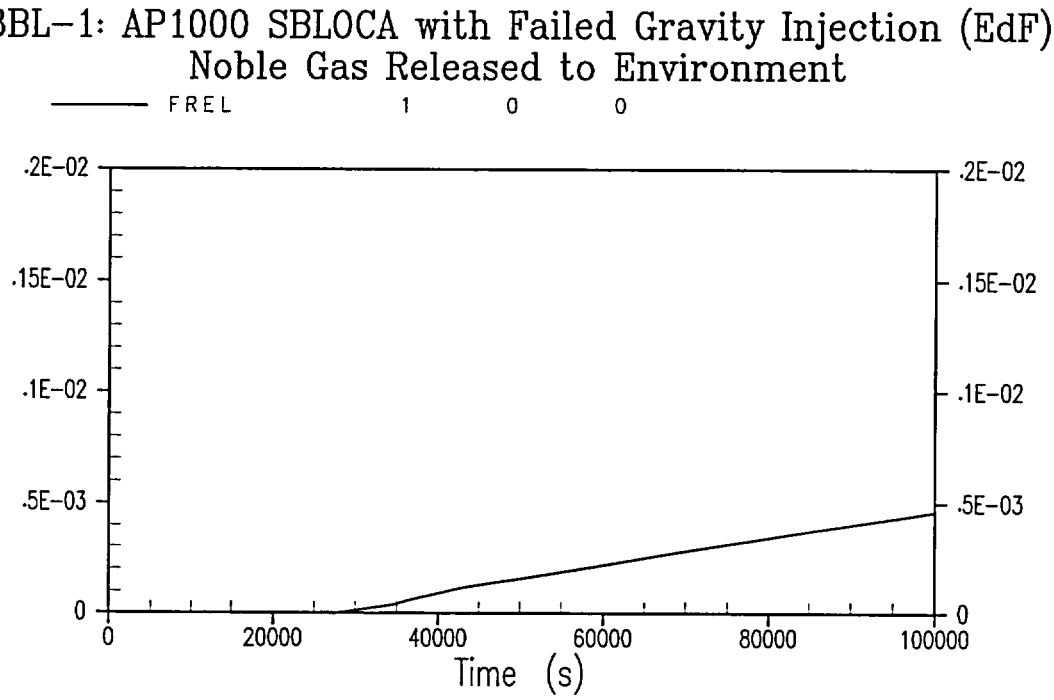

Figure 34-134

Case 3BL-1: Mass Fraction of Noble Gases Released to Environment

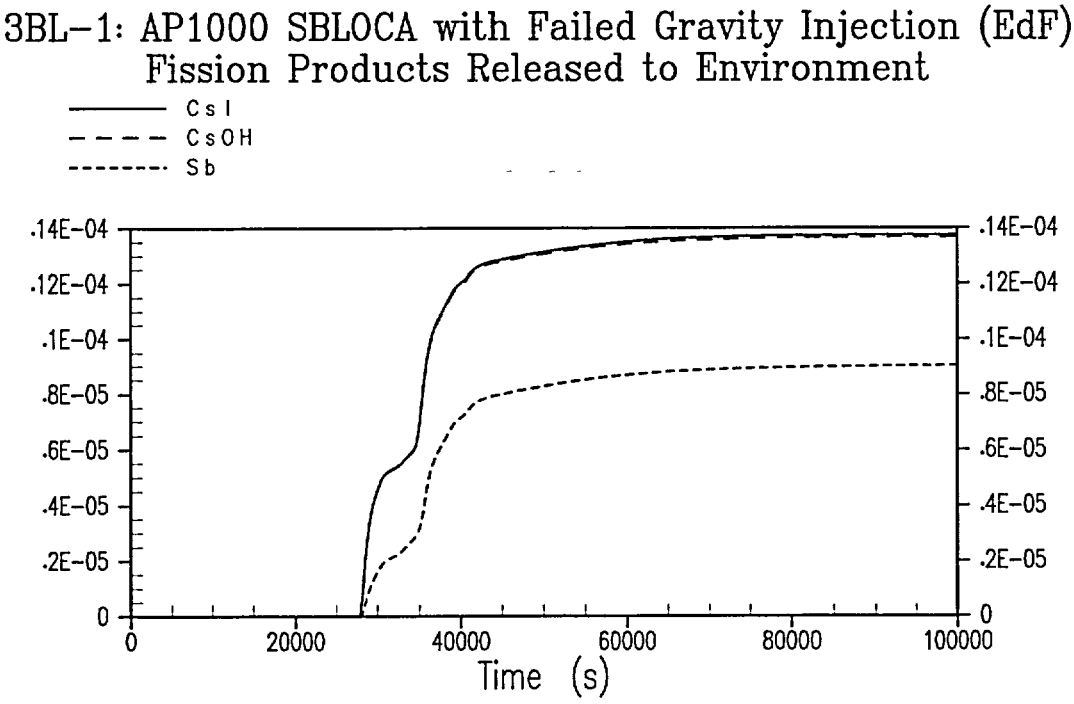

Figure 34-135

Case 3BL-1: Mass Fraction of Fission Products Released to Environment

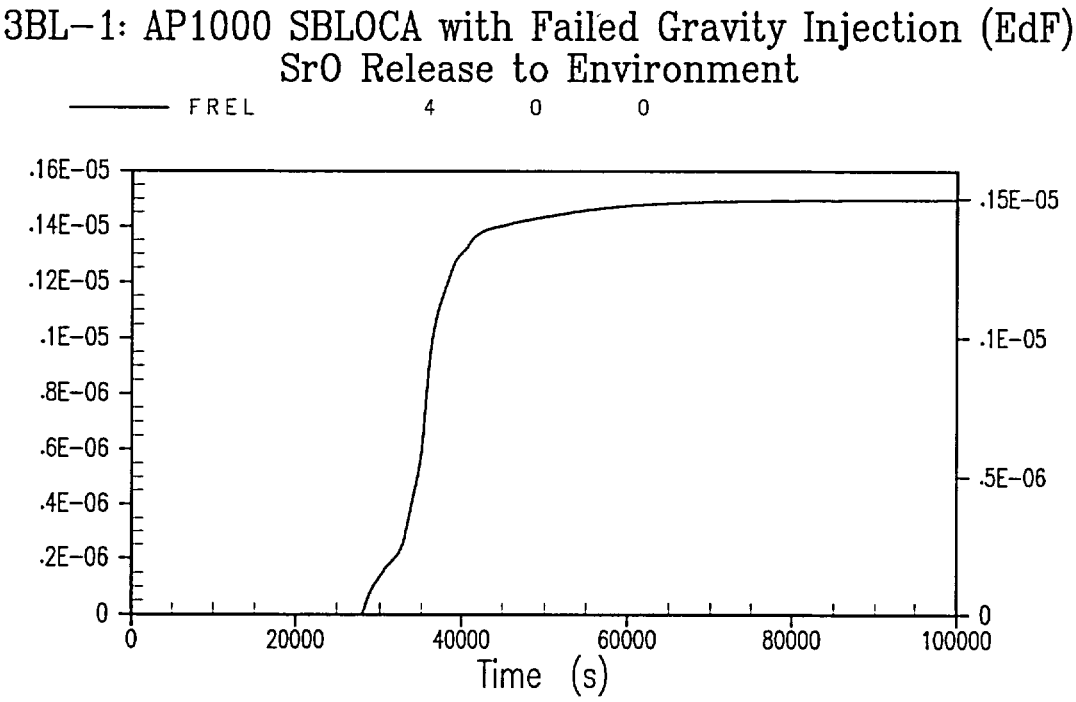

Figure 34-136

Case 3BL-1: Mass Fraction of SrO Released to Environment

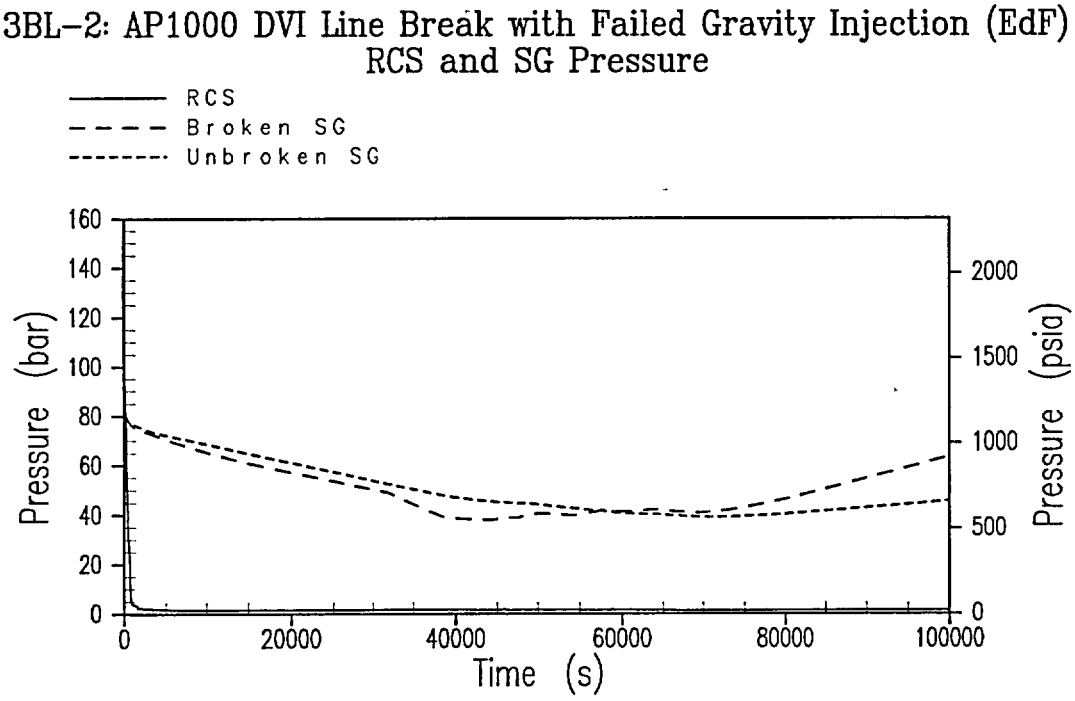

Figure 34-137

Case 3BL-2: RCS and Steam Generator Pressure

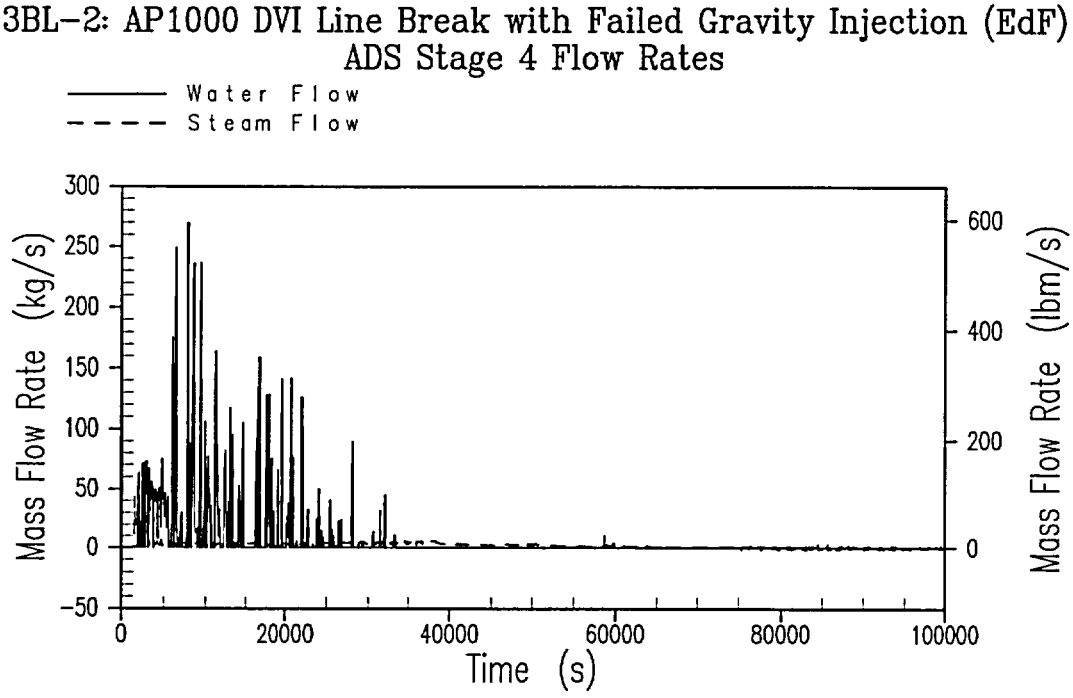

Figure 34-138

Case 3BL-2: ADS Stage 4 Flow Rates

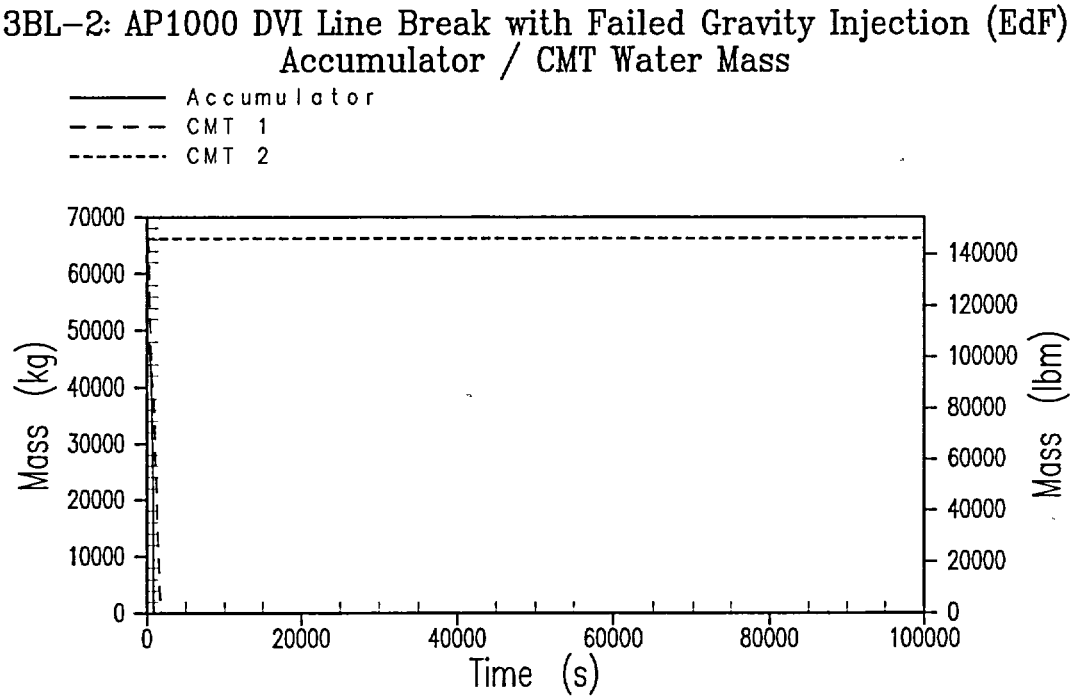

Figure 34-139

Case 3BL-2: Accumulator / CMT Water Mass

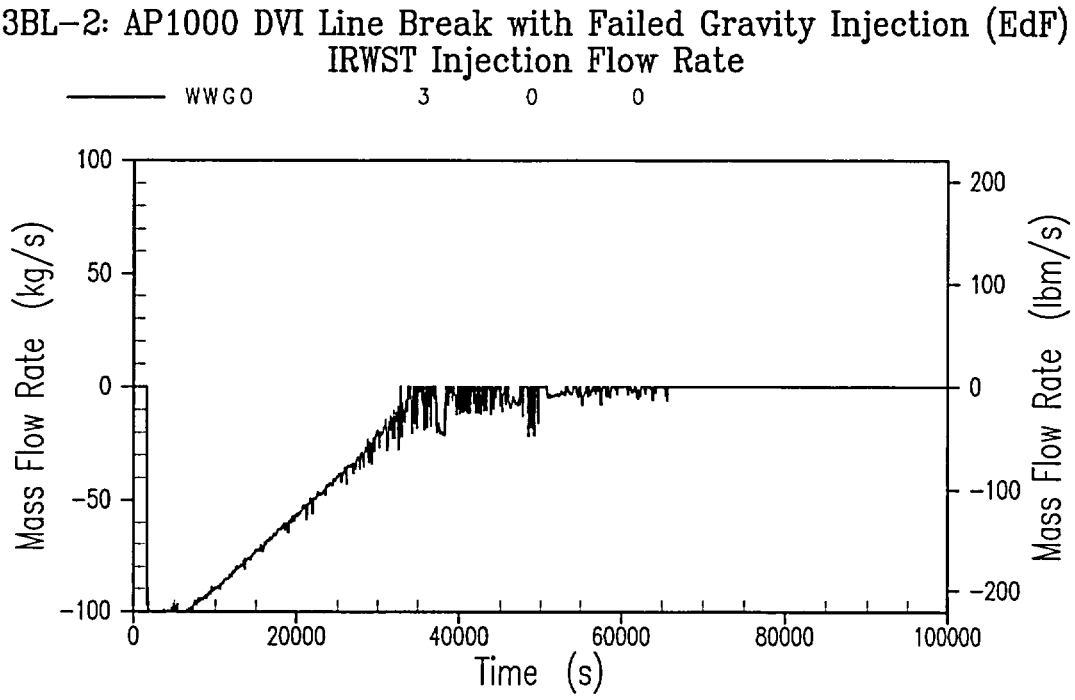

Figure 34-140

Case 3BL-2: IRWST Injection Flow Rate

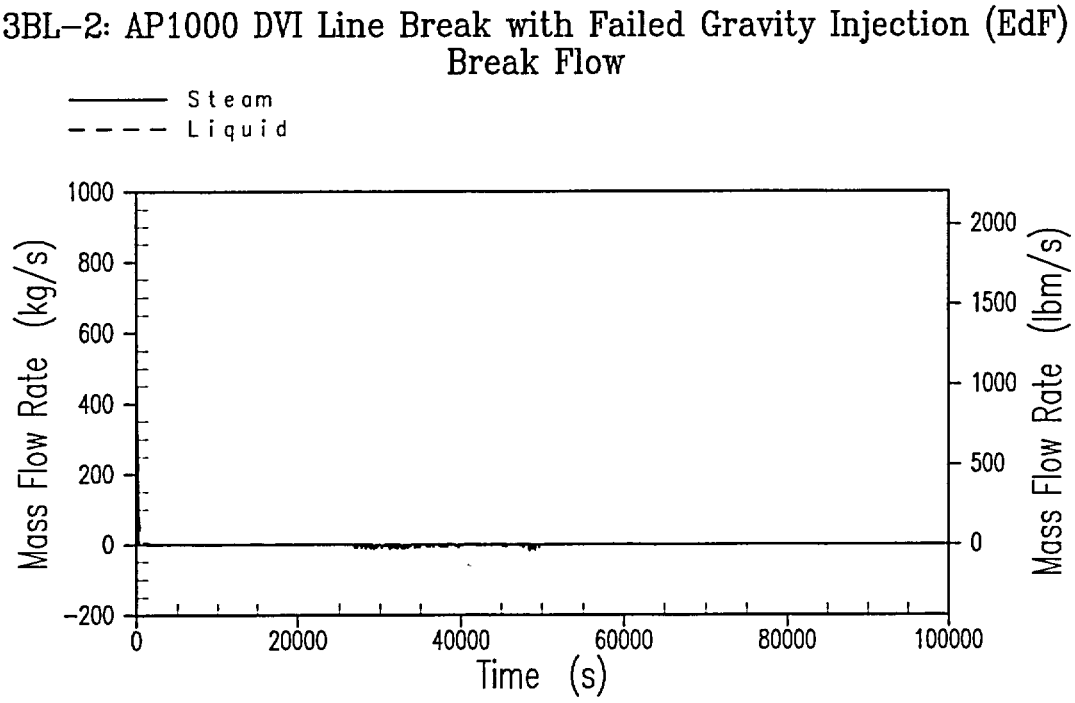

Figure 34-141

Case 3BL-2: Break Flow Rate

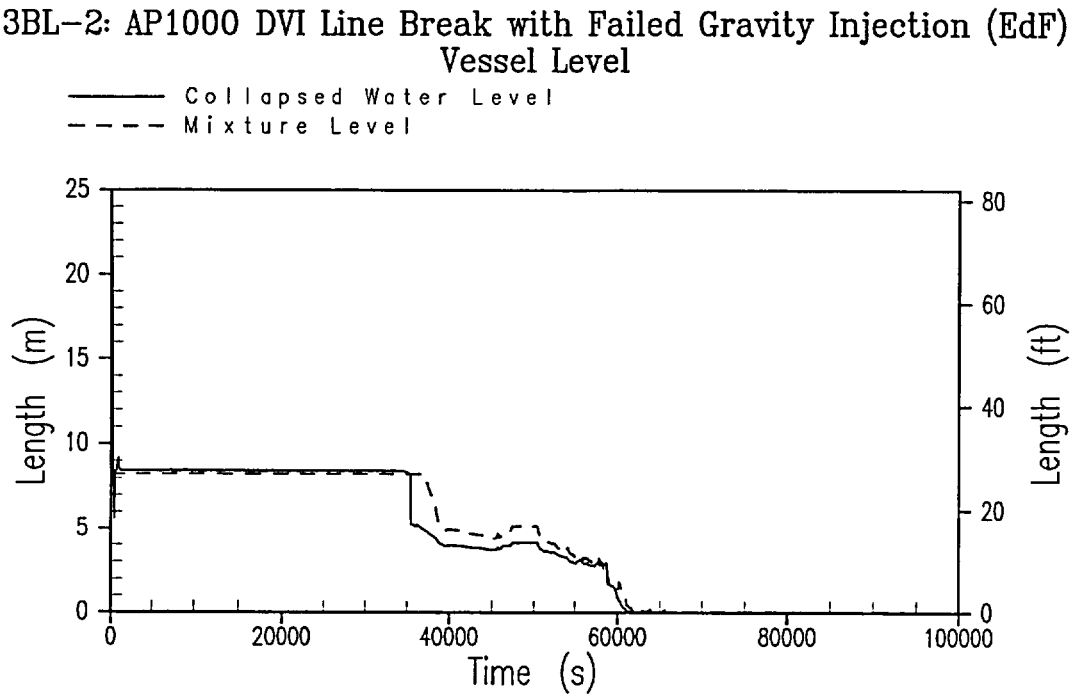

Figure 34-142

Case 3BL-2: Reactor Vessel Water Level

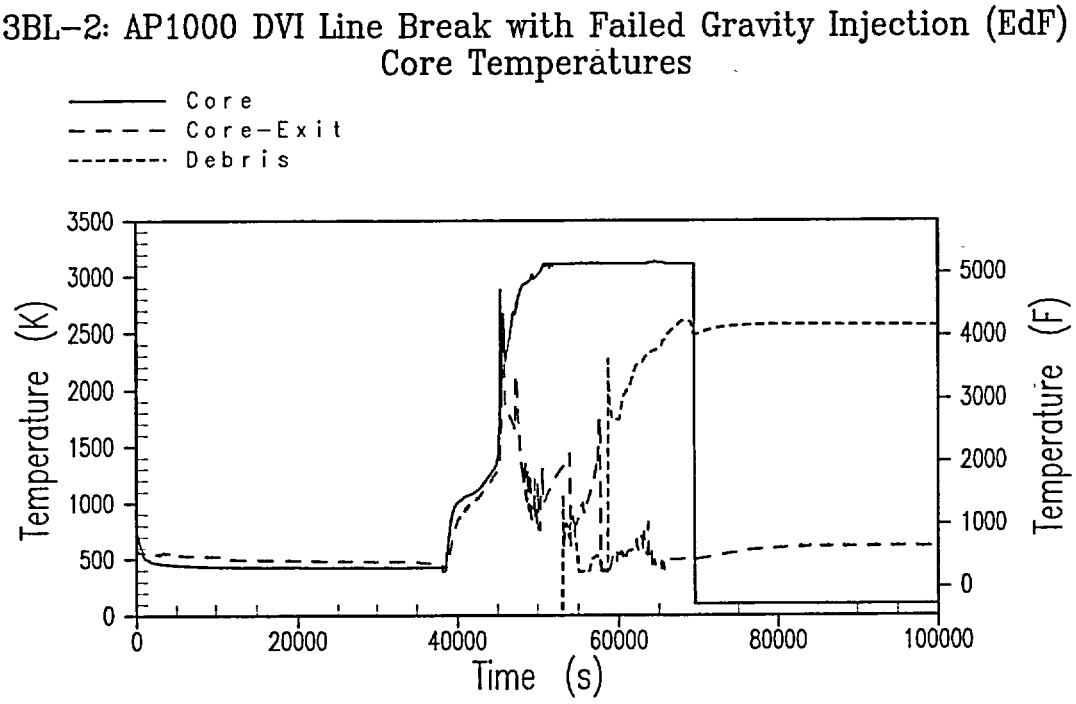

Figure 34-143

Case 3BL-2: Core Temperatures

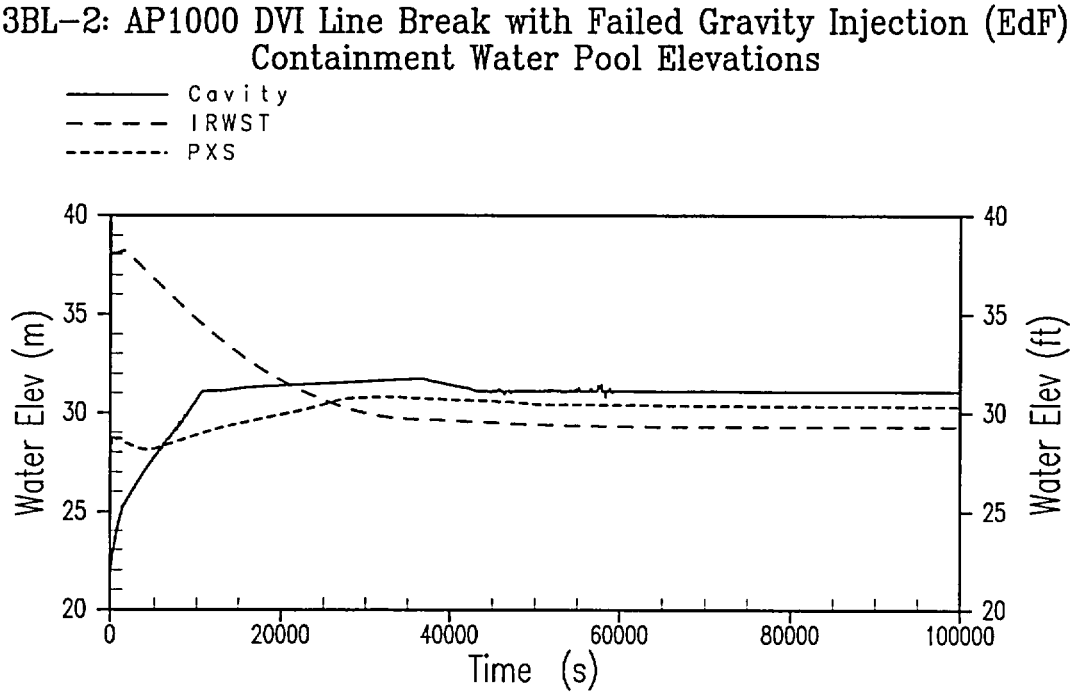

Figure 34-144

Case 3BL-2: Containment Water Pool Elevations

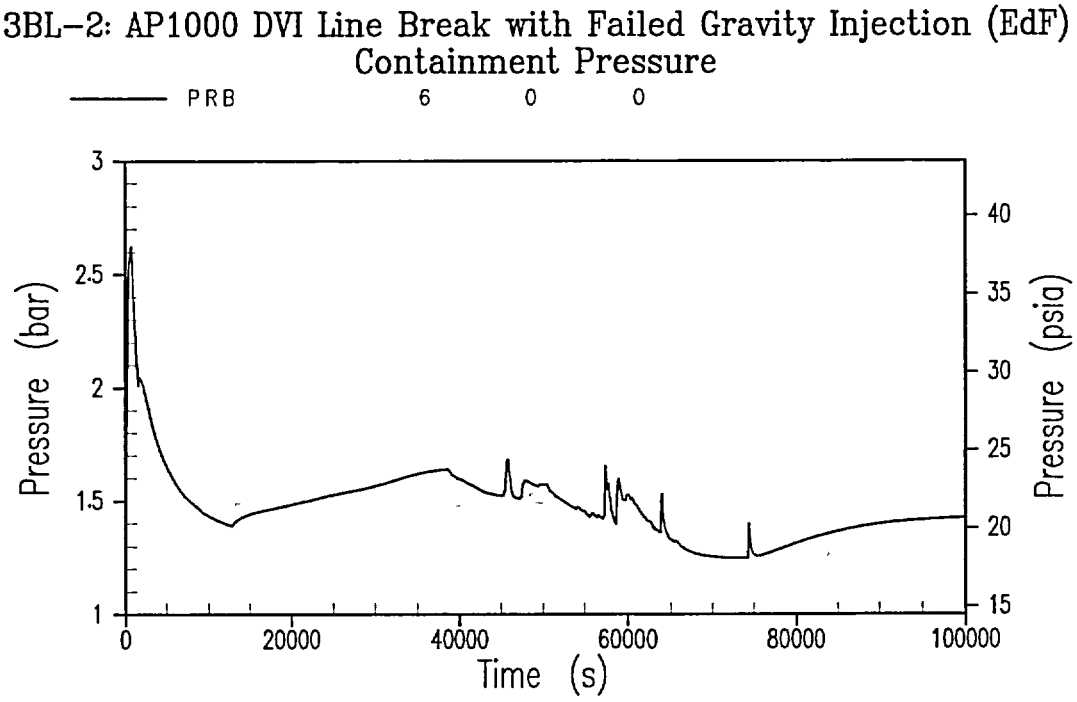

Figure 34-145

Case 3BL-2: Containment Pressure

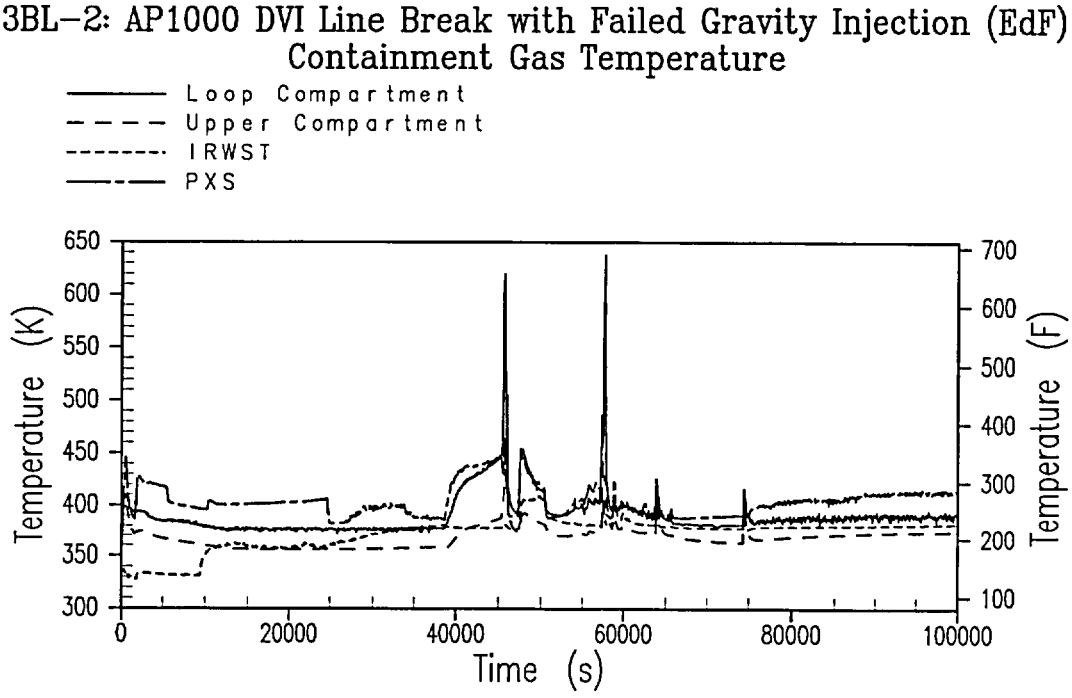

Figure 34-146

Case 3BL-2: Containment Gas Temperature

3BL–2: AP1000 DVI Line Break with Failed Gravity Injection (EdF)
Core Mass

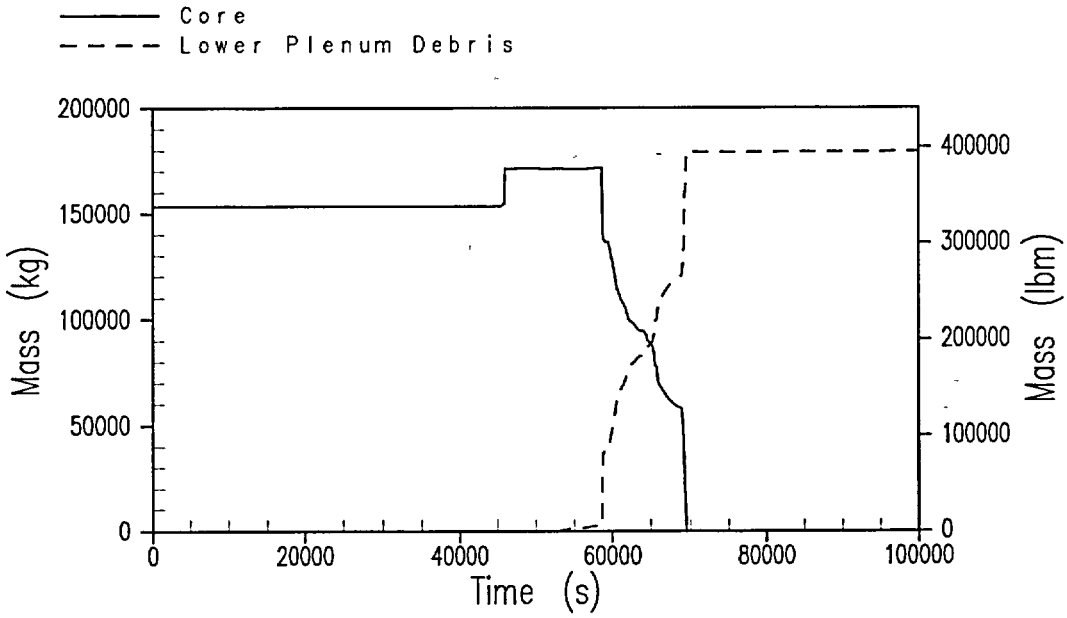

Figure 34-147

Case 3BL-2: Core Mass

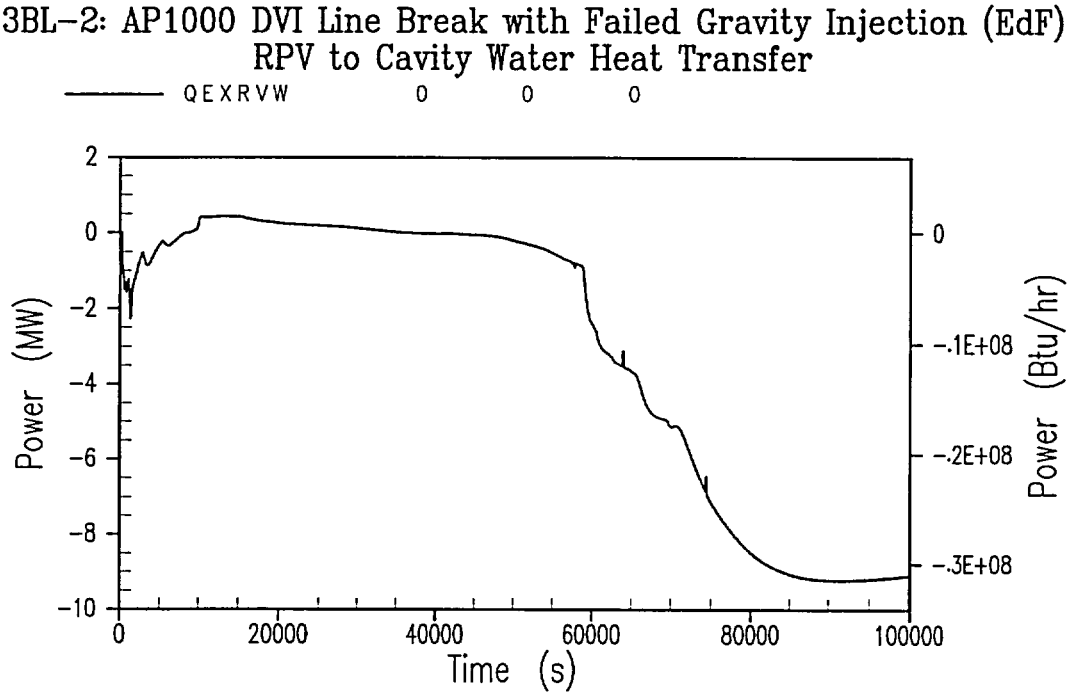

Figure 34-148

Case 3BL-2: Reactor Pressure Vessel to Cavity Water Heat Transfer

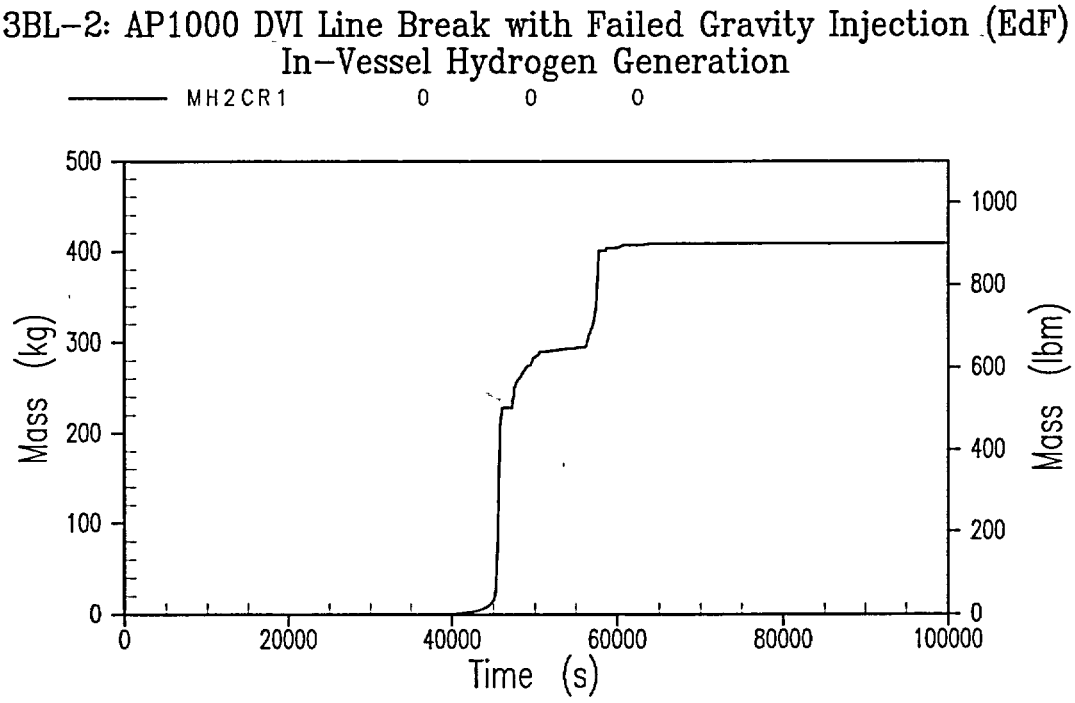

Figure 34-149

Case 3BL-2: In-Vessel Hydrogen Generation

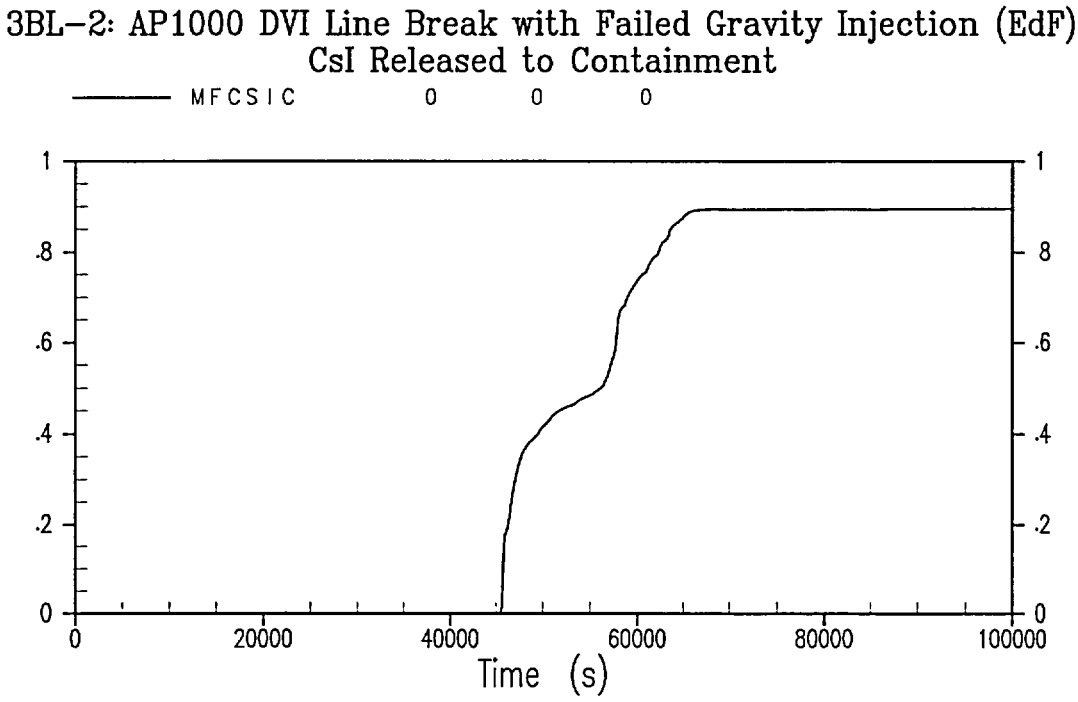

Figure 34-150

Case 3BL-2: Mass Fraction of CsI Released to Containment

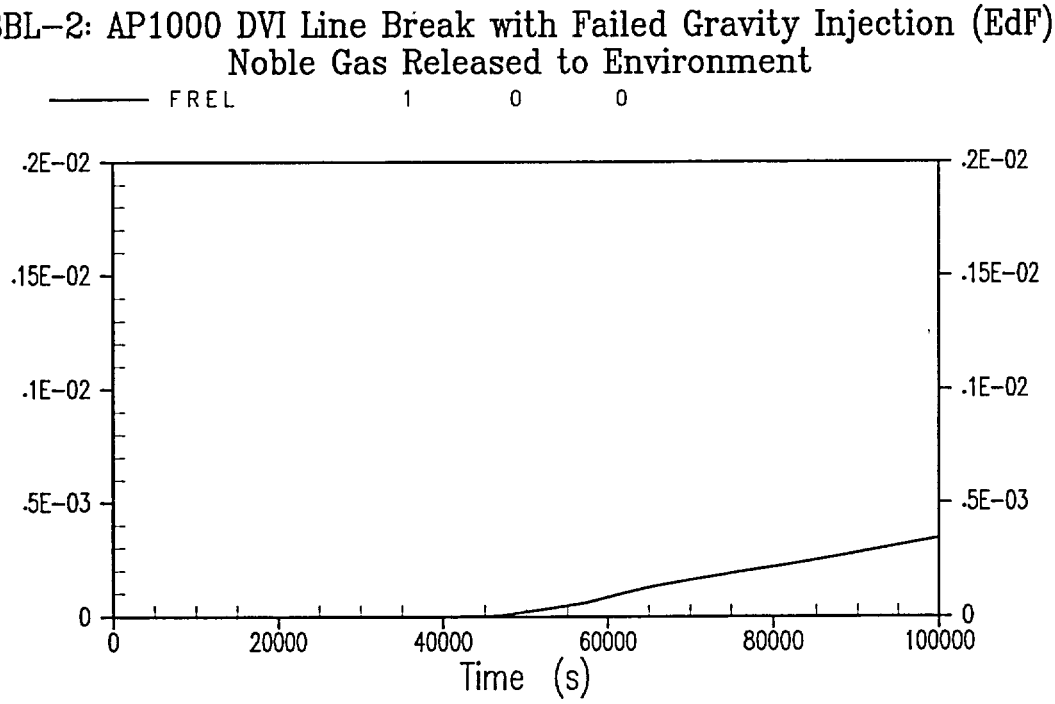

Figure 34-151

Case 3BL-2: Mass Fraction of Noble Gases Released to Environment

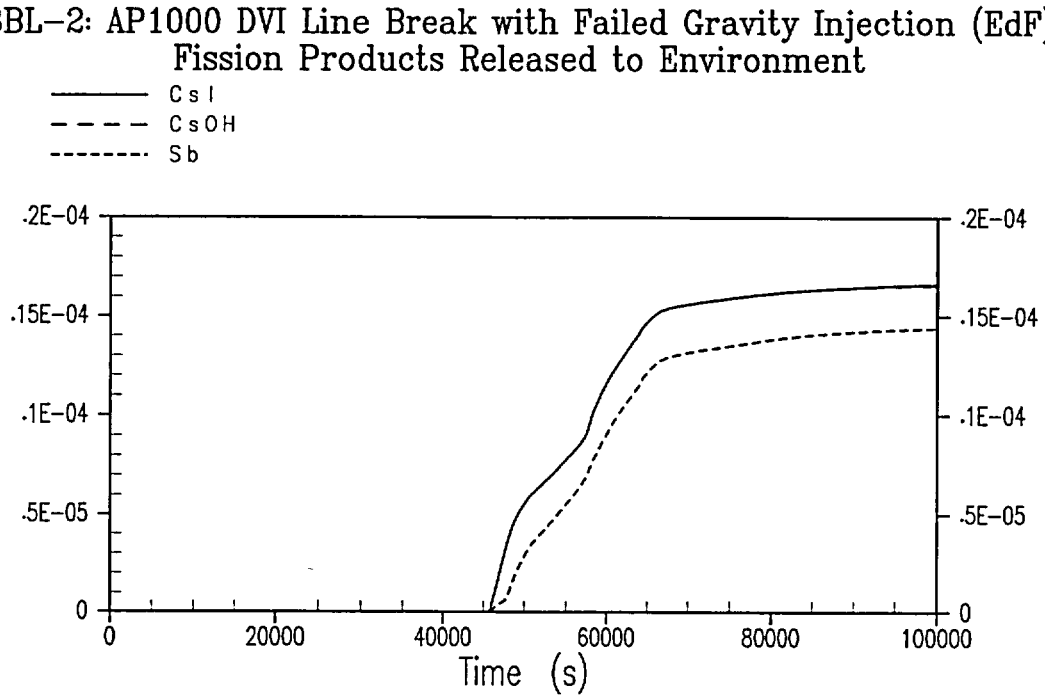

Figure 34-152

Case 3BL-2: Mass Fraction of Fission Products Released to Environment

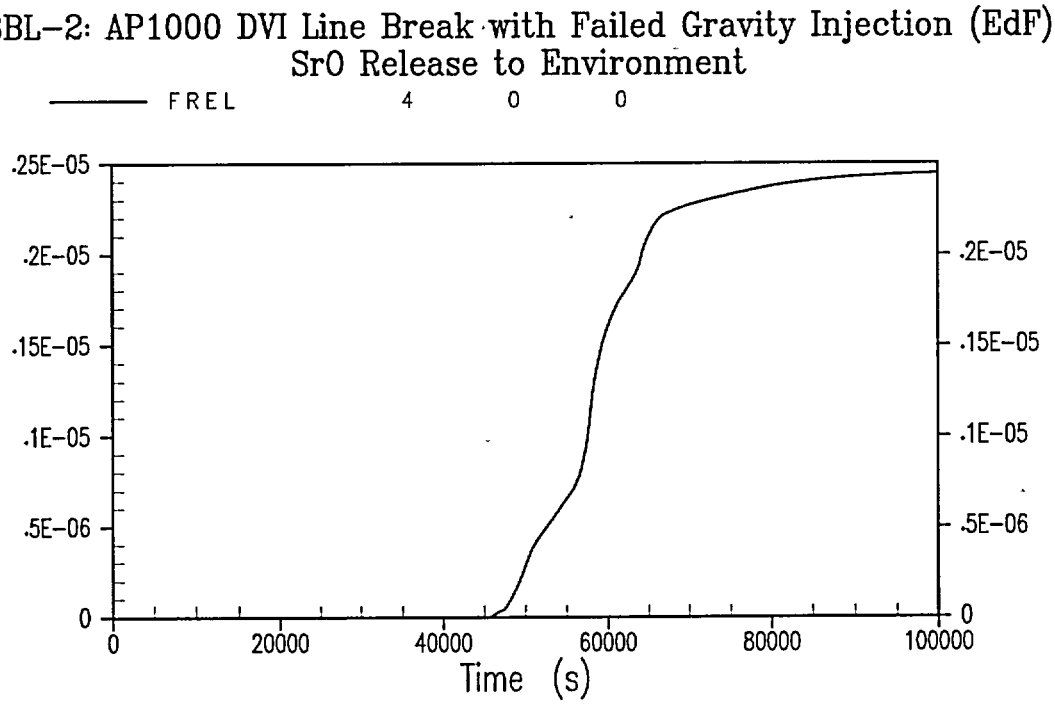

Figure 34-153

Case 3BL-2: Mass Fraction of SrO Released to Environment

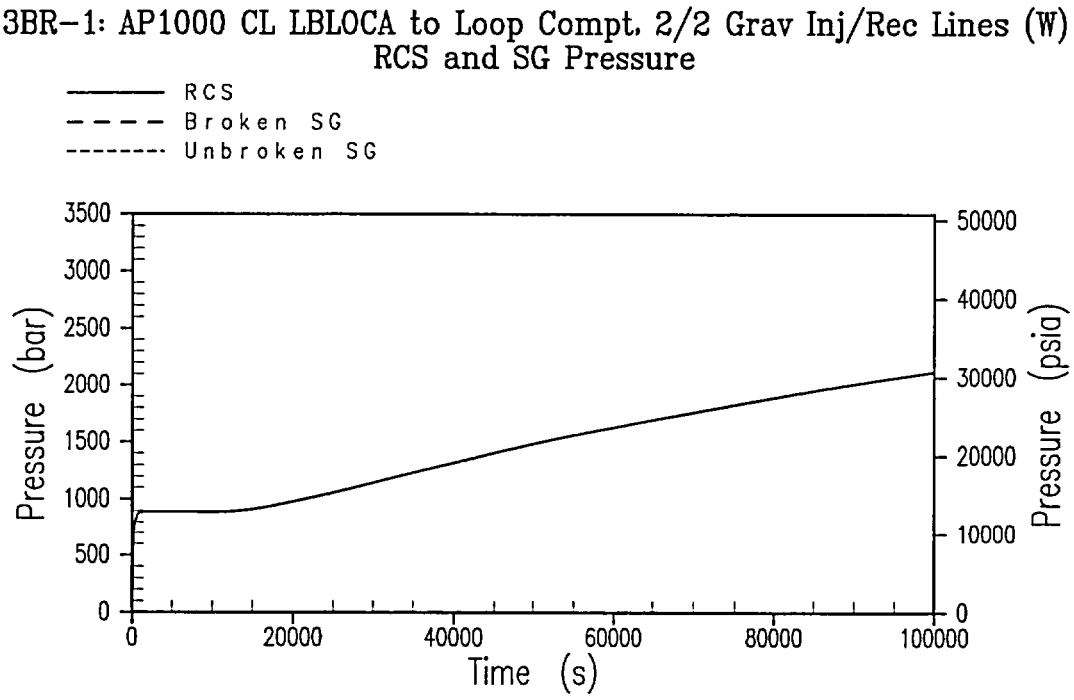

Figure 34-154

Case 3BR-1: RCS and Steam Generator Pressure

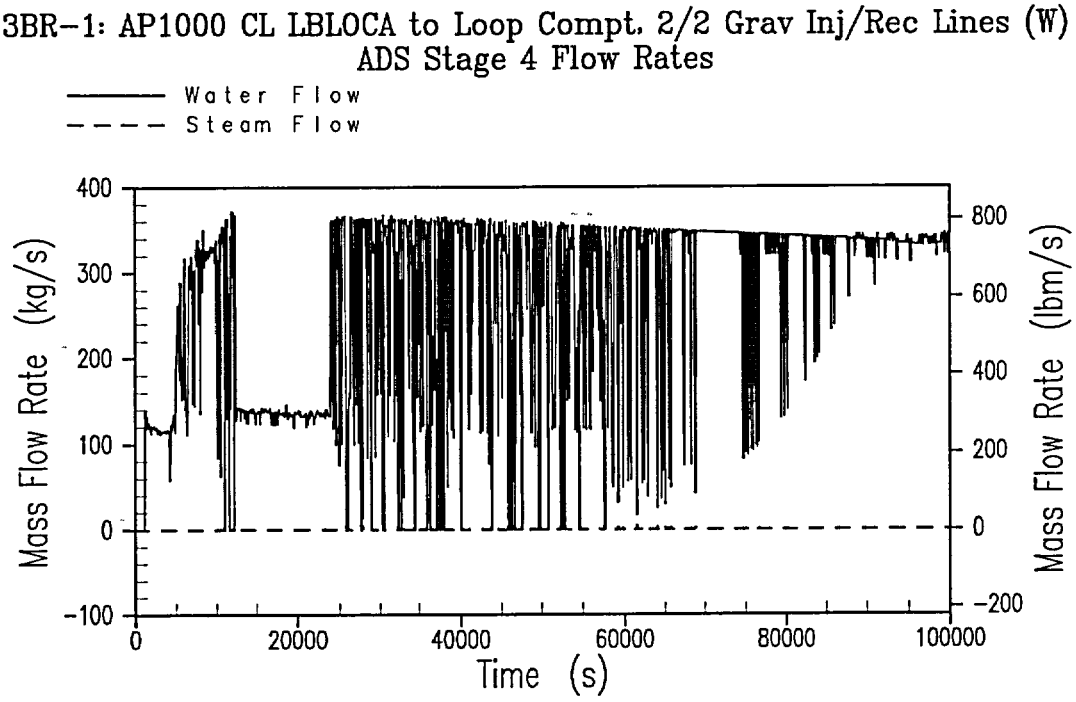

Figure 34-155

Case 3BR-1: ADS Stage 4 Flow Rates

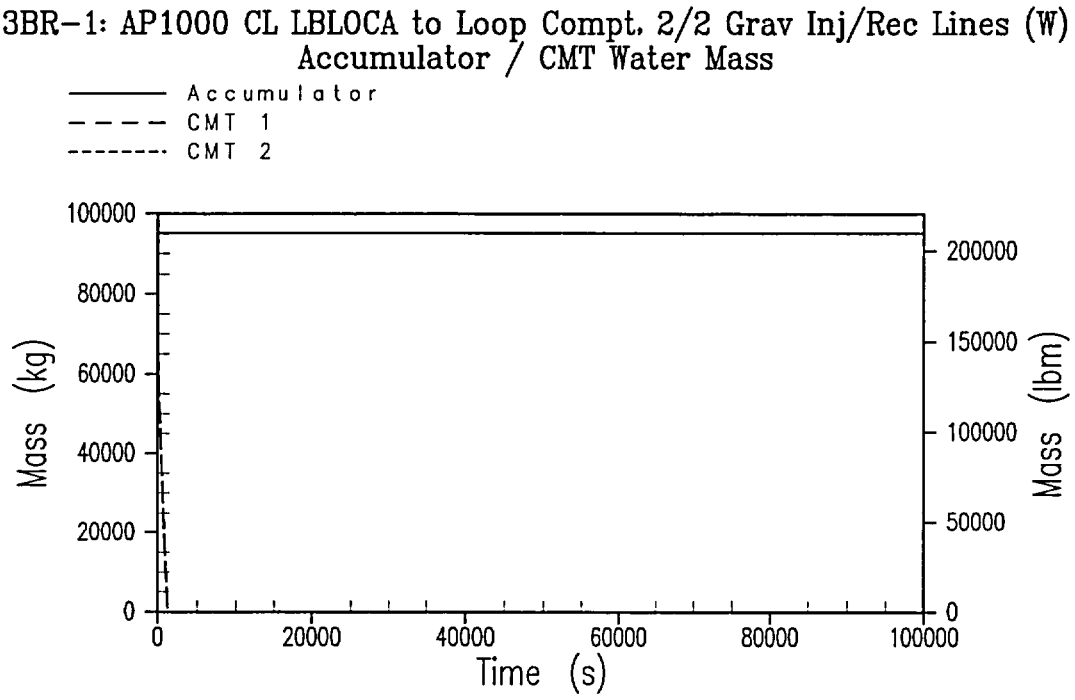

Figure 34-156

Case 3BR-1: Accumulator / CMT Water Mass

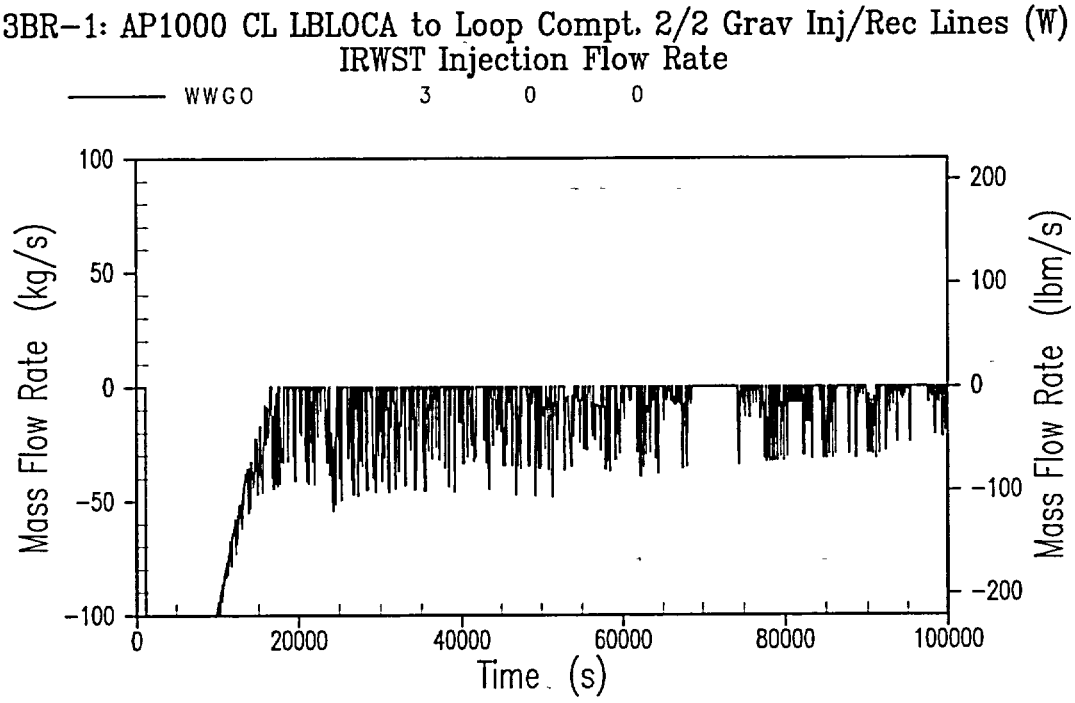

Figure 34-157

Case 3BR-1: IRWST Injection Flow Rate

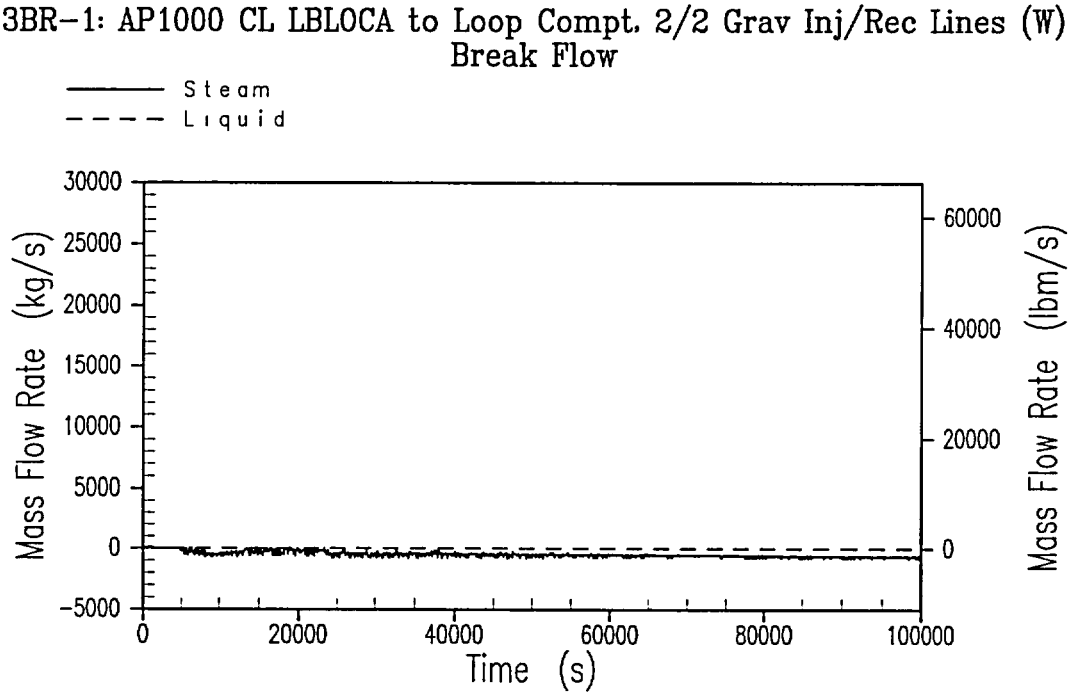

Figure 34-158

Case 3BR-1: Break Flow Rate

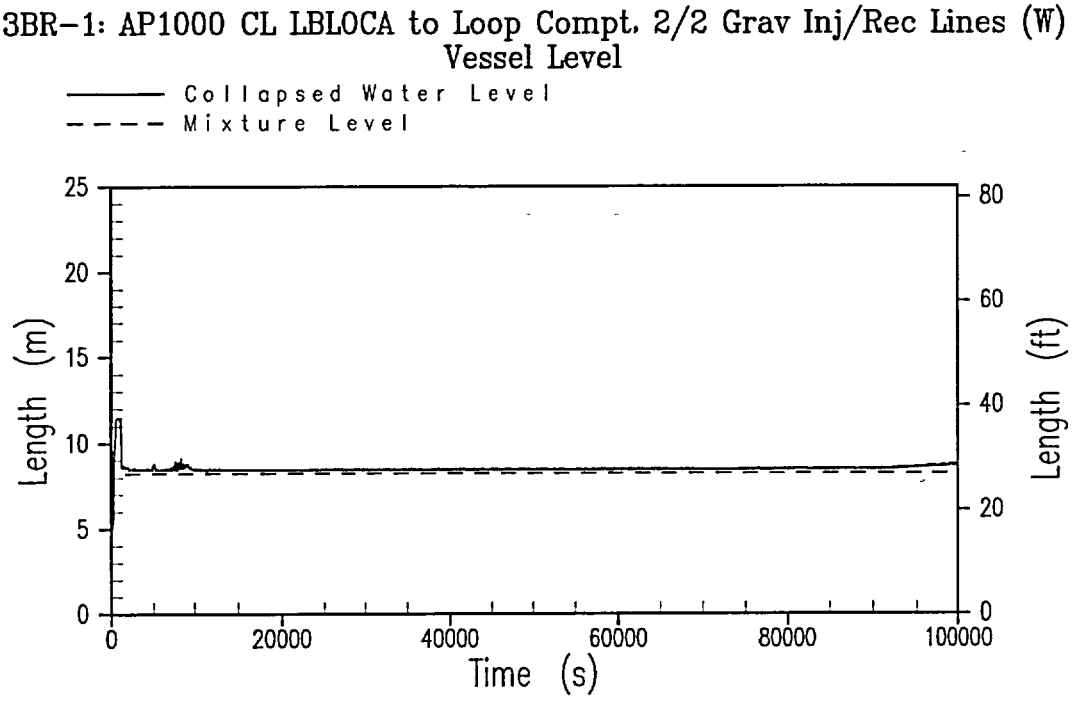

Figure 34-159

Case 3BR-1: Reactor Vessel Water Level

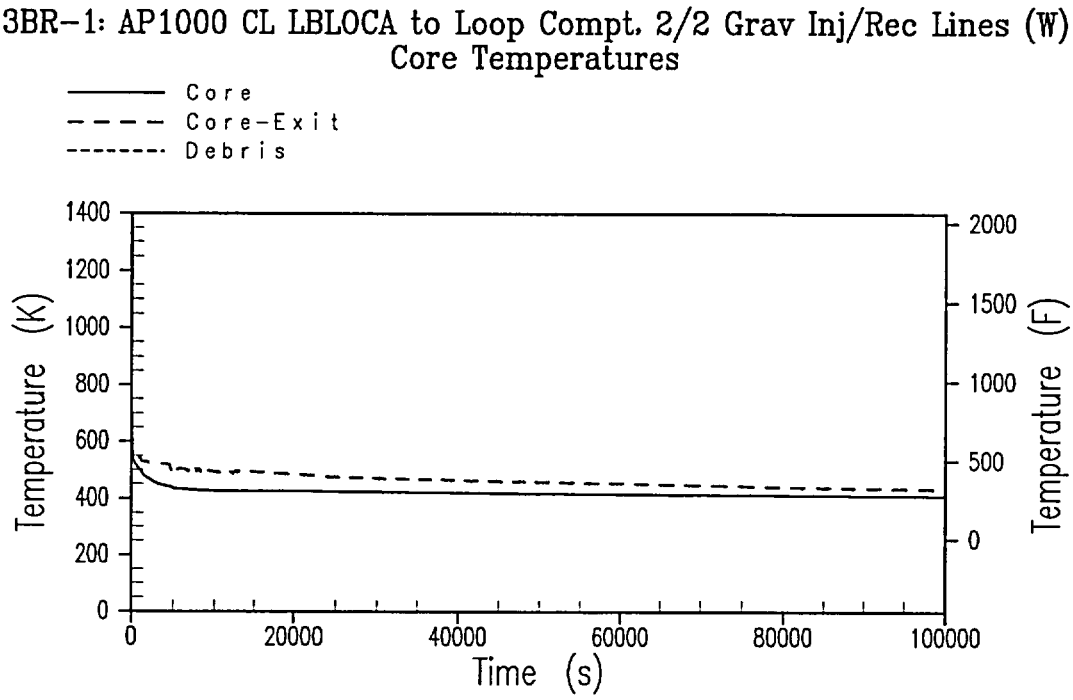

Figure 34-160

Case 3BR-1: Core Temperatures

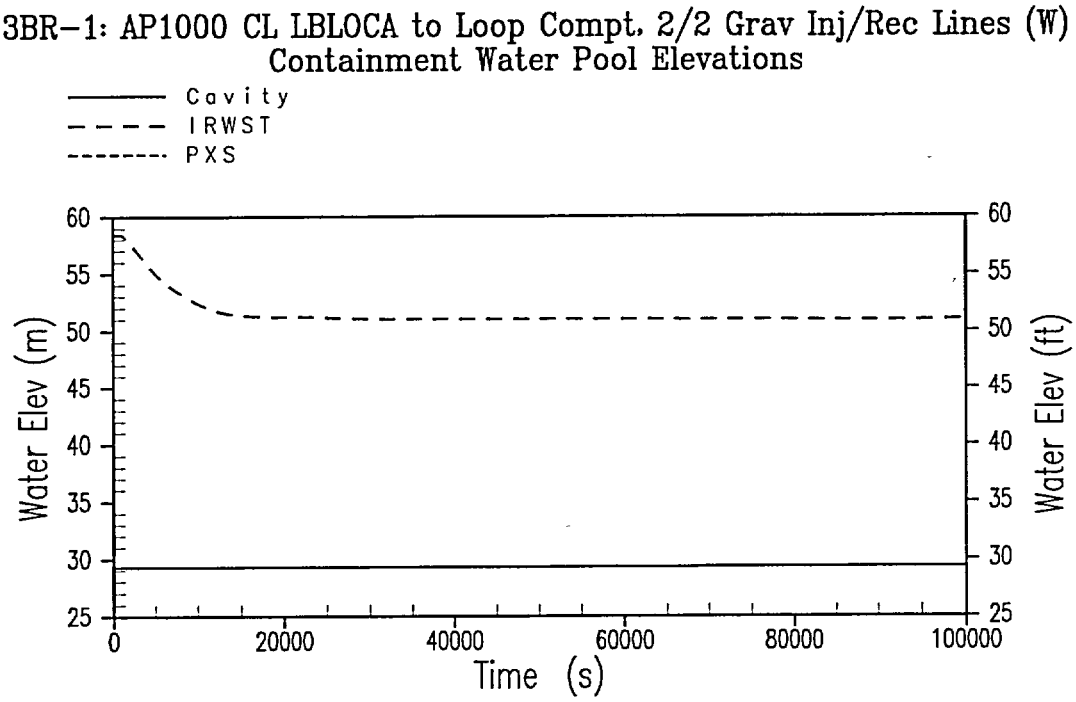

Figure 34-161

Case 3BR-1: Containment Water Pool Elevations

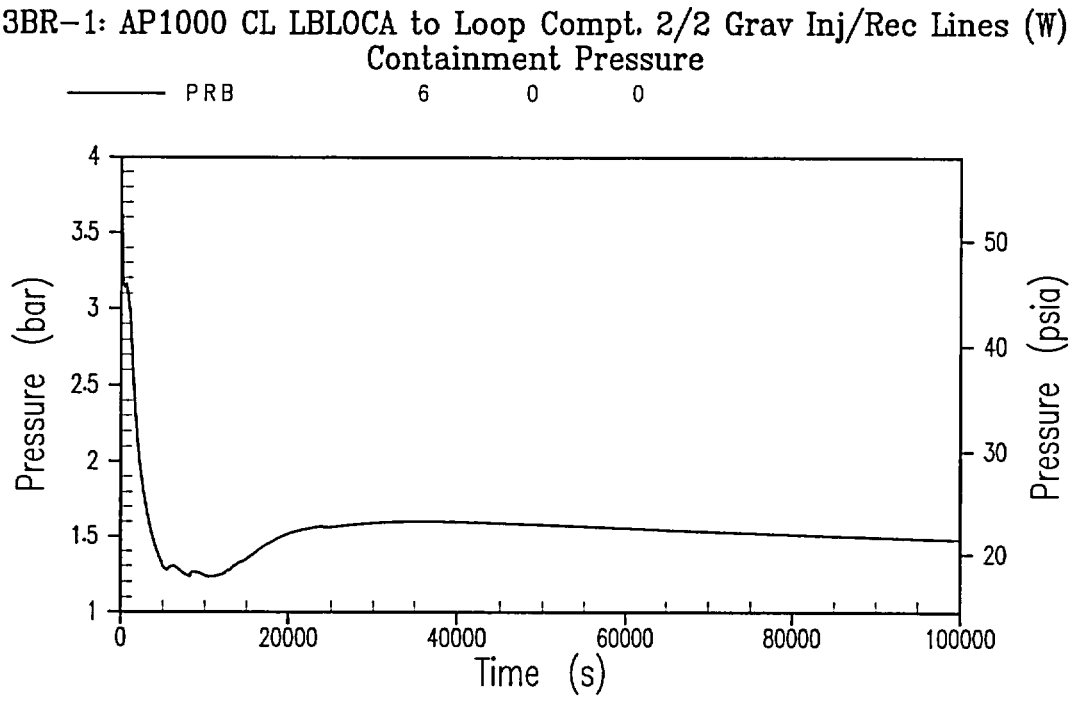

Figure 34-162

Case 3BR-1: Containment Pressure

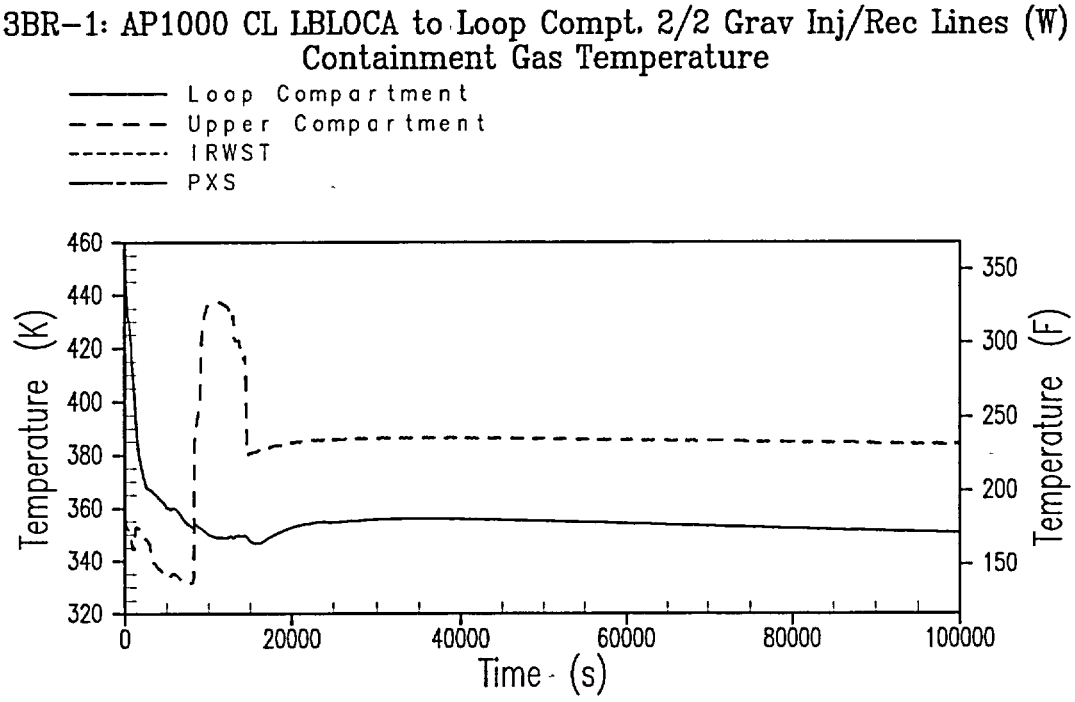

Figure 34-163

Case 3BR-1: Containment Gas Temperature

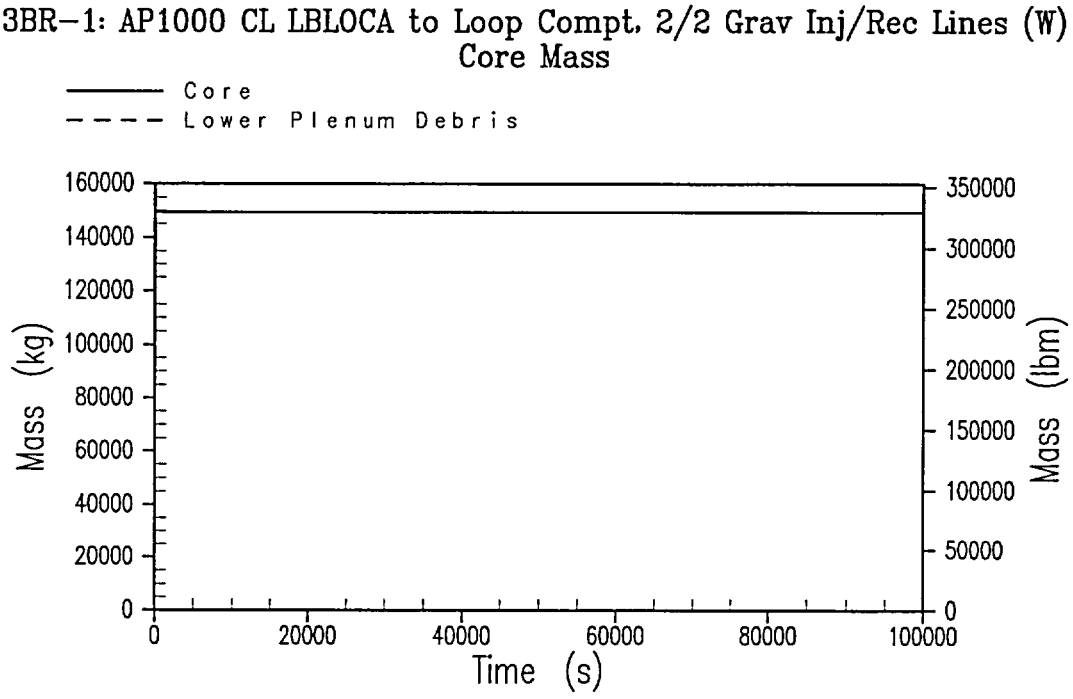

Figure 34-164

Case 3BR-1: Core Mass

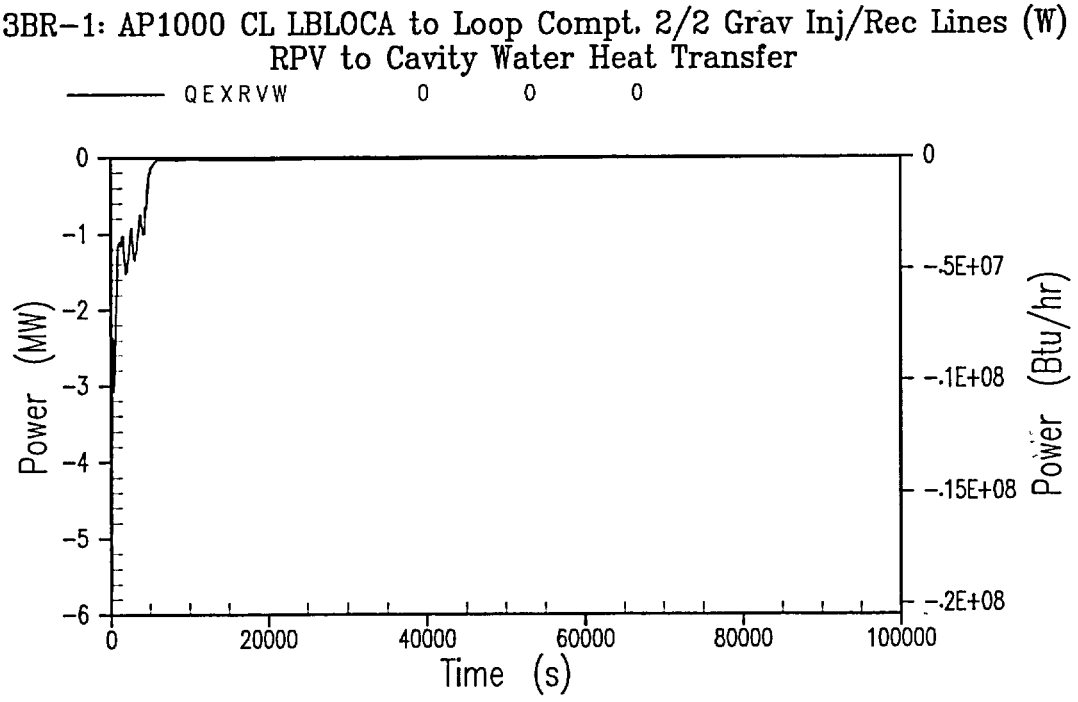

Figure 34-165

Case 3BR-1: Reactor Pressure Vessel to Cavity Water Heat Transfer

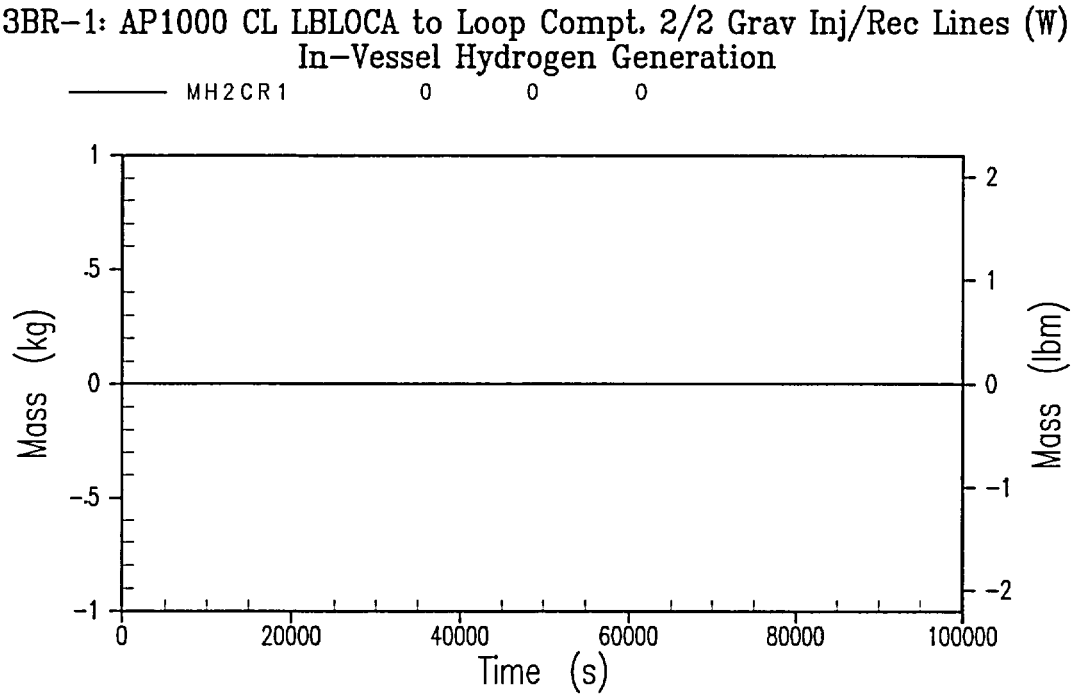

Figure 34-166

Case 3BR-1: In-Vessel Hydrogen Generation

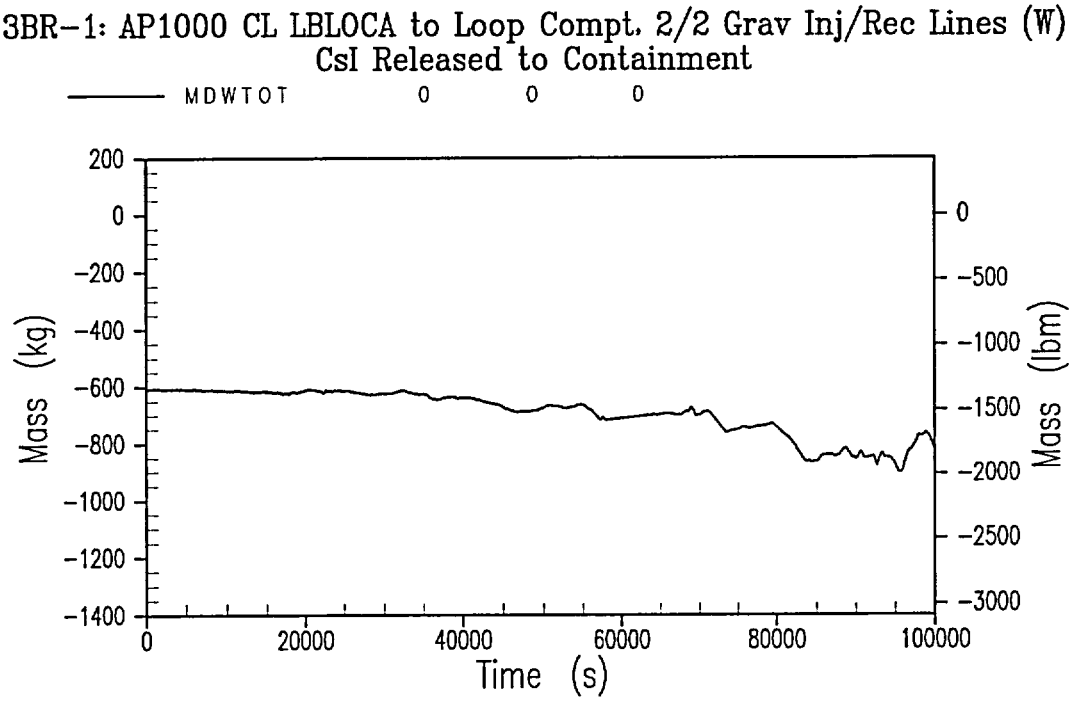

Figure 34-167

Case 3BR-1: Mass Fraction of CsI Released to Containment

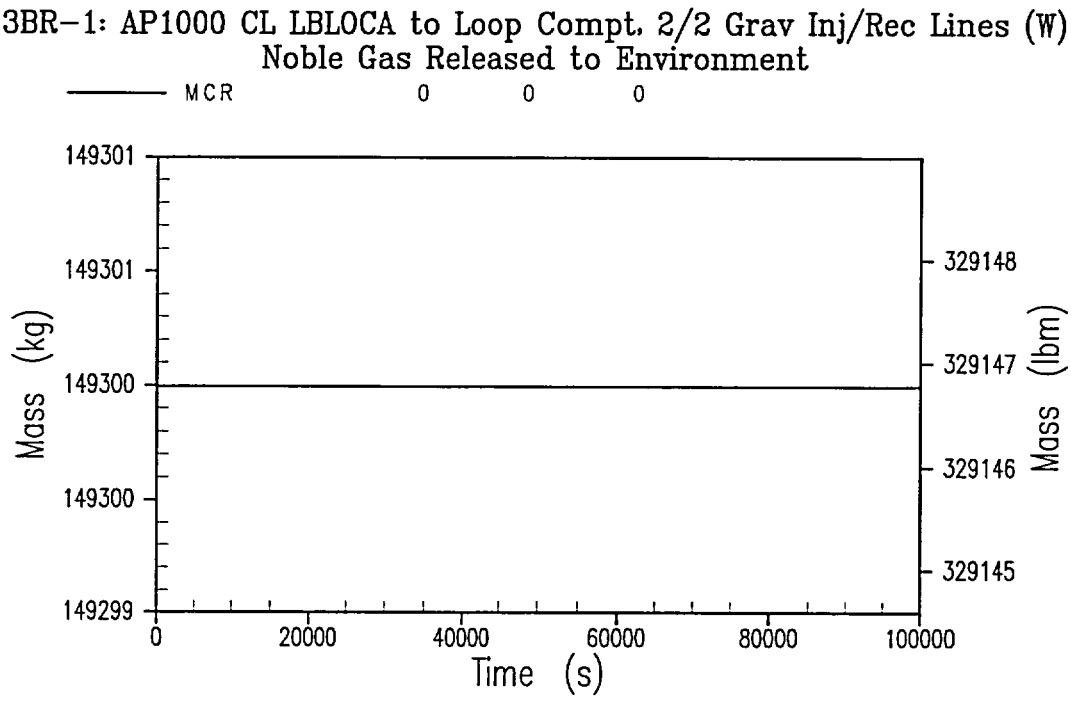

Figure 34-168

Case 3BR-1: Mass Fraction of Noble Gases Released to Environment

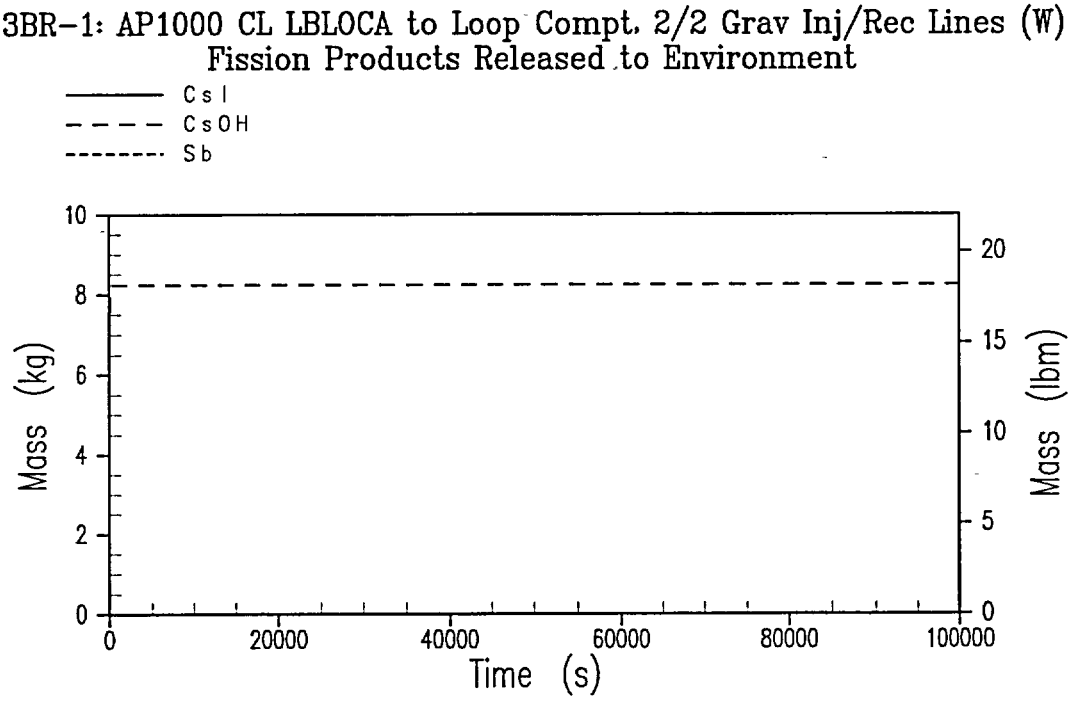

Figure 34-169

Case 3BR-1: Mass Fraction of Fission Products Released to Environment

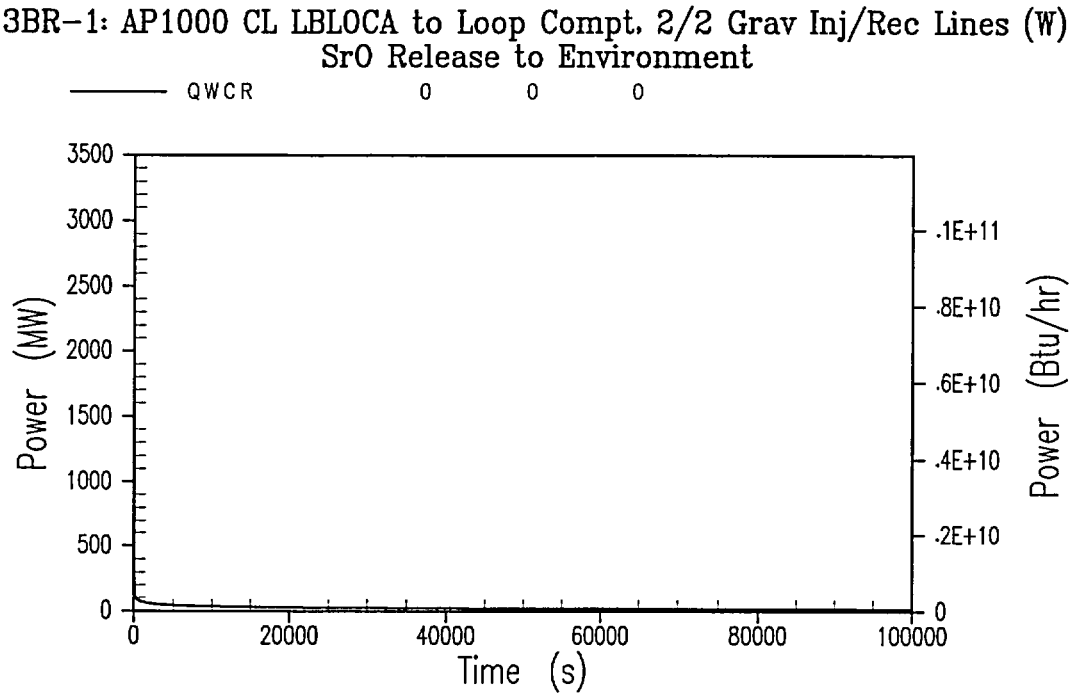

Figure 34-170

Case 3BR-1: Mass Fraction of SrO Released to Environment

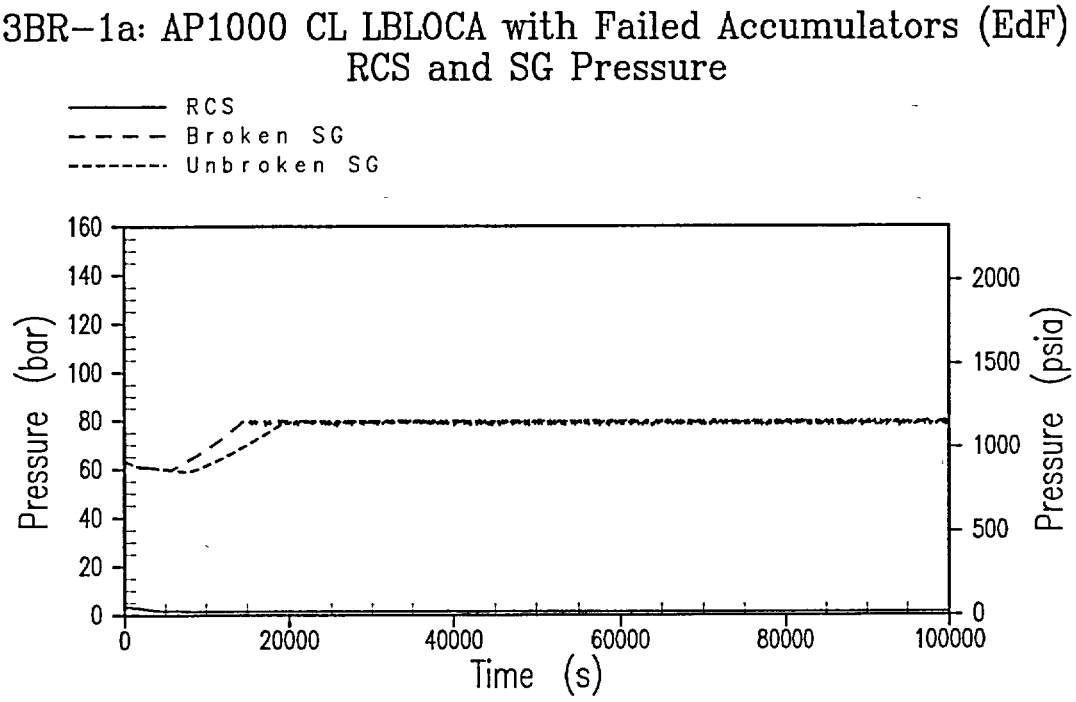

Figure 34-171

Case 3BR-1a: RCS and Steam Generator Pressure

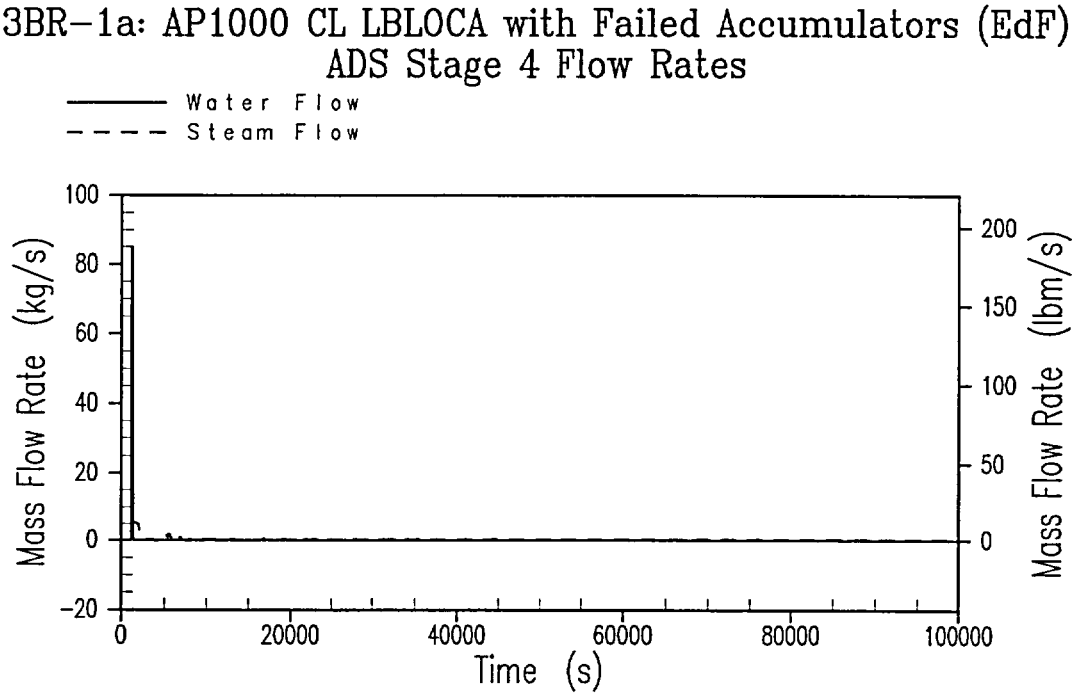

Figure 34-172

Case 3BR-1a: ADS Stage 4 Flow Rates

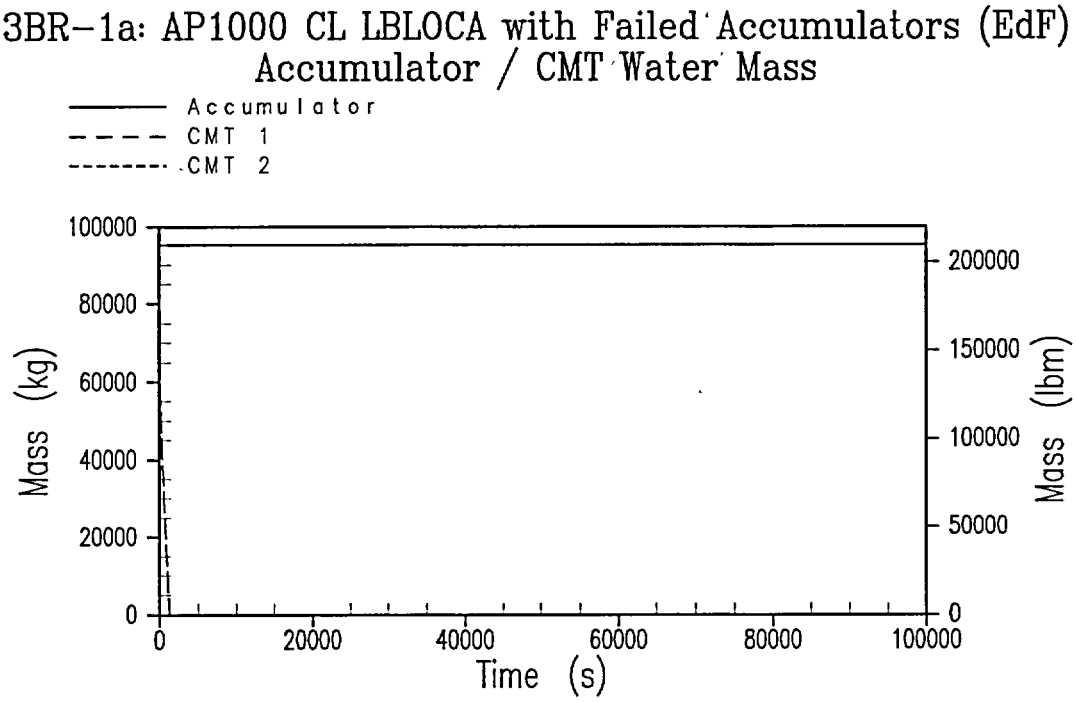

Figure 34-173

Case 3BR-1a: Accumulator / CMT Water Mass

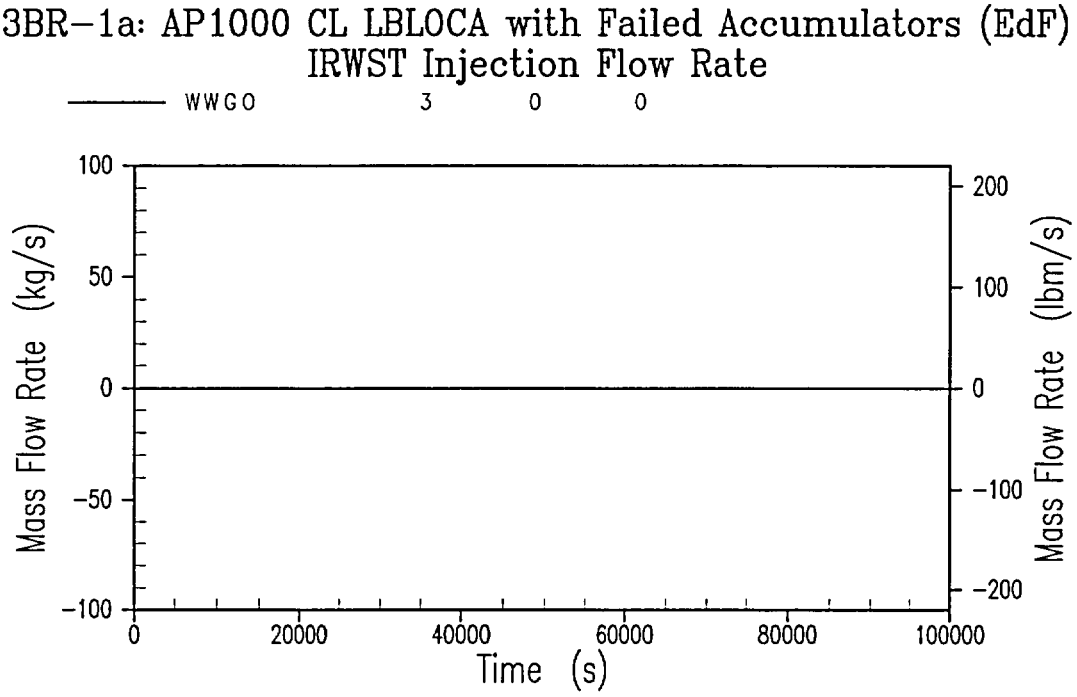

Figure 34-174

Case 3BR-1a: IRWST Injection Flow Rate

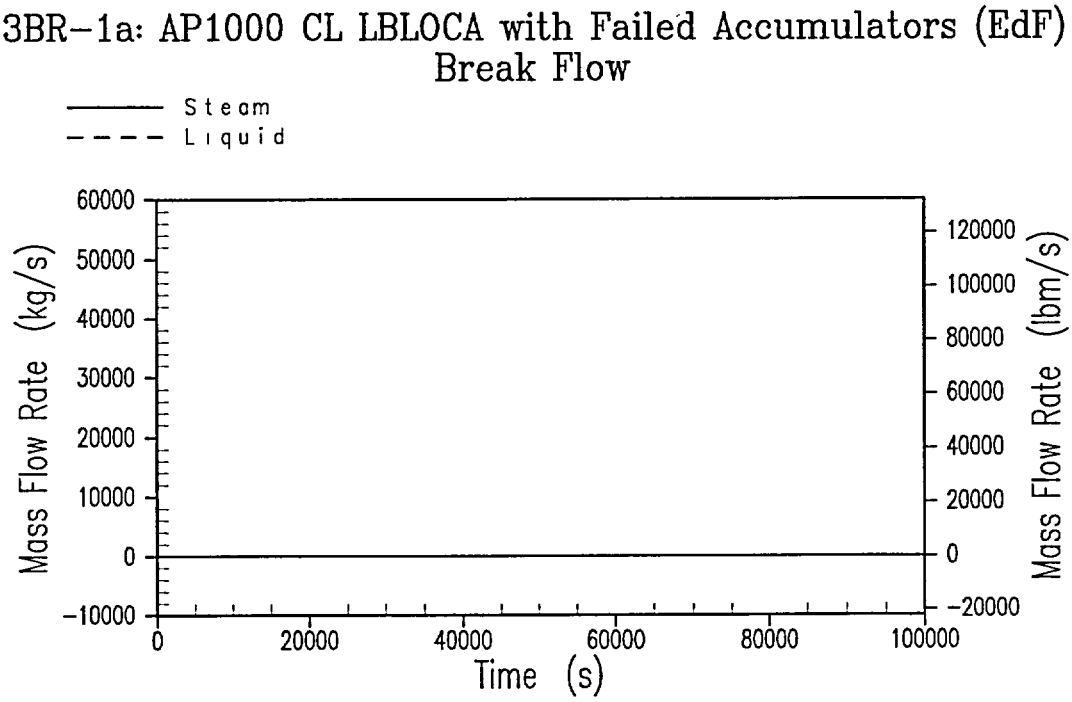

Figure 34-175

Case 3BR-1a: Break Flow Rate

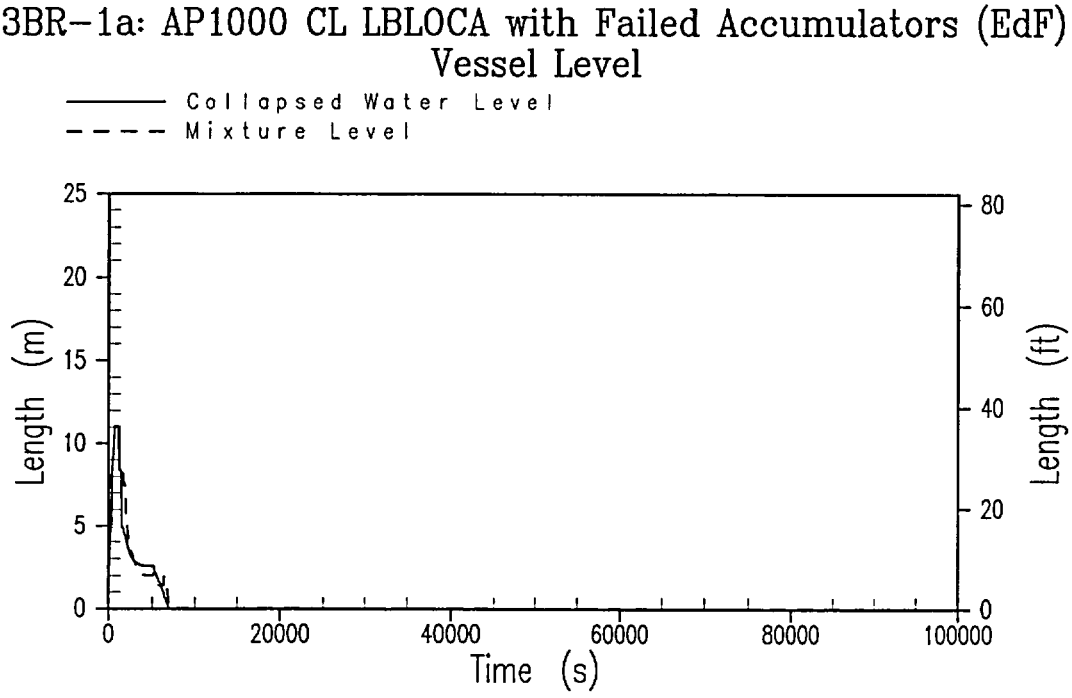

Figure 34-176

Case 3BR-1a: Reactor Vessel Water Level

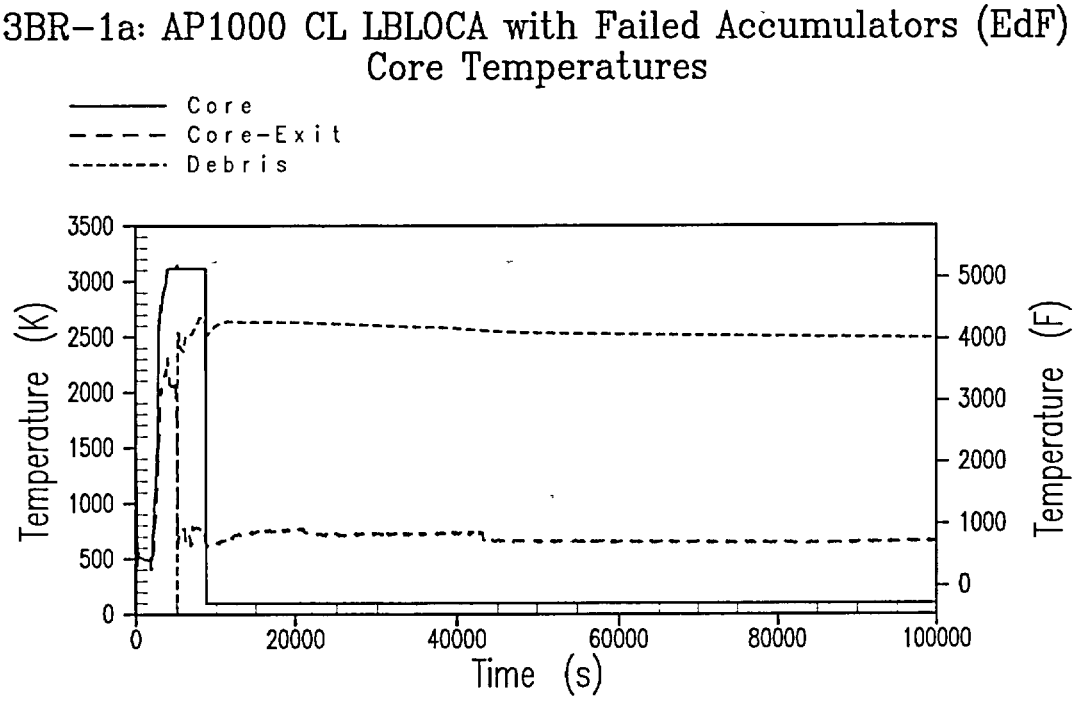

Figure 34-177

Case 3BR-1a: Core Temperatures

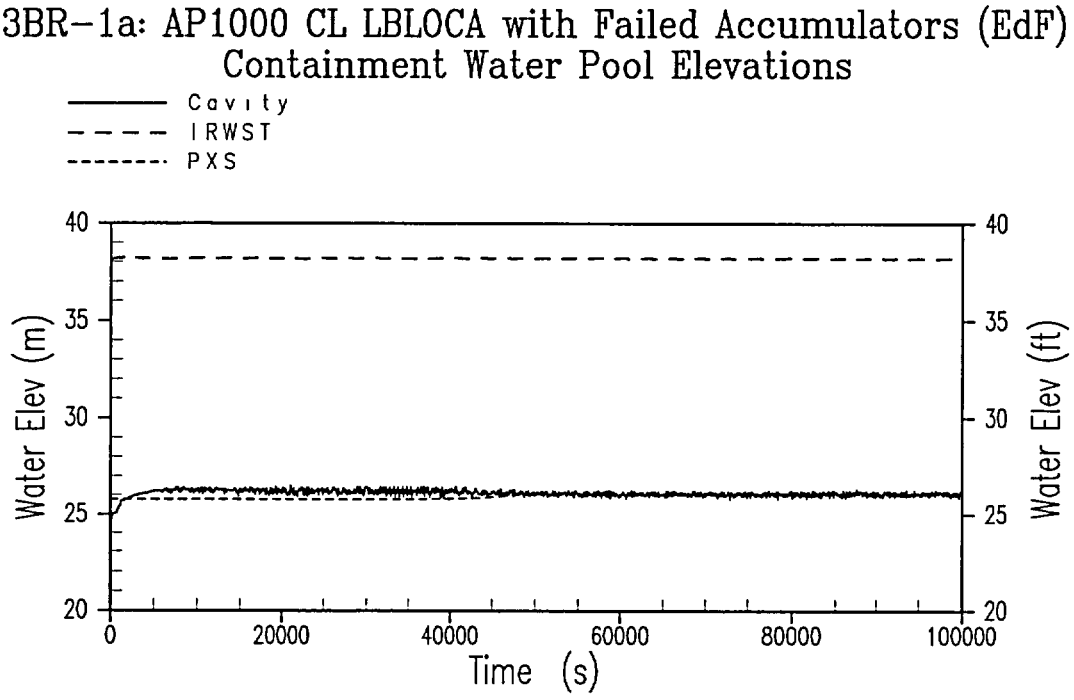

Figure 34-178

Case 3BR-1a: Containment Water Pool Elevations

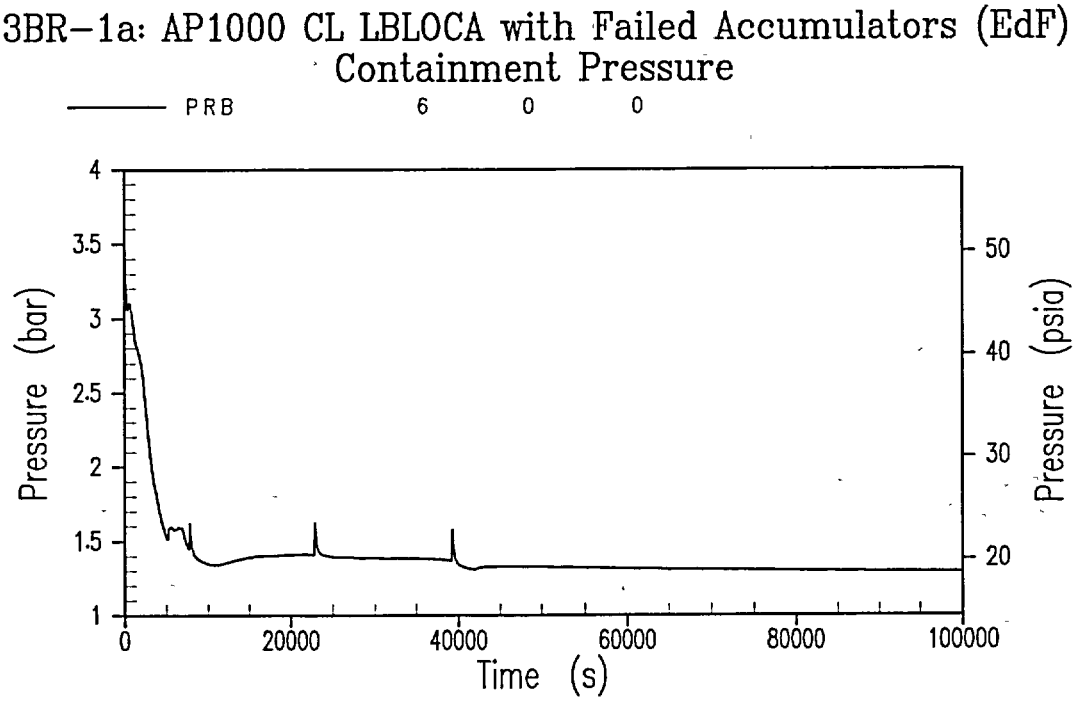

Figure 34-179

Case 3BR-1a: Containment Pressure

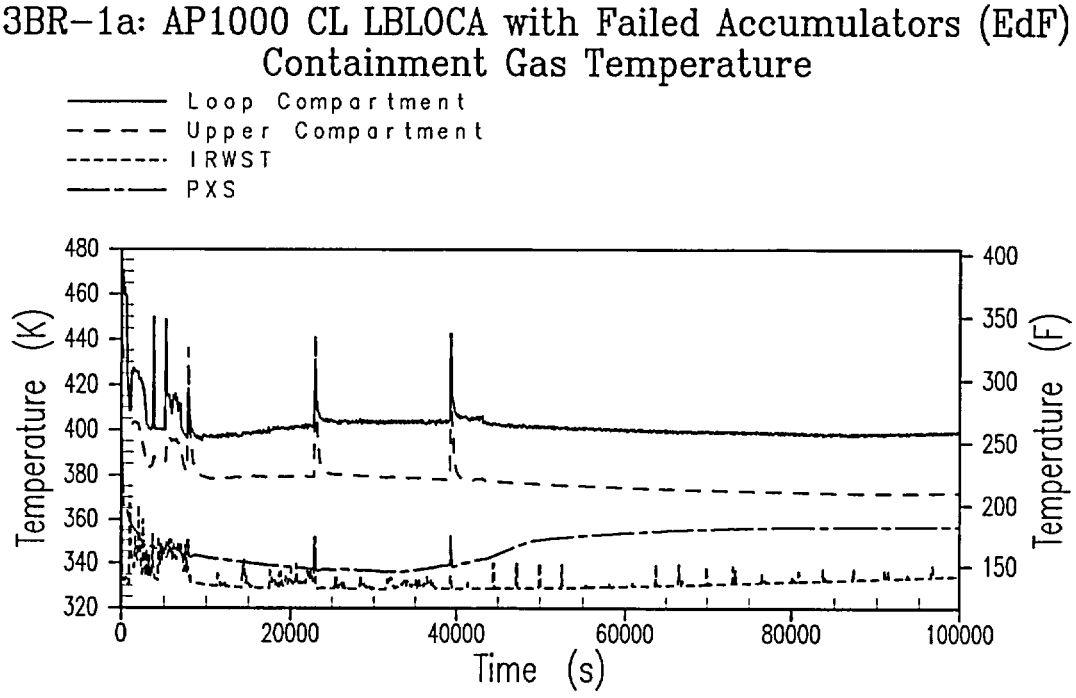

Figure 34-180

Case 3BR-1a: Containment Gas Temperature

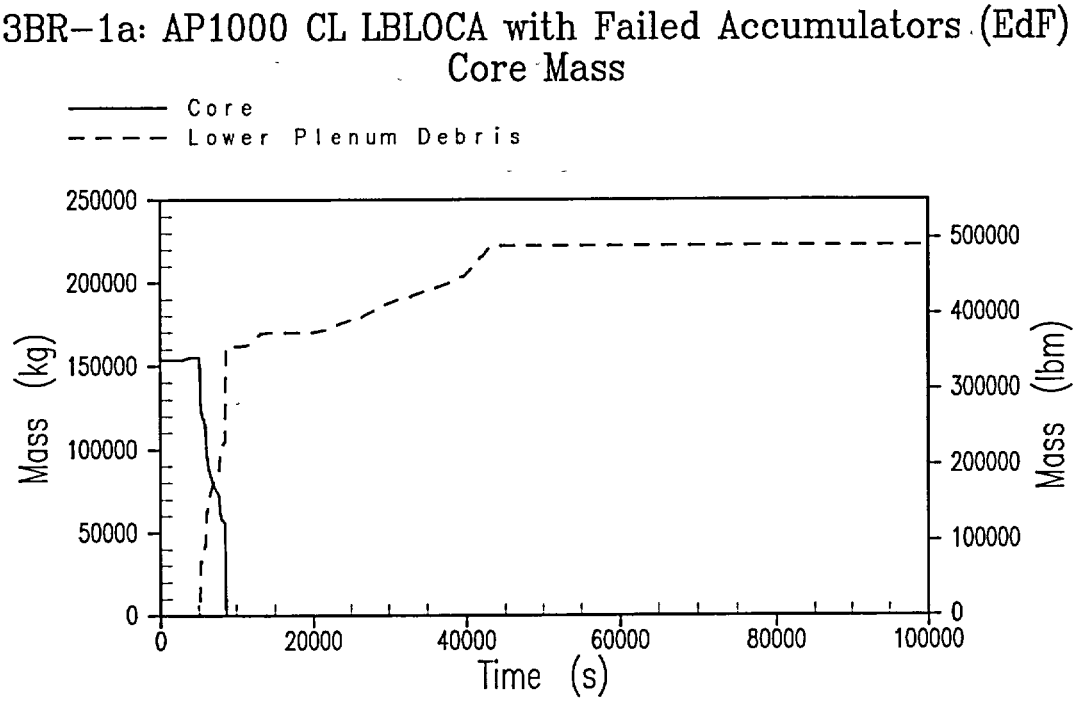

Figure 34-181

Case 3BR-1a: Core Mass

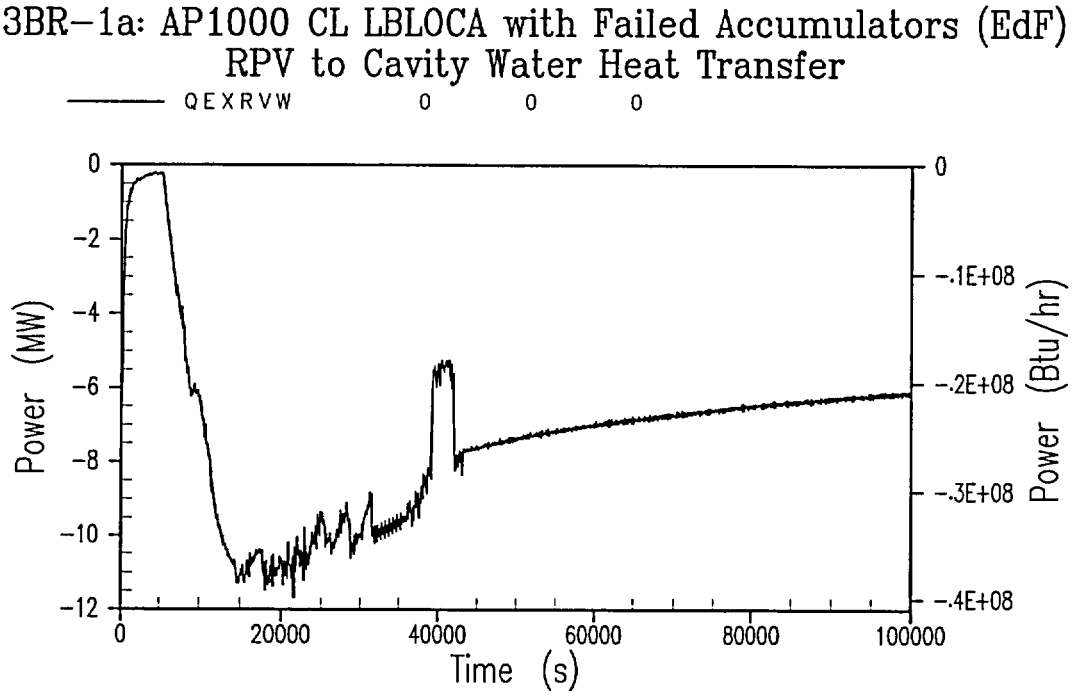

Figure 34-182

Case 3BR-1a: Reactor Pressure Vessel to Cavity Water Heat Transfer

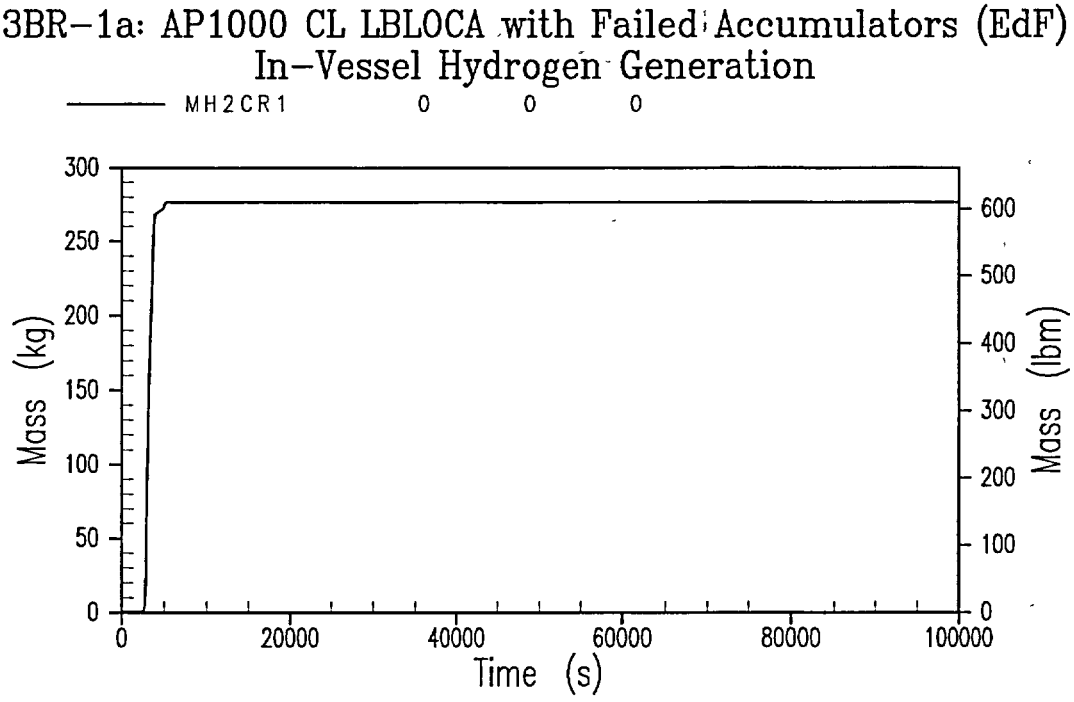

Figure 34-183

Case 3BR-1a: In-Vessel Hydrogen Generation

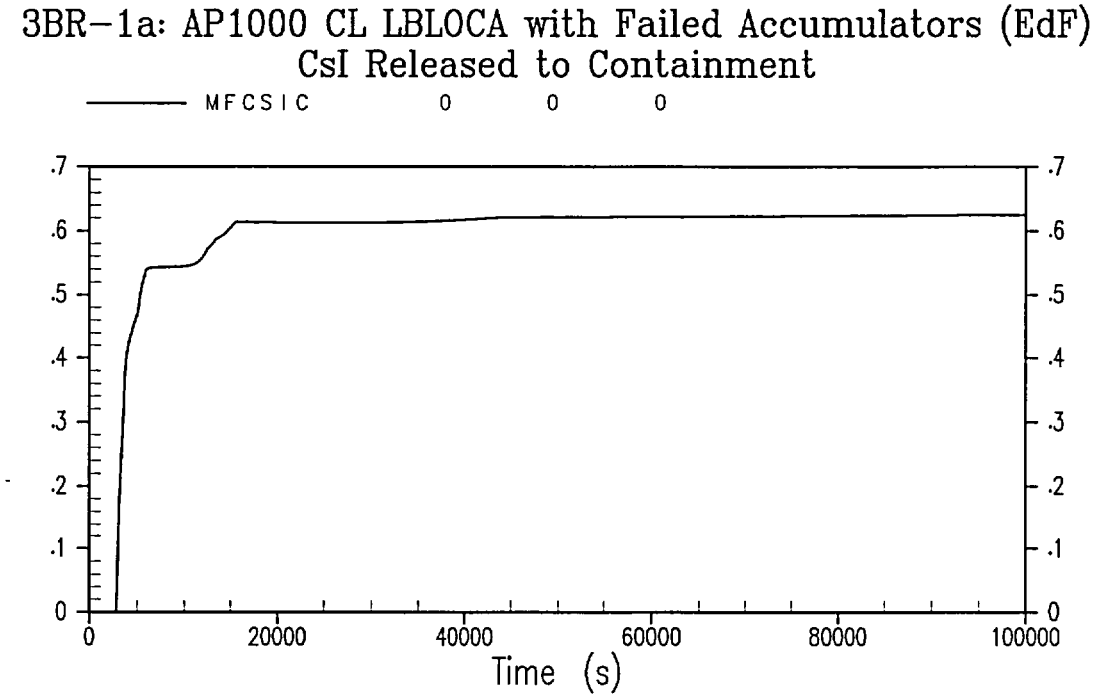

Figure 34-184

Case 3BR-1a: Mass Fraction of CsI Released to Containment

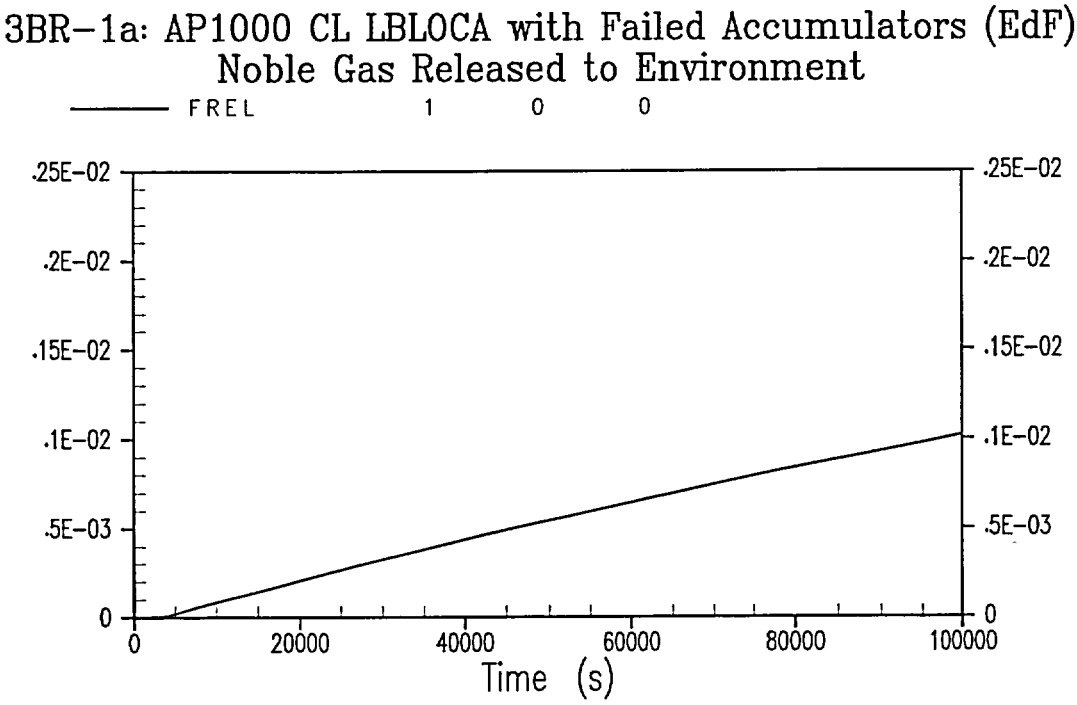

Figure 34-185

Case 3BR-1a: Mass Fraction of Noble Gases Released to Environment

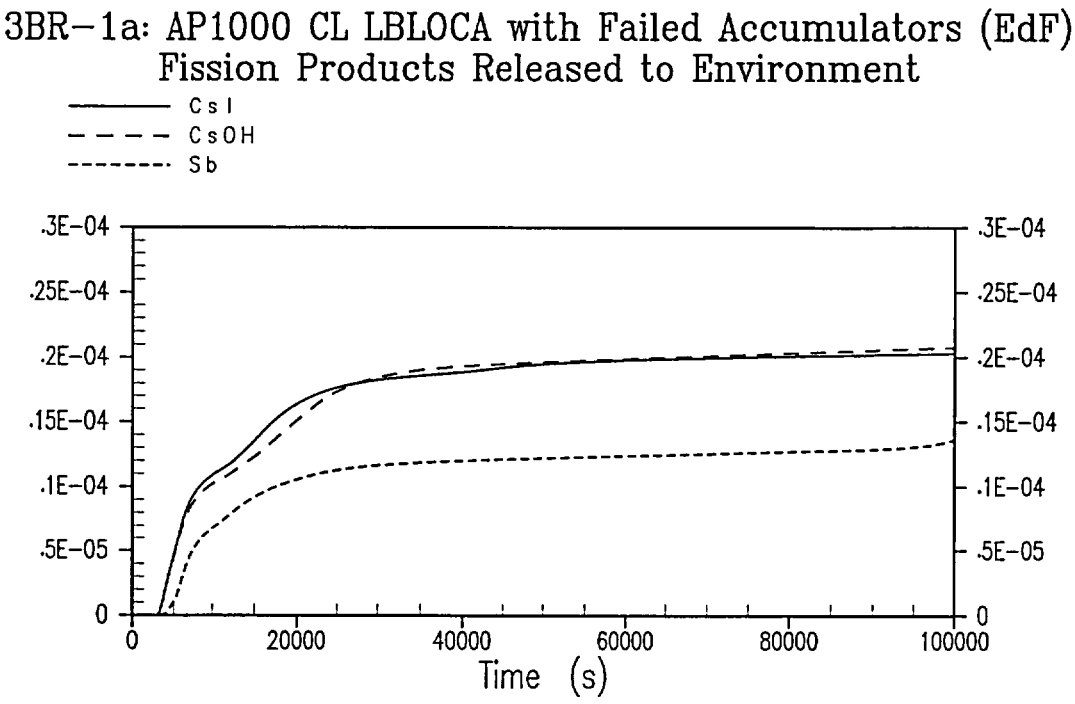

Figure 34-186

Case 3BR-1a: Mass Fraction of Fission Products Released to Environment

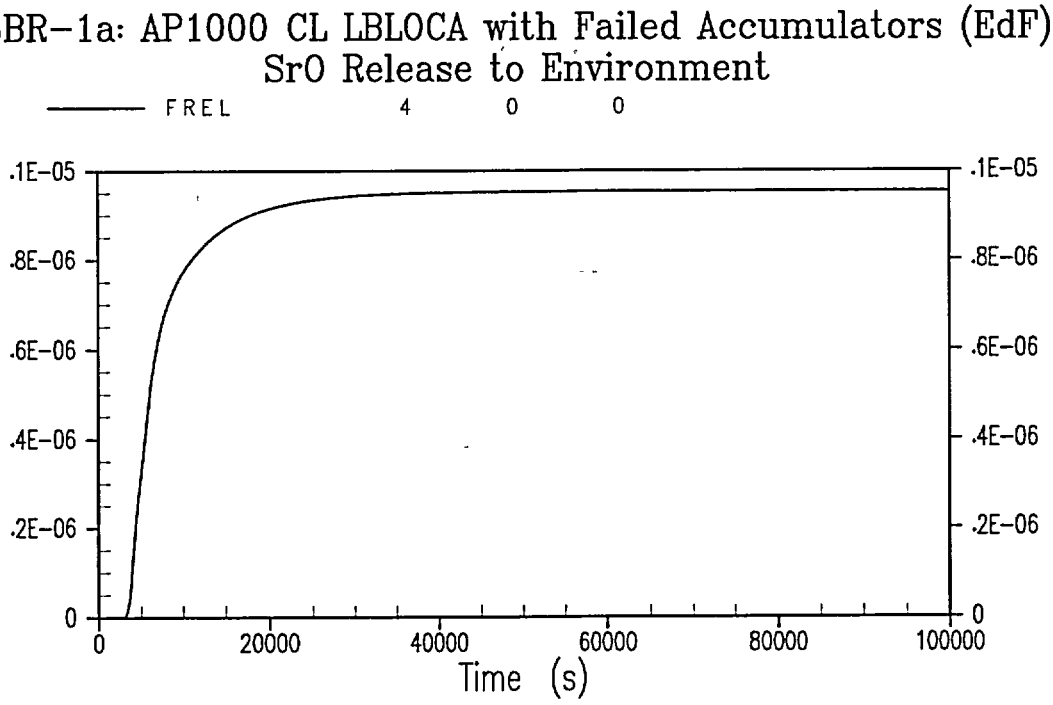

Figure 34-187

Case 3BR-1a: Mass Fraction of SrO Released to Environment

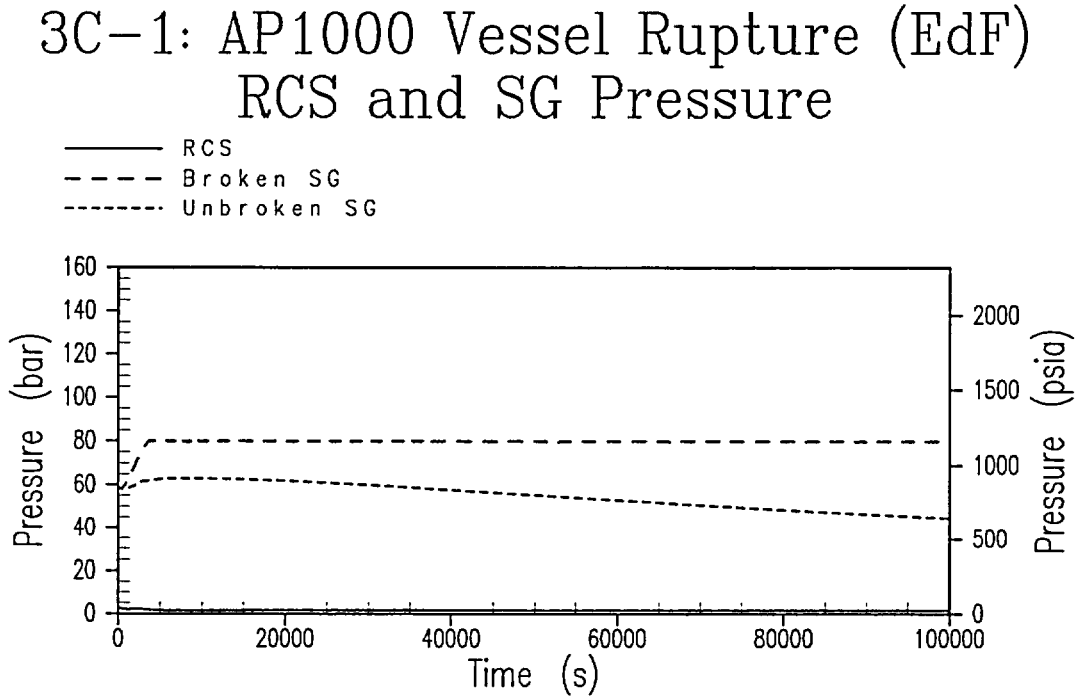

Figure 34-188

Case 3C-1: RCS and Steam Generator Pressure

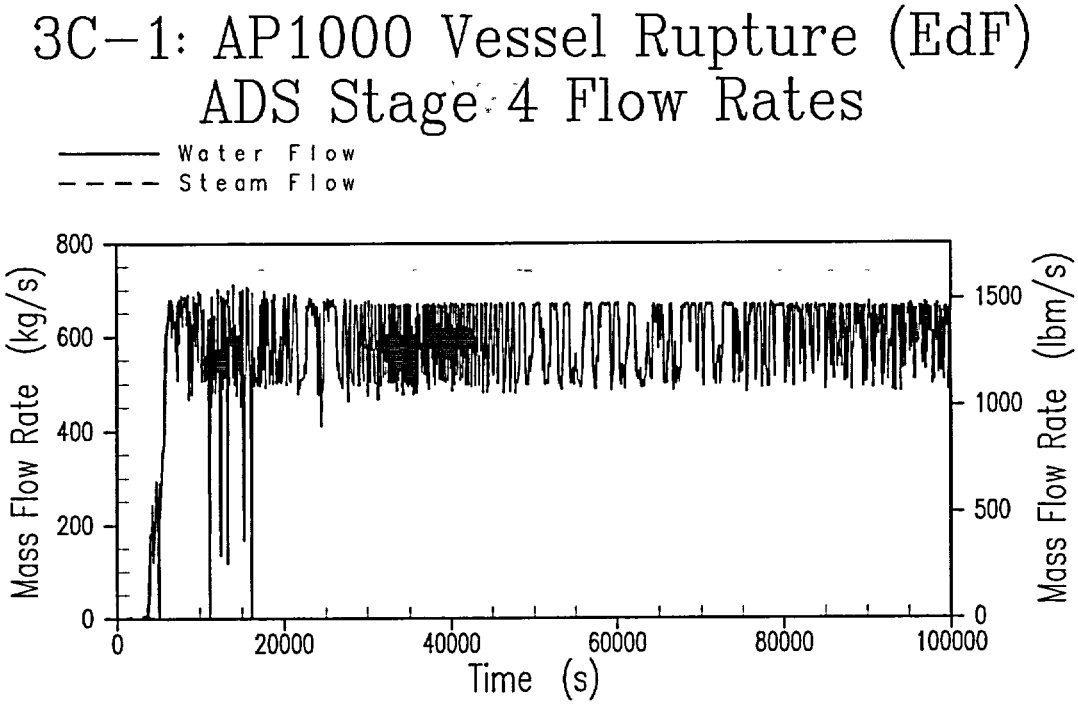

Figure 34-189

Case 3C-1: ADS Stage 4 Flow Rates

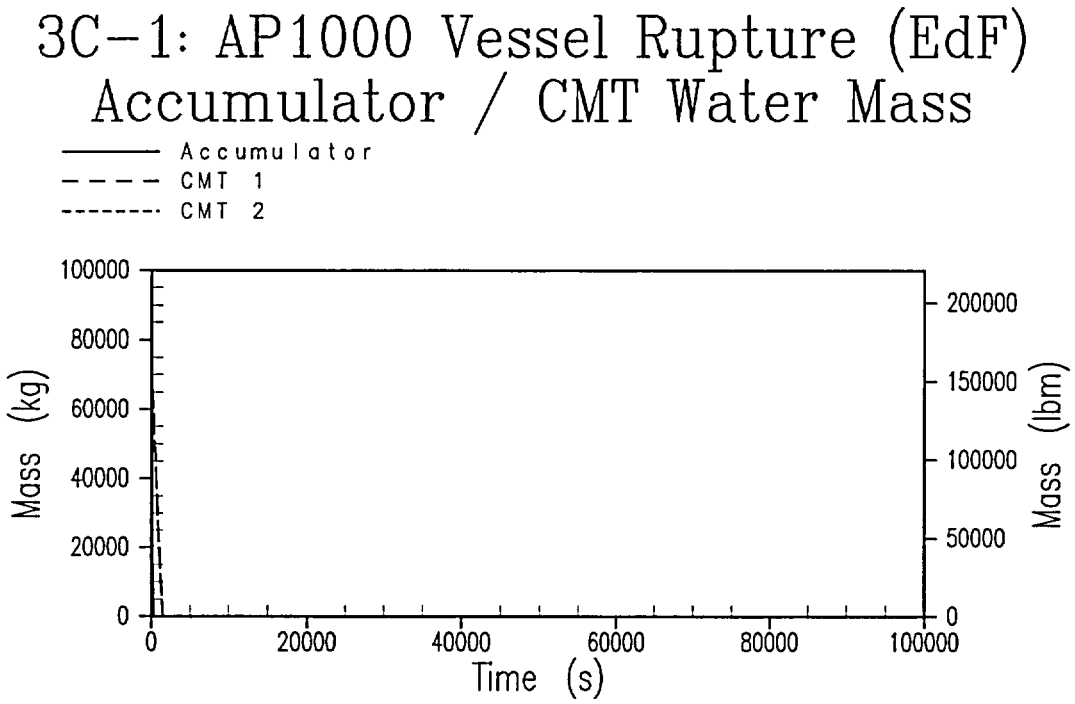

Figure 34-190

Case 3C-1: Accumulator / CMT Water Mass

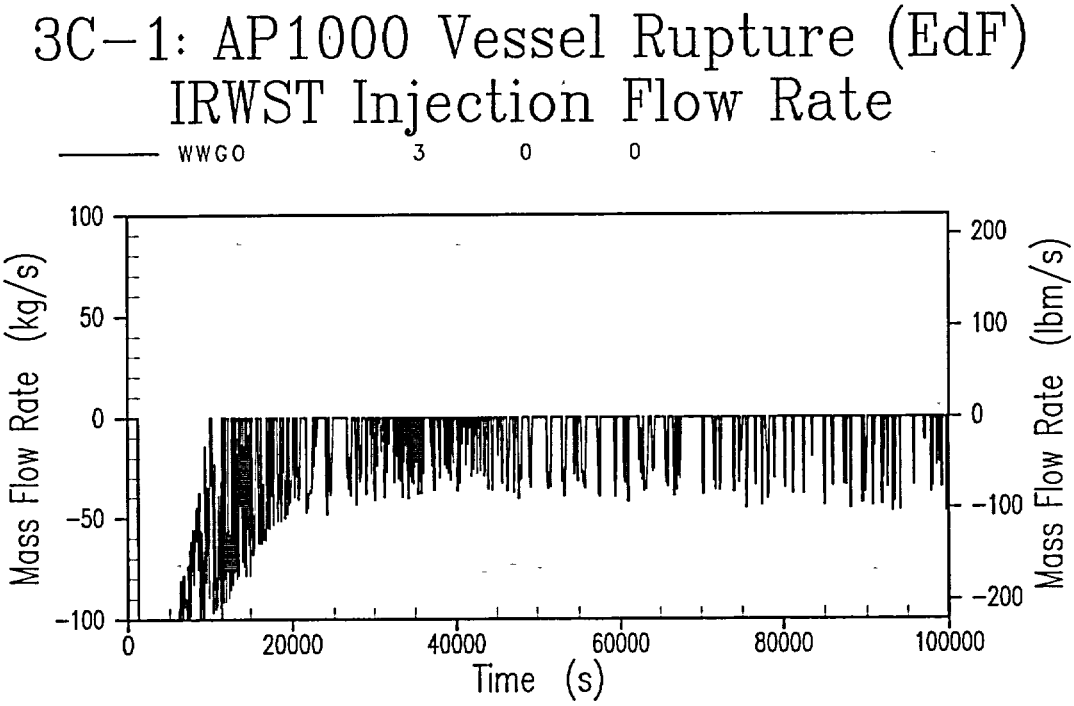

Figure 34-191

Case 3C-1: IRWST Injection Flow Rate

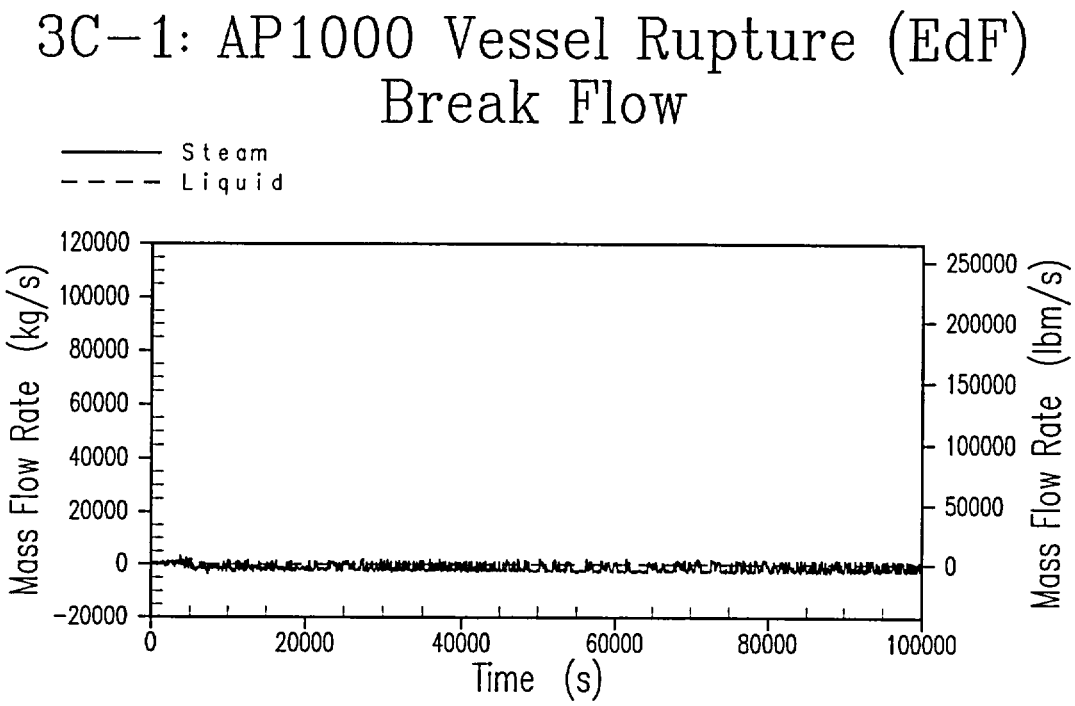

Figure 34-192

Case 3C-1: Break Flow Rate

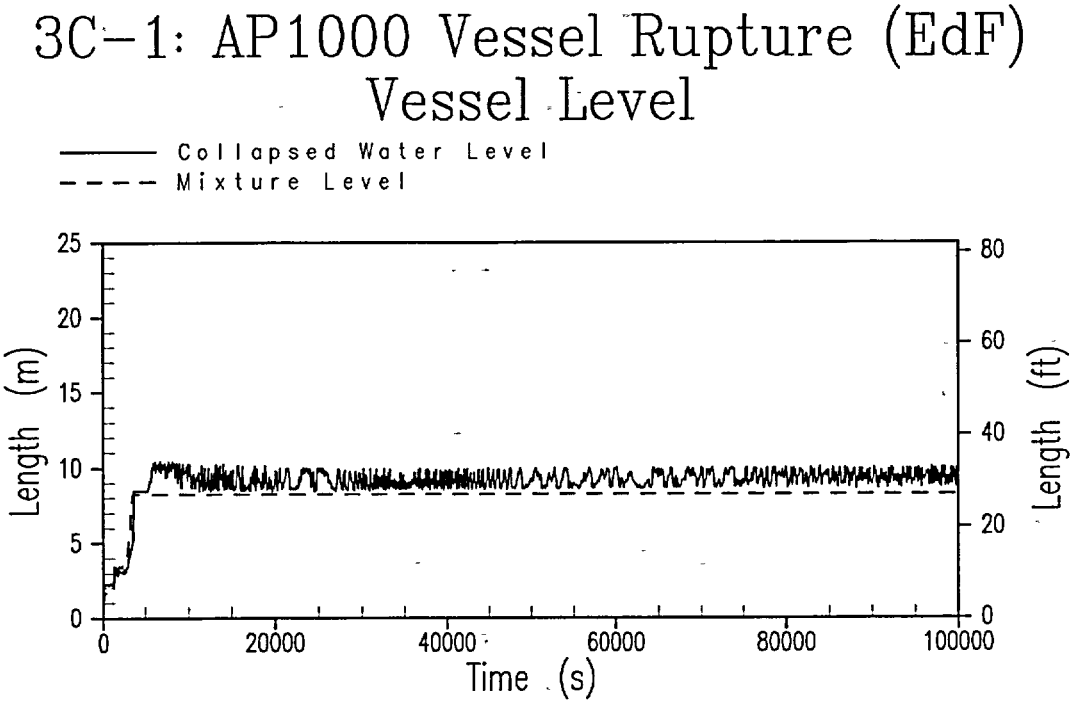

Figure 34-193

Case 3C-1: Reactor Vessel Water Level

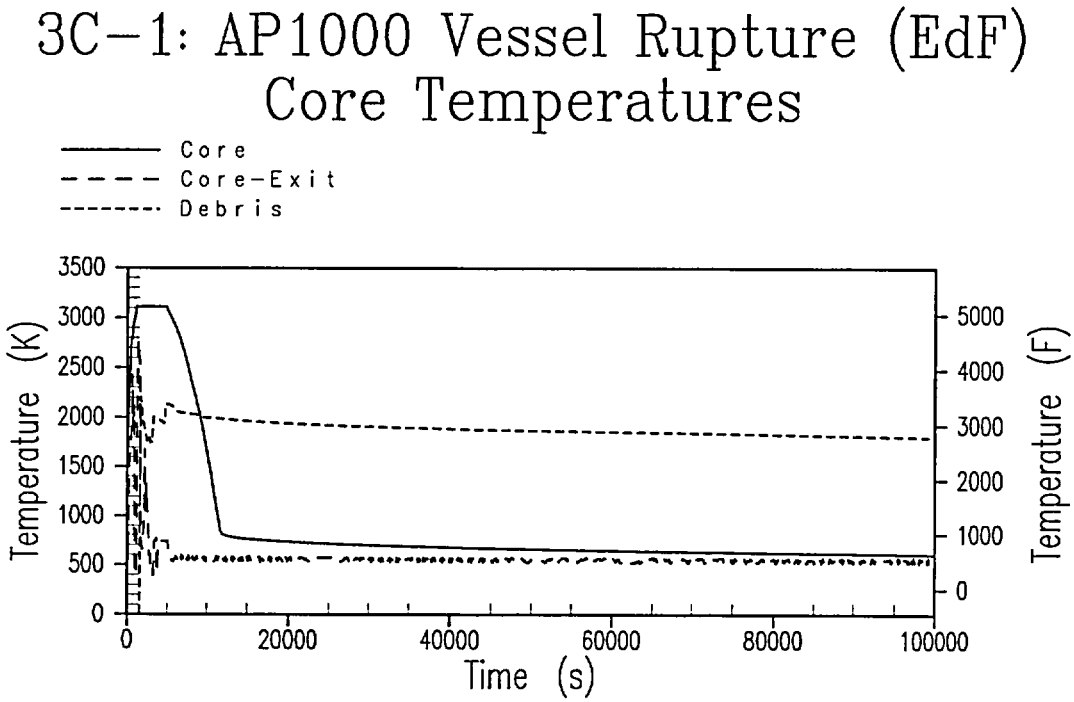

Figure 34-194

Case 3C-1: Core Temperatures

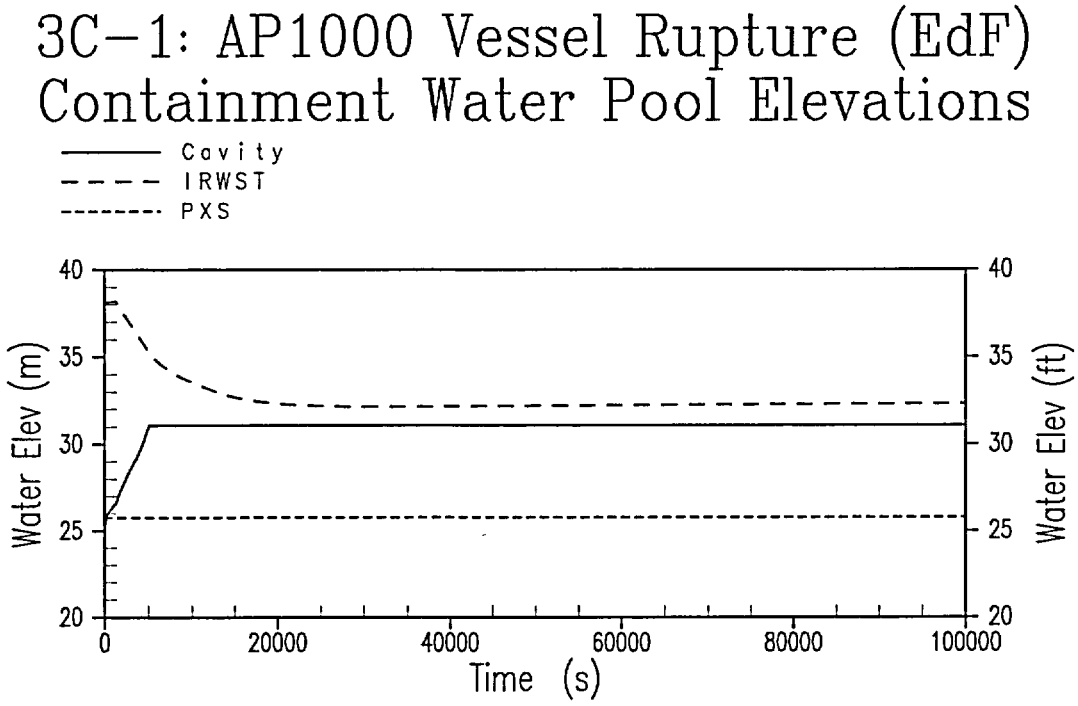

Figure 34-195

Case 3C-1: Containment Water Pool Elevations

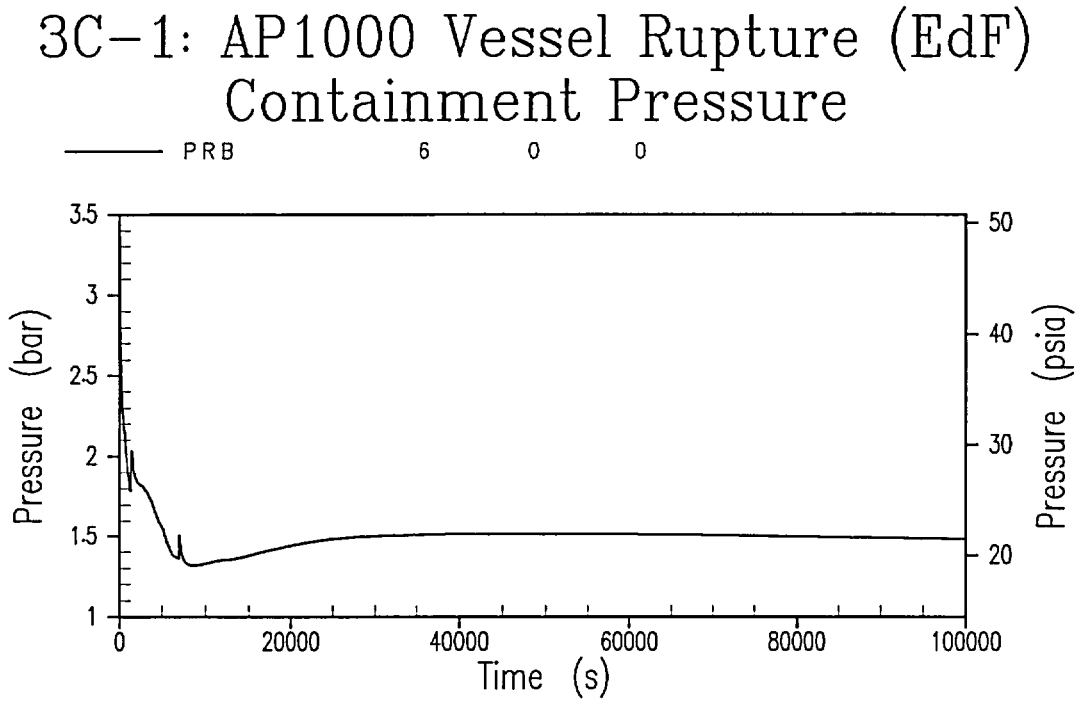

Figure 34-196

Case 3C-1: Containment Pressure

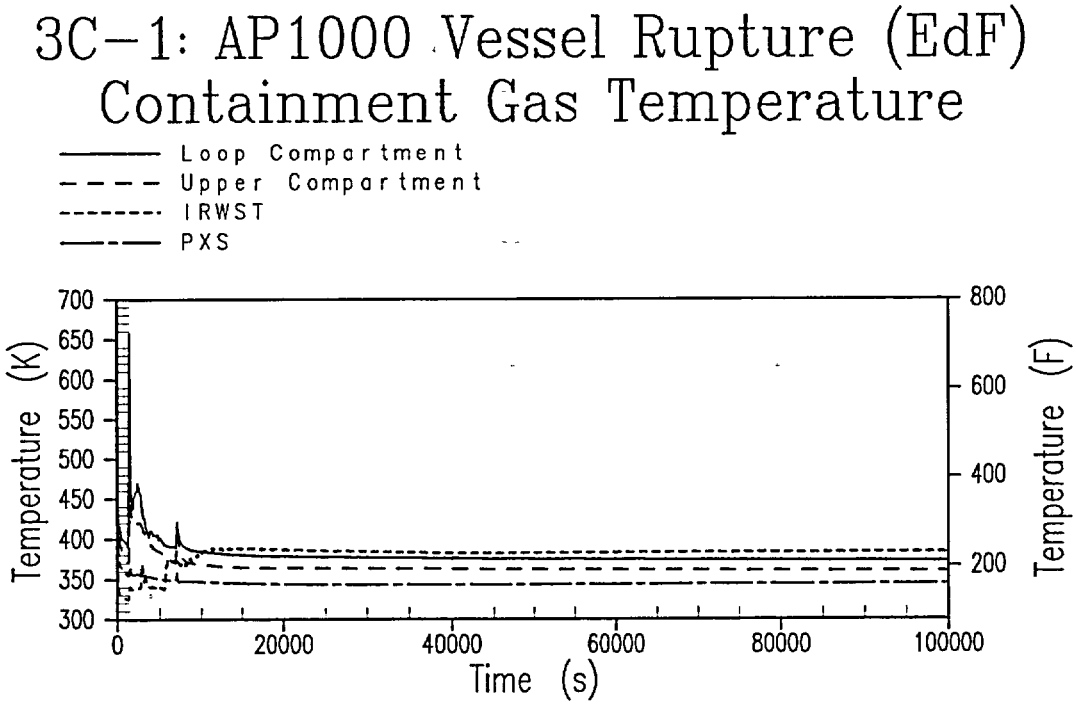

Figure 34-197

Case 3C-1: Containment Gas Temperature

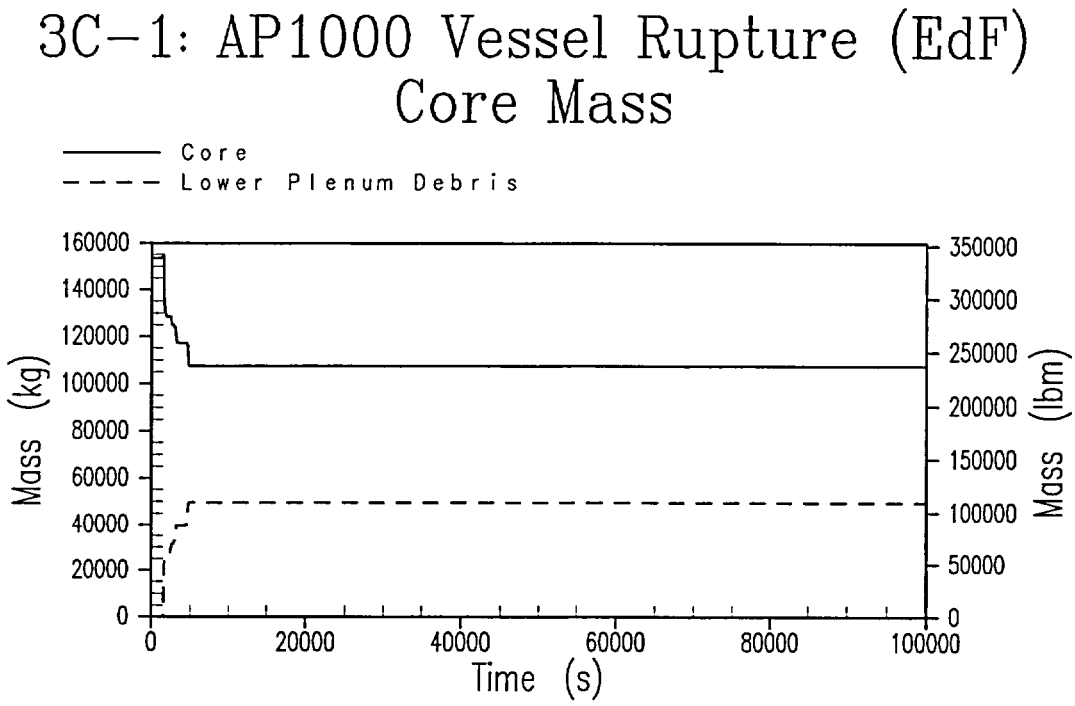

Figure 34-198

Case 3C-1: Core Mass

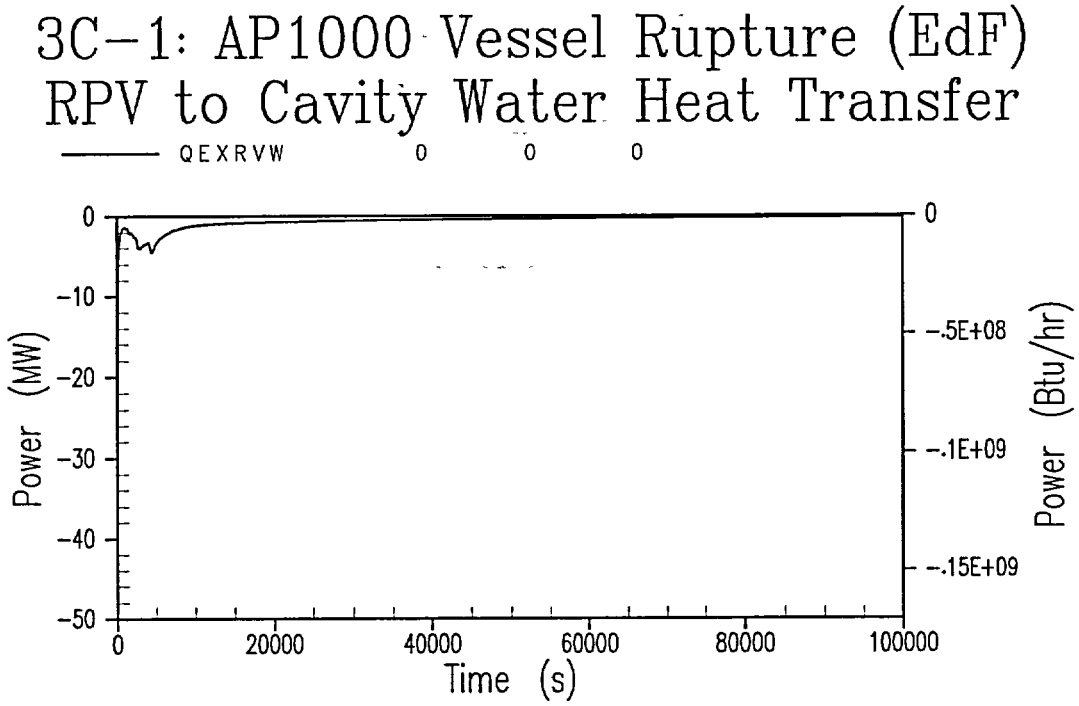

Figure 34-199

Case 3C-1: Reactor Pressure Vessel to Cavity Water Heat Transfer

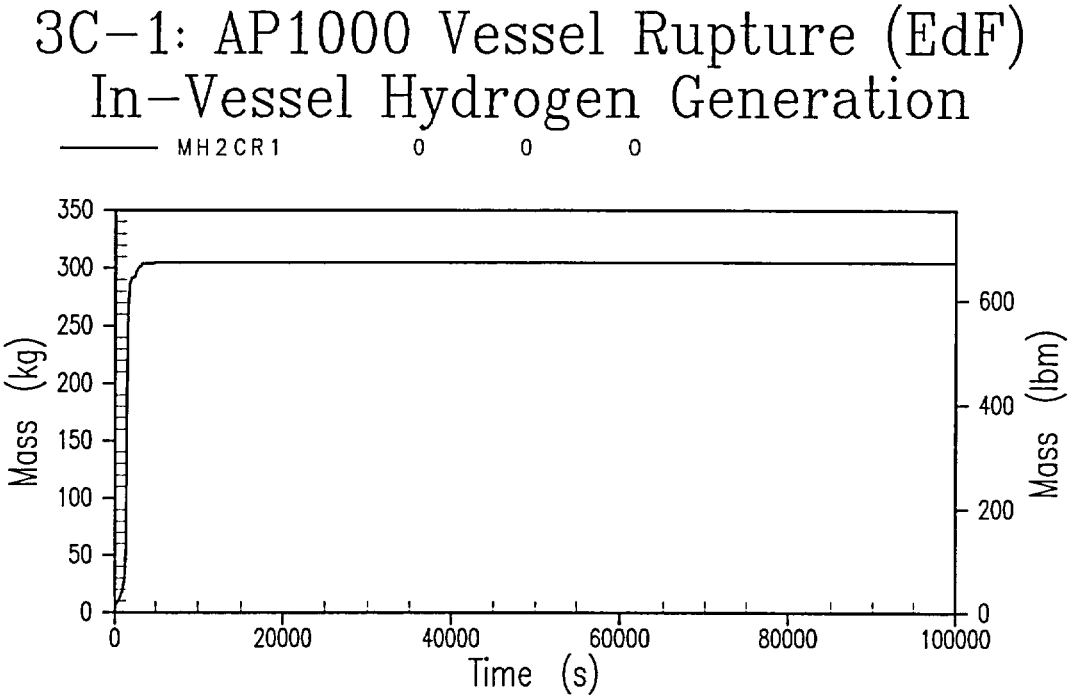

Figure 34-200

Case 3C-1: In-Vessel Hydrogen Generation

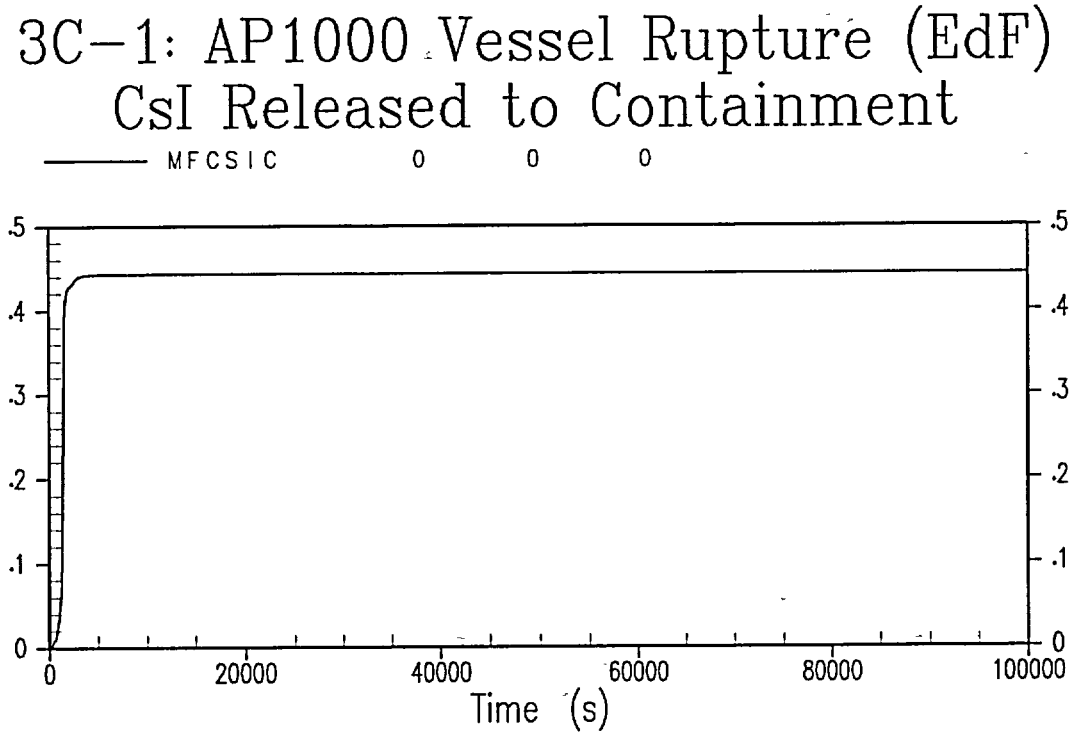

Figure 34-201

Case 3C-1: Mass Fraction of CsI Released to Containment

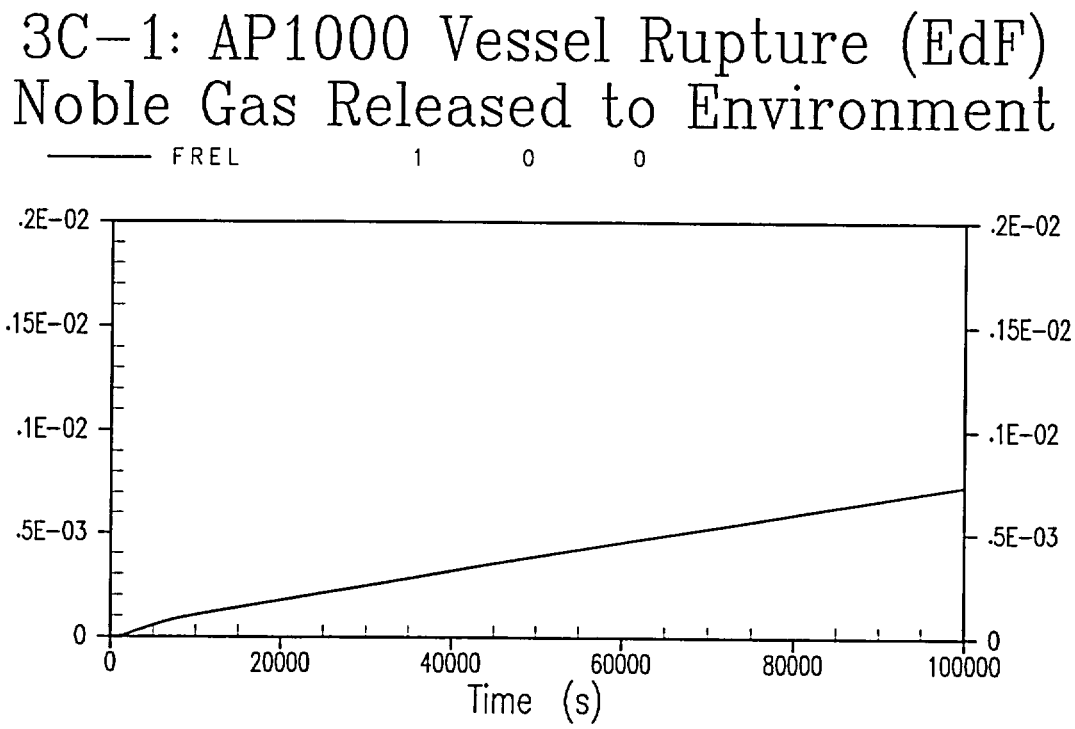

Figure 34-202

Case 3C-1: Mass Fraction of Noble Gas Released to Environment

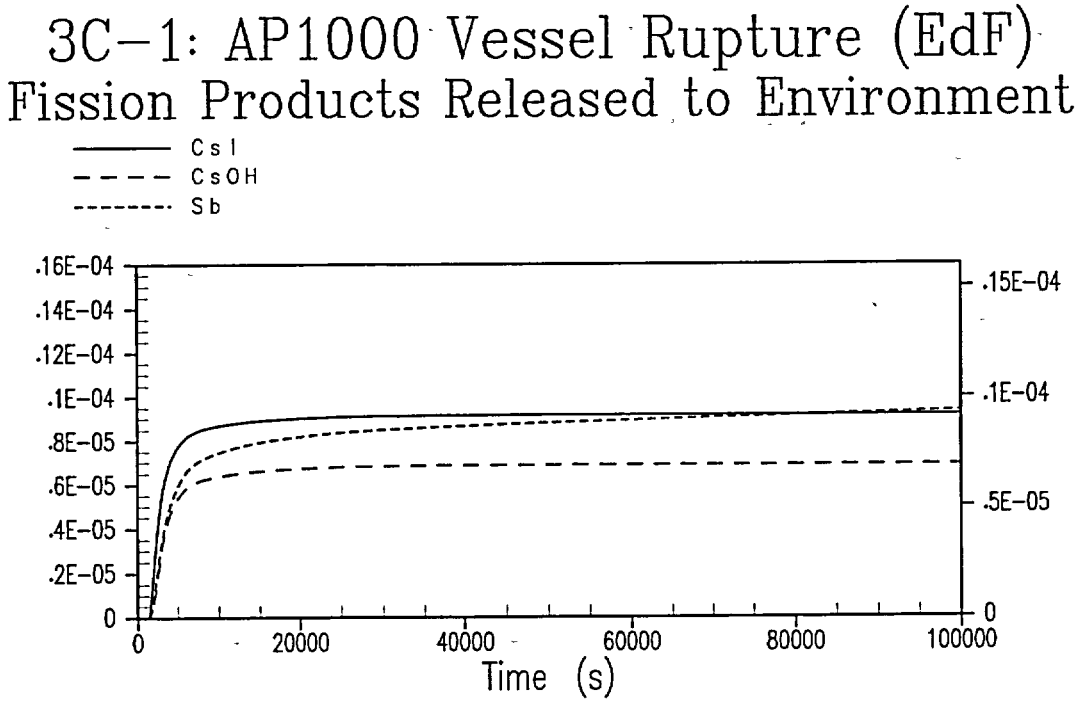

Figure 34-203

Case 3C-1: Mass Fraction of Fission Products Released to Environment

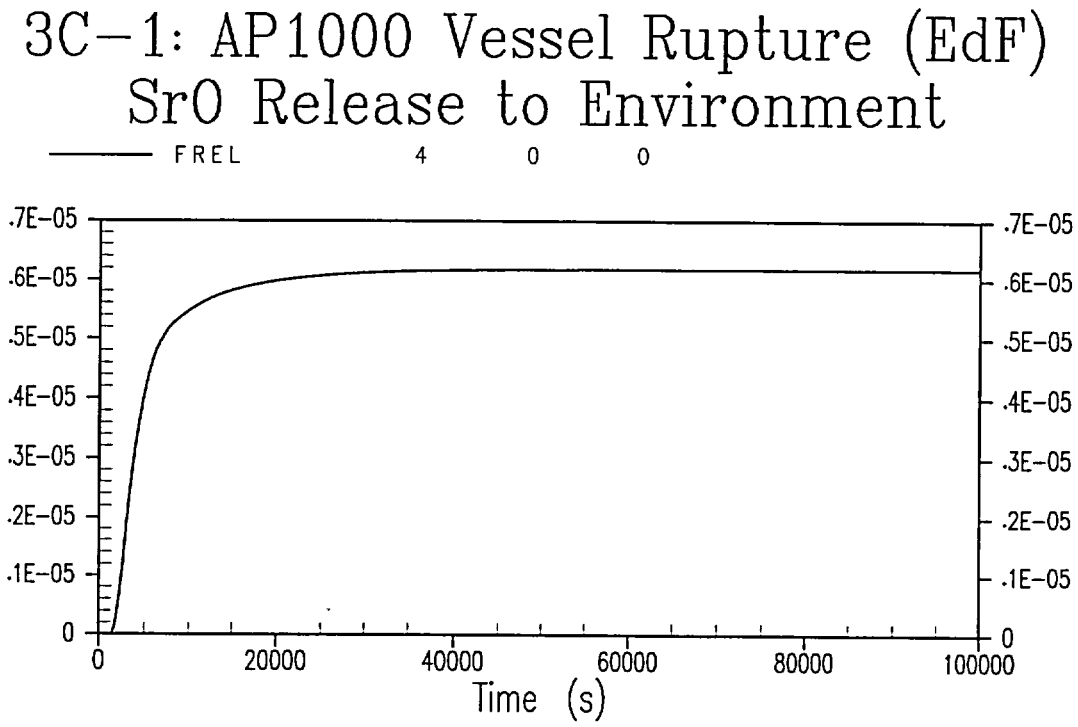

Figure 34-204

Case 3C-1: Mass Fraction of SrO Released to Environment

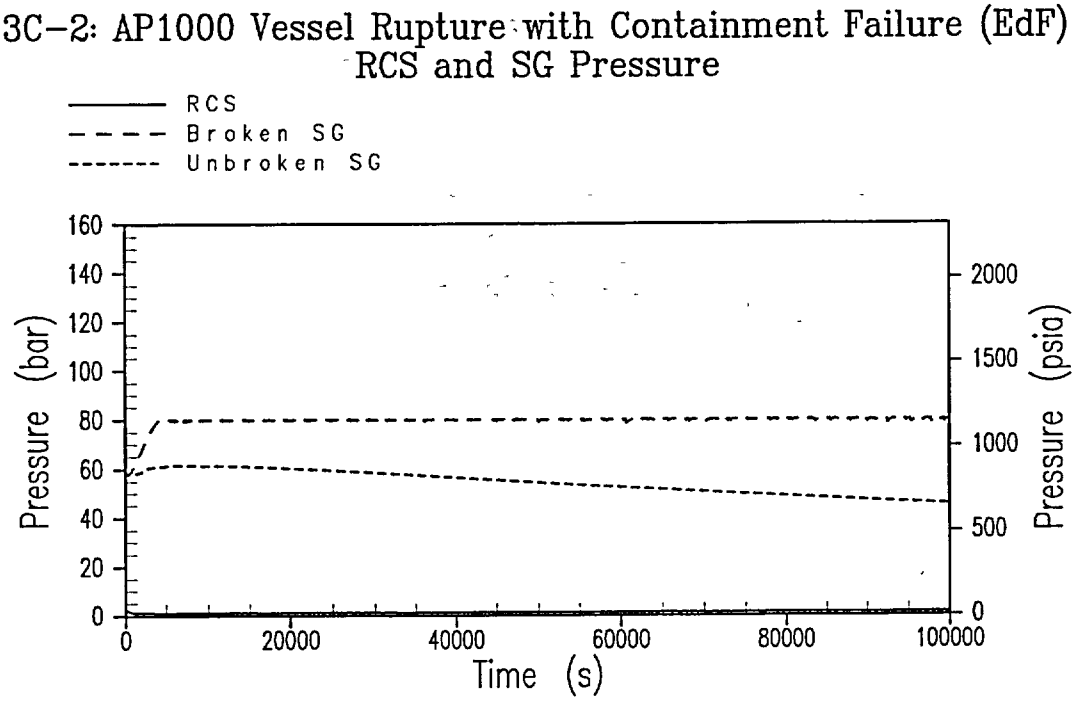

Figure 34-205

Case 3C-2: RCS and Steam Generator Pressure

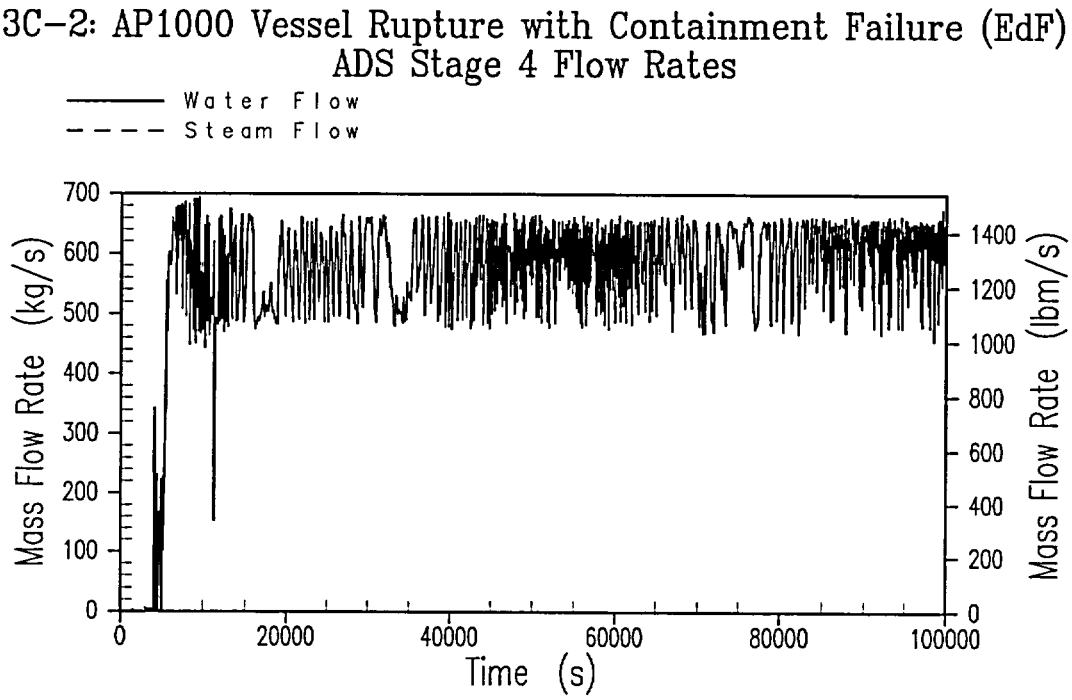

Figure 34-206

Case 3C-2: ADS Stage 4 Flow Rates

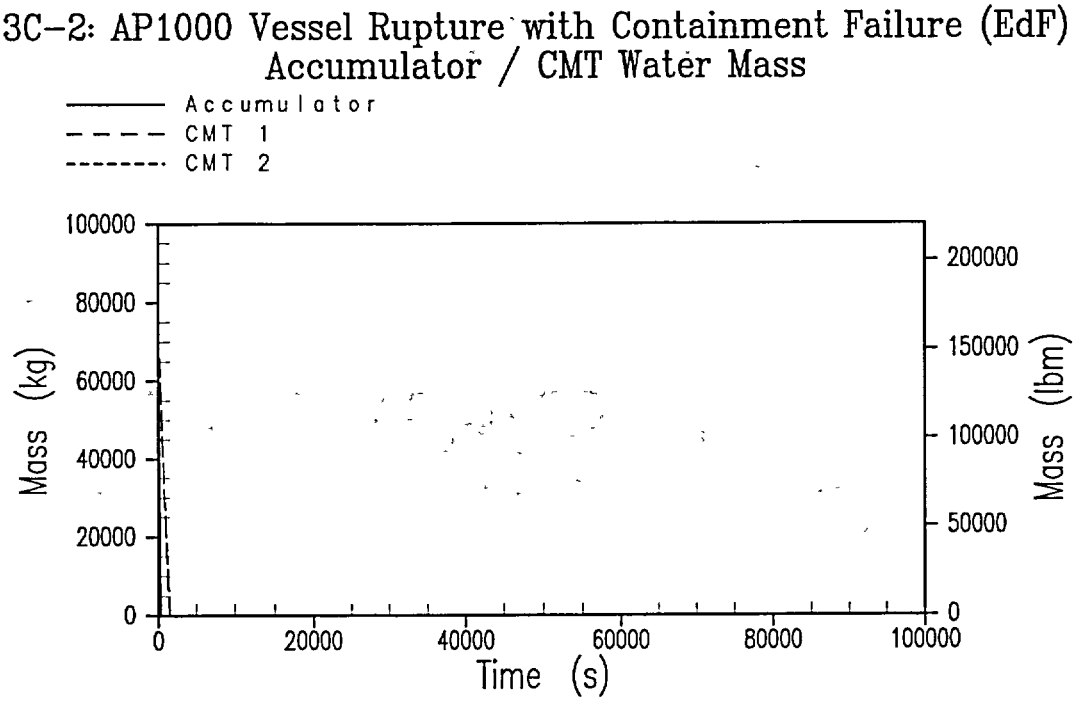

Figure 34-207

Case 3C-2: Accumulator / CMT Water Mass

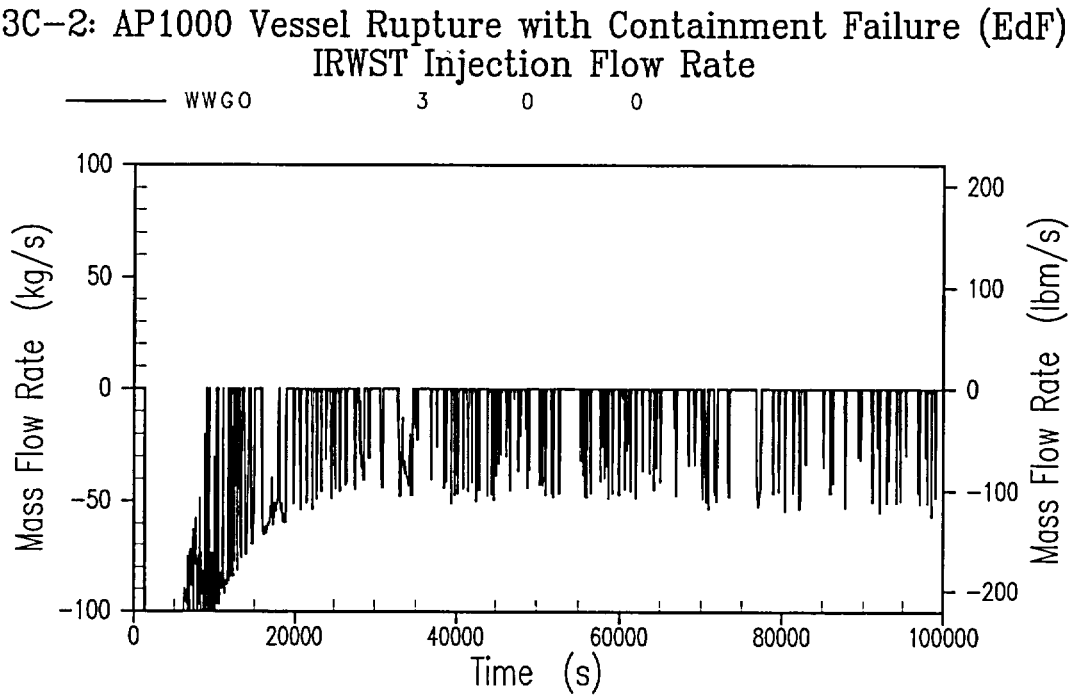

Figure 34-208

Case 3C-2: IRWST Injection Flow Rate

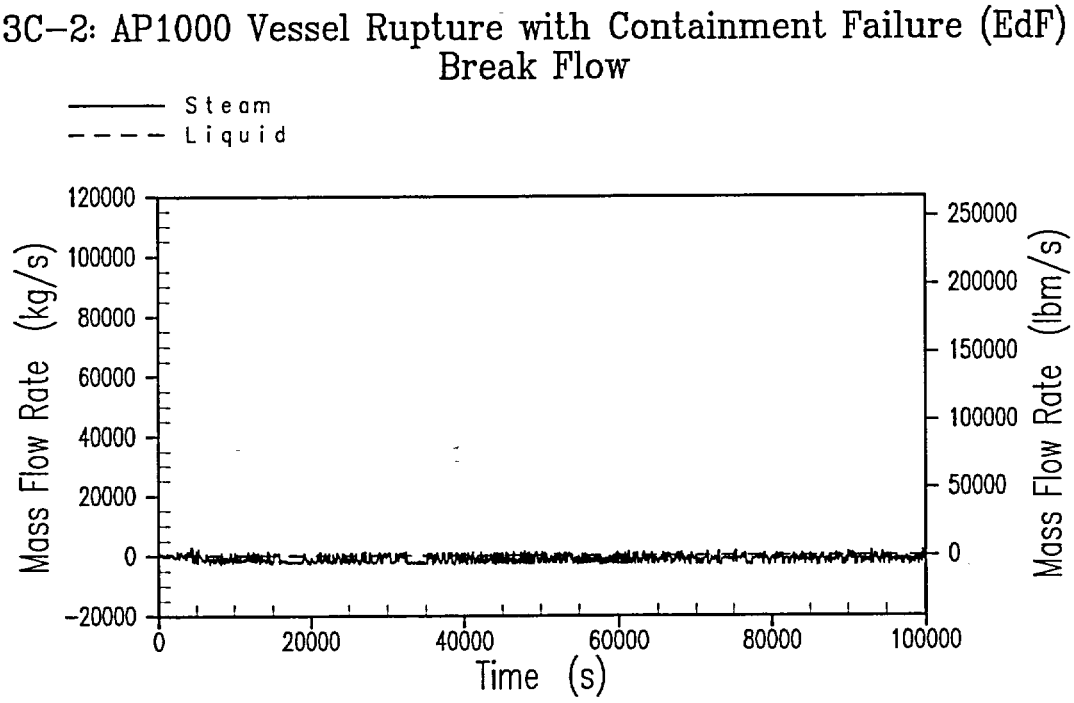

Figure 34-209

Case 3C-2: Break Flow Rate

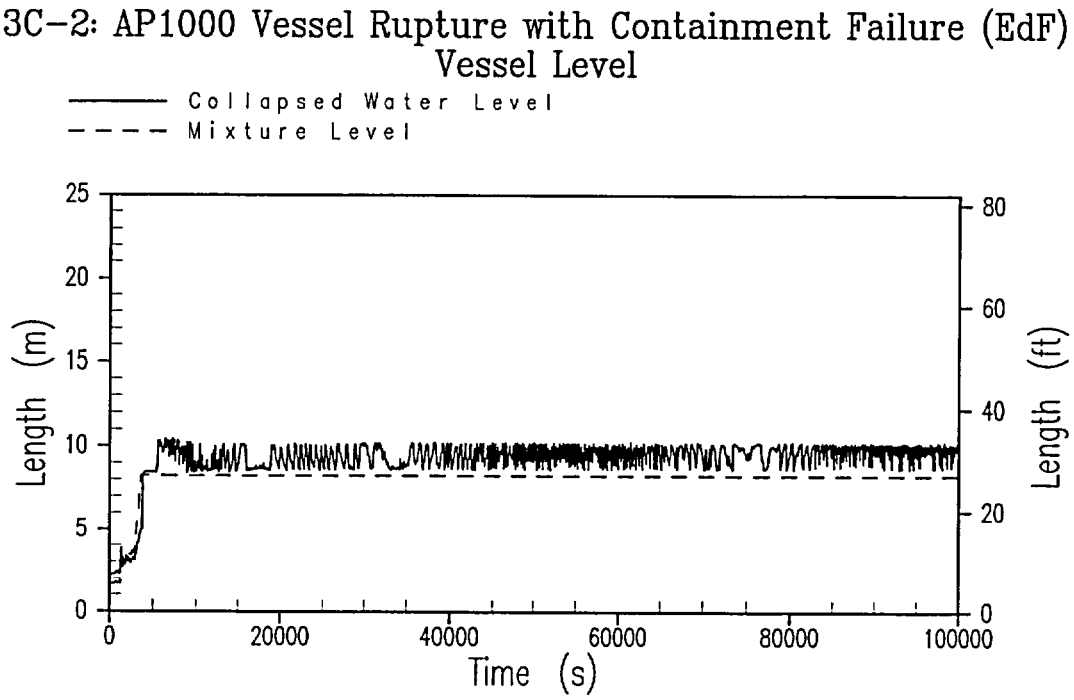

Figure 34-210

Case 3C-2: Reactor Vessel Water Level

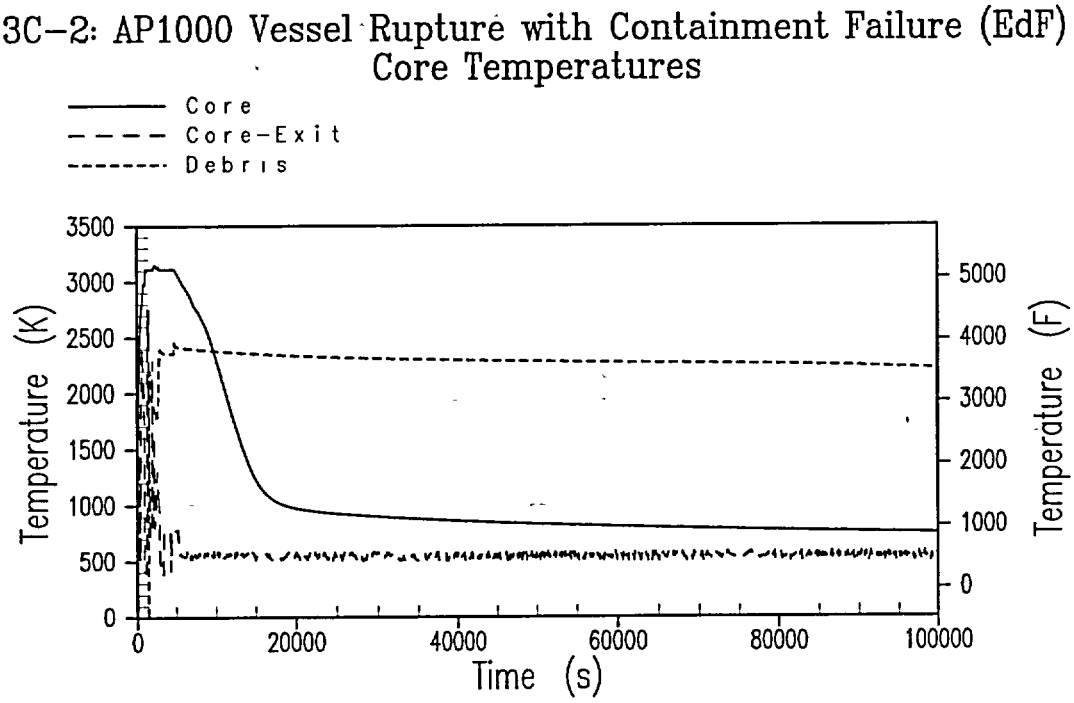

Figure 34-211

Case 3C-2: Core Temperatures

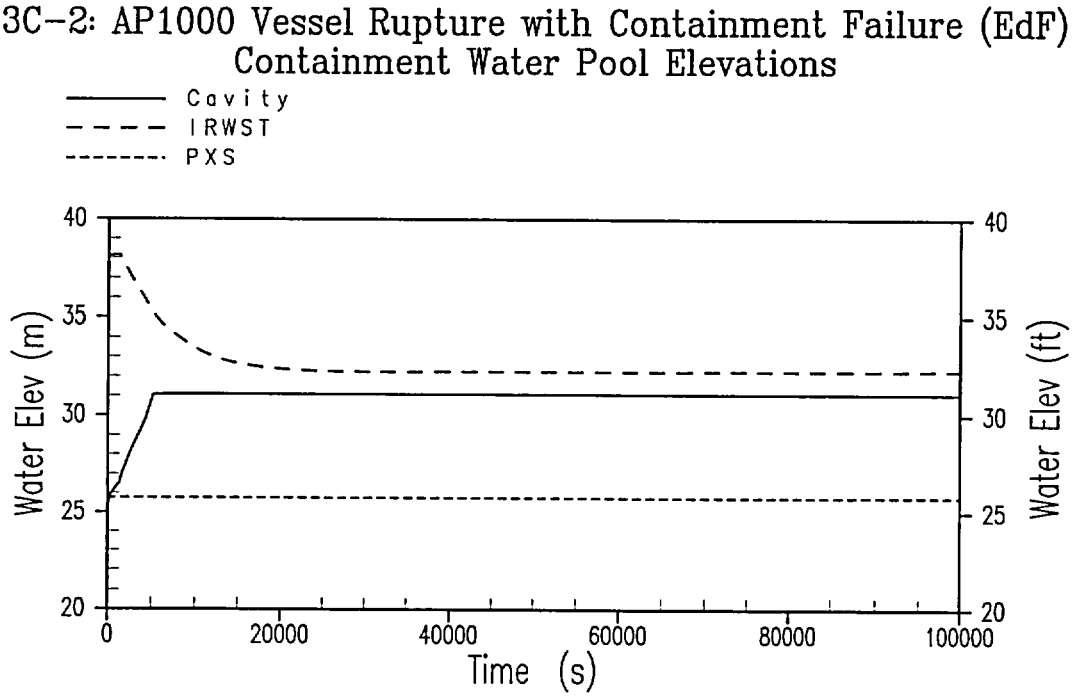

Figure 34-212

Case 3C-2: Containment Water Pool Elevations

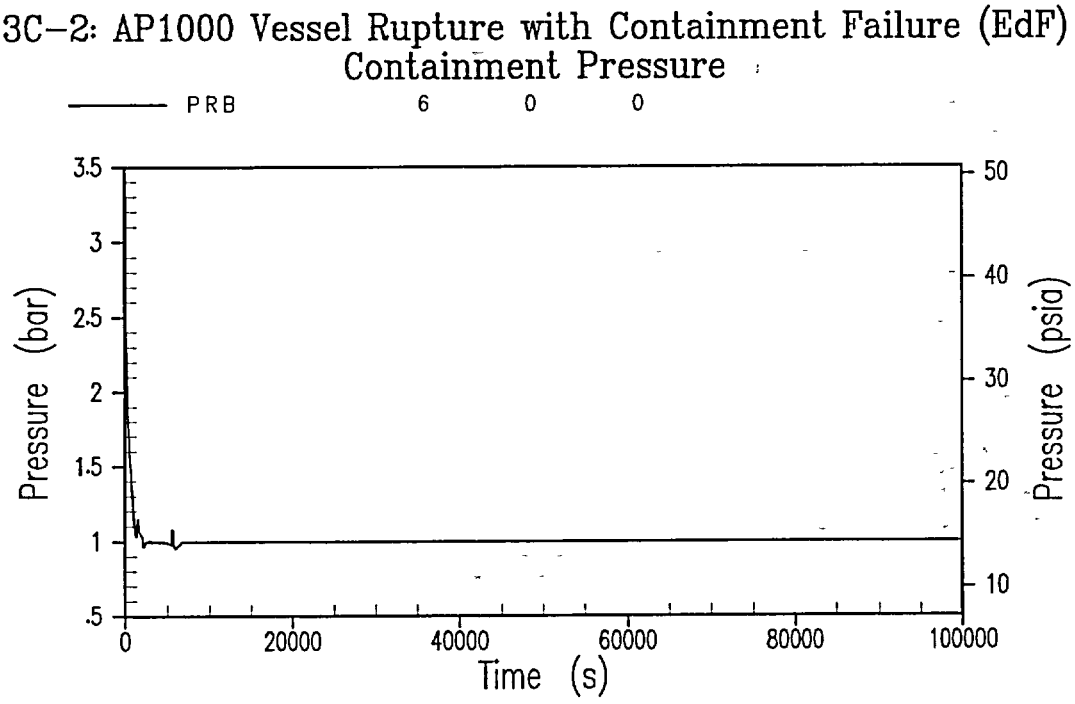

Figure 34-213

Case 3C-2: Containment Pressure

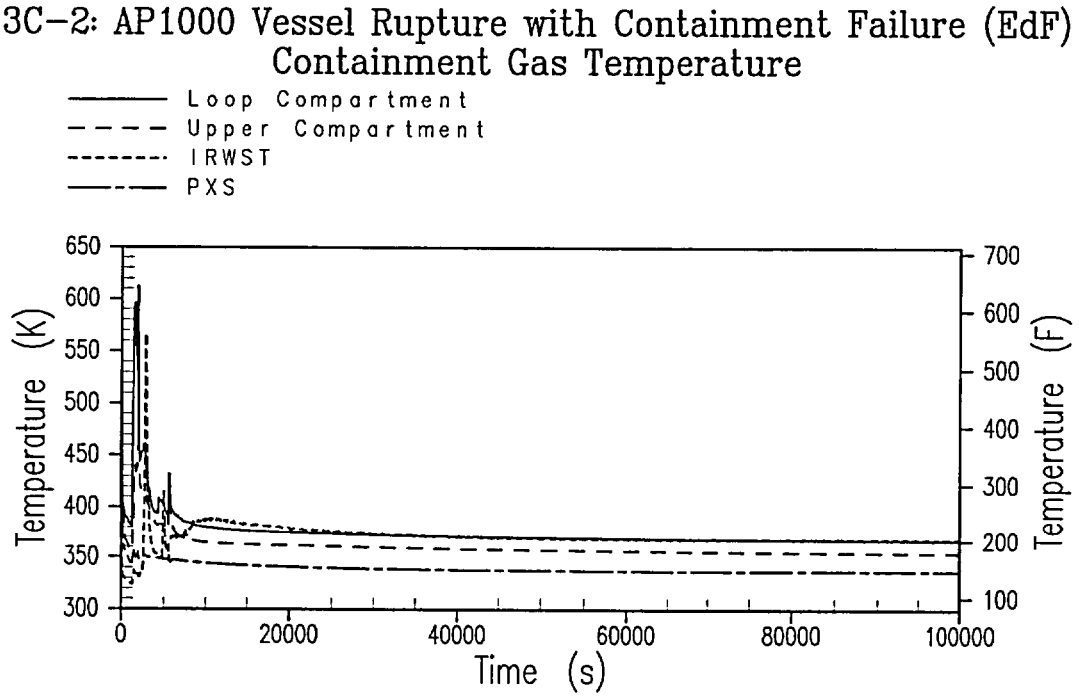

Figure 34-214

Case 3C-2: Containment Gas Temperature

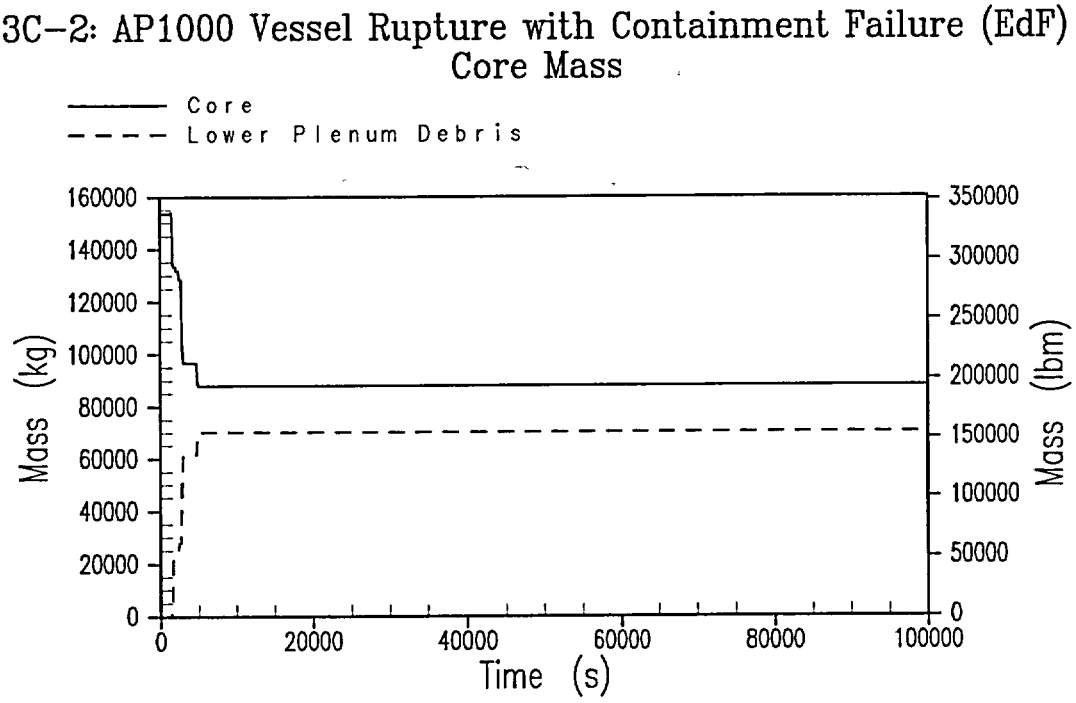

Figure 34-215

Case 3C-2: Core Mass

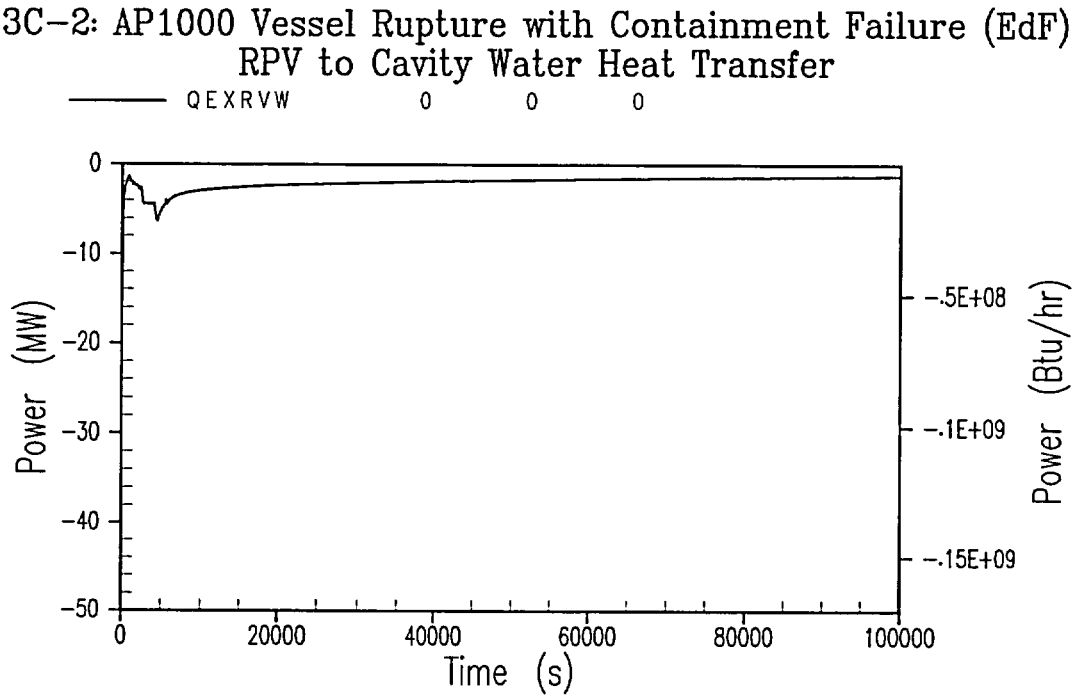

Figure 34-216

Case 3C-2: Reactor Pressure Vessel to Cavity Water Heat Transfer

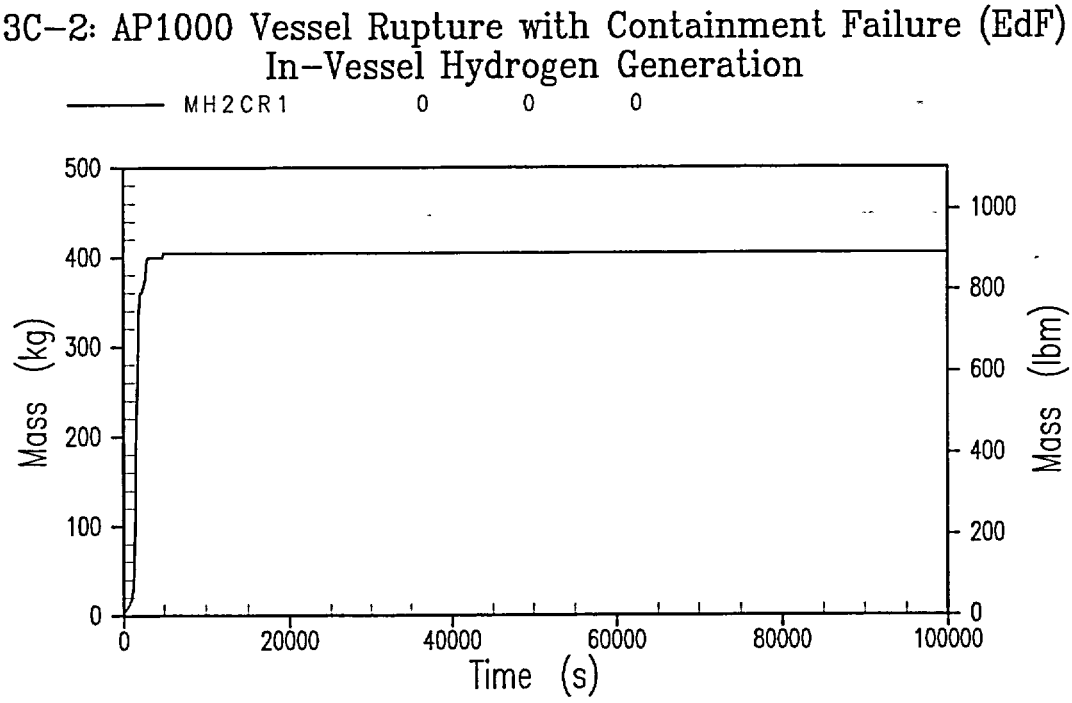

Figure 34-217

Case 3C-2: In-Vessel Hydrogen Generation

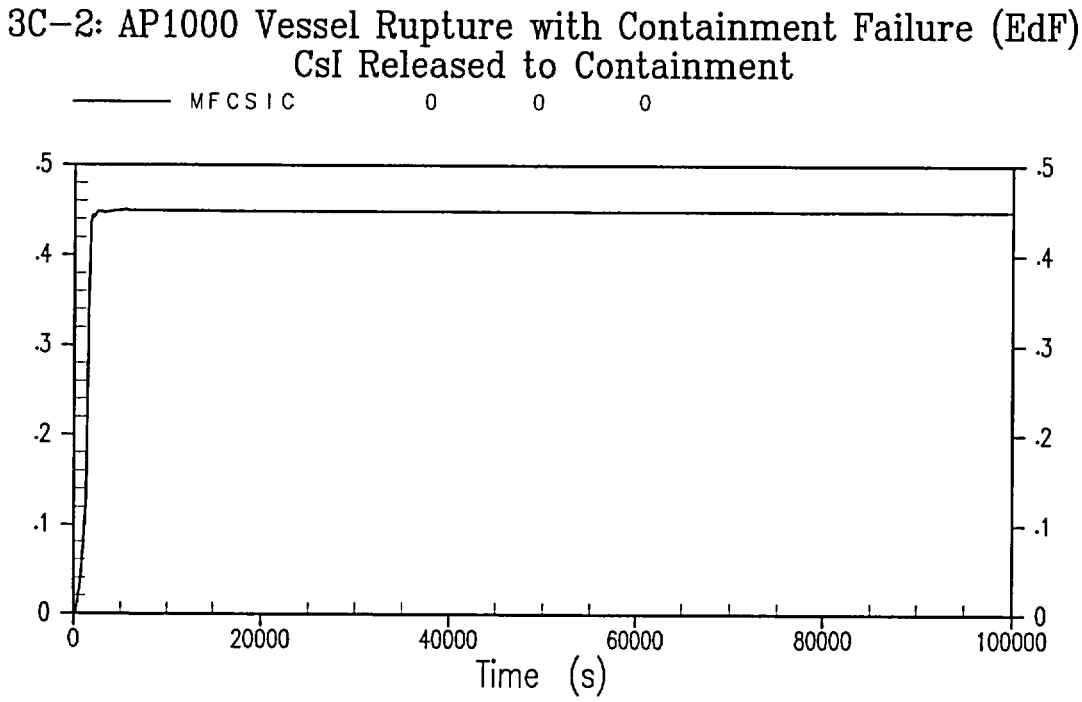

Figure 34-218

Case 3C-2: Mass Fraction of CsI Released to Containment

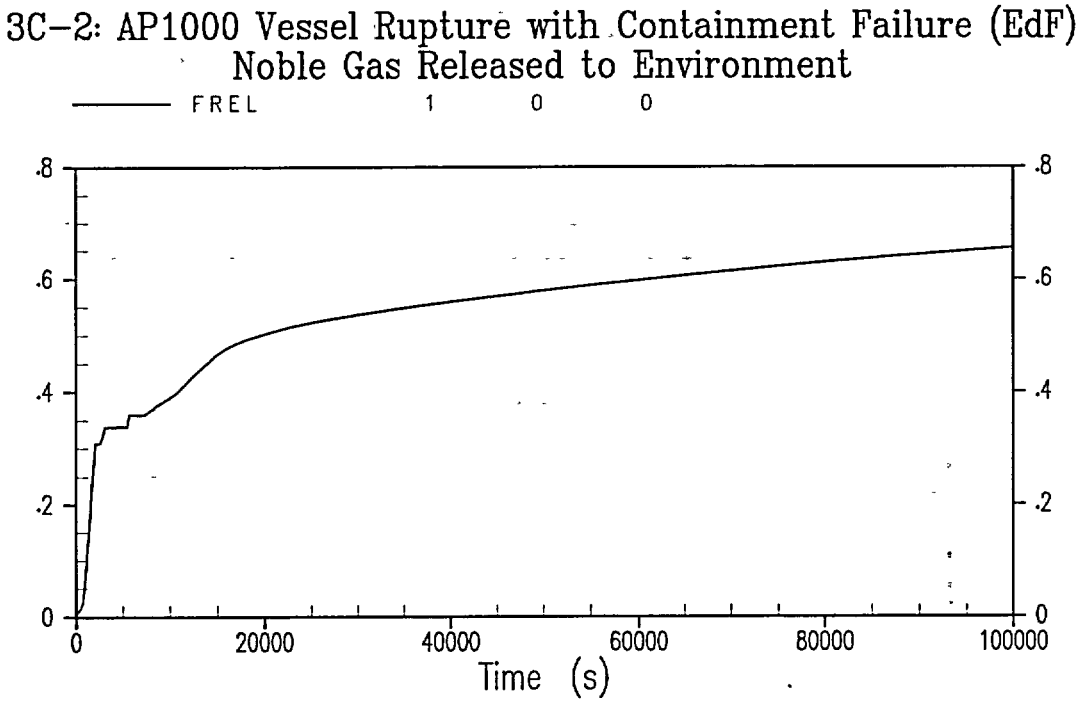

Figure 34-219

Case 3C-2: Mass Fraction of Noble Gases Released to Environment

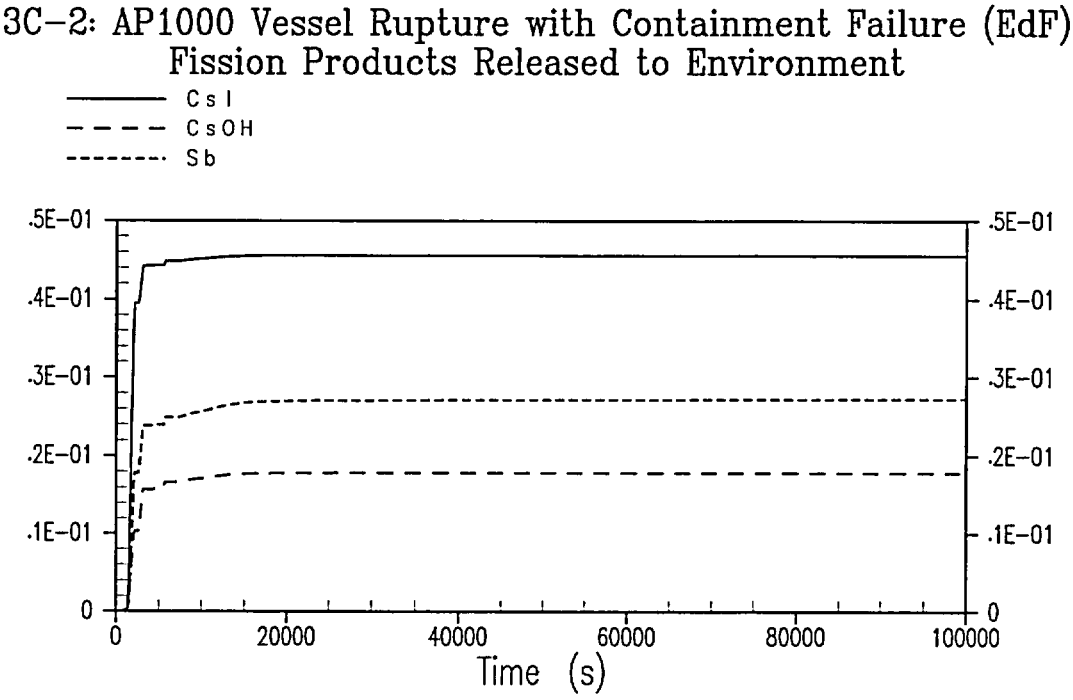

Figure 34-220

Case 3C-2: Mass Fraction of Fission Products Released to Environment

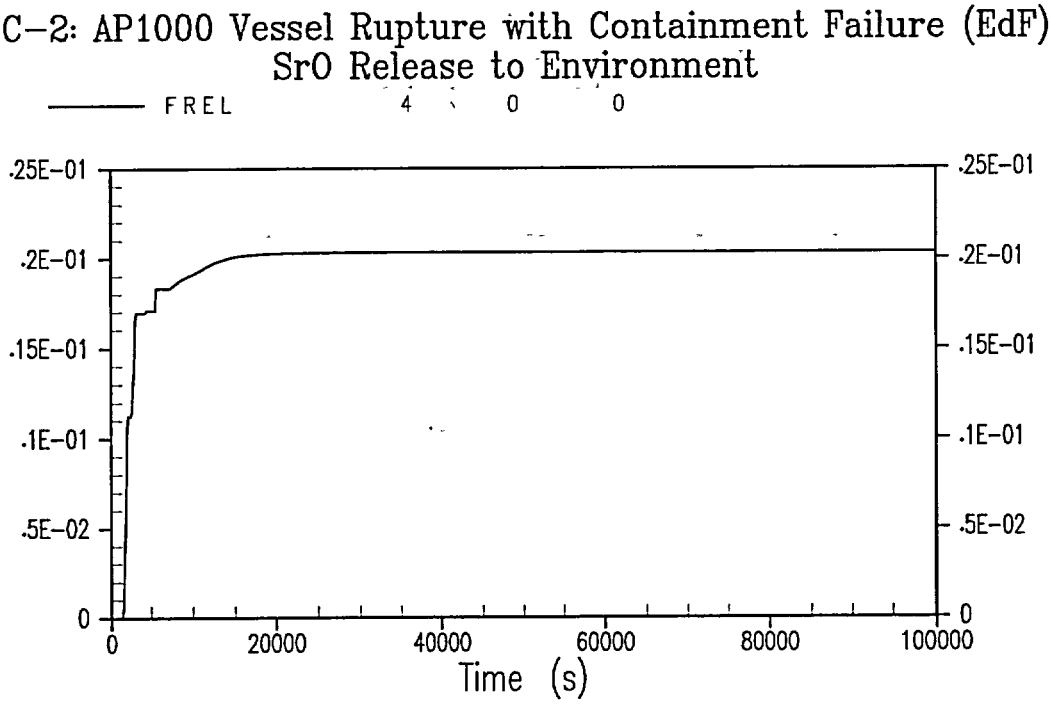

Figure 34-221

Case 3C-2: Mass Fraction of SrO Released to Environment

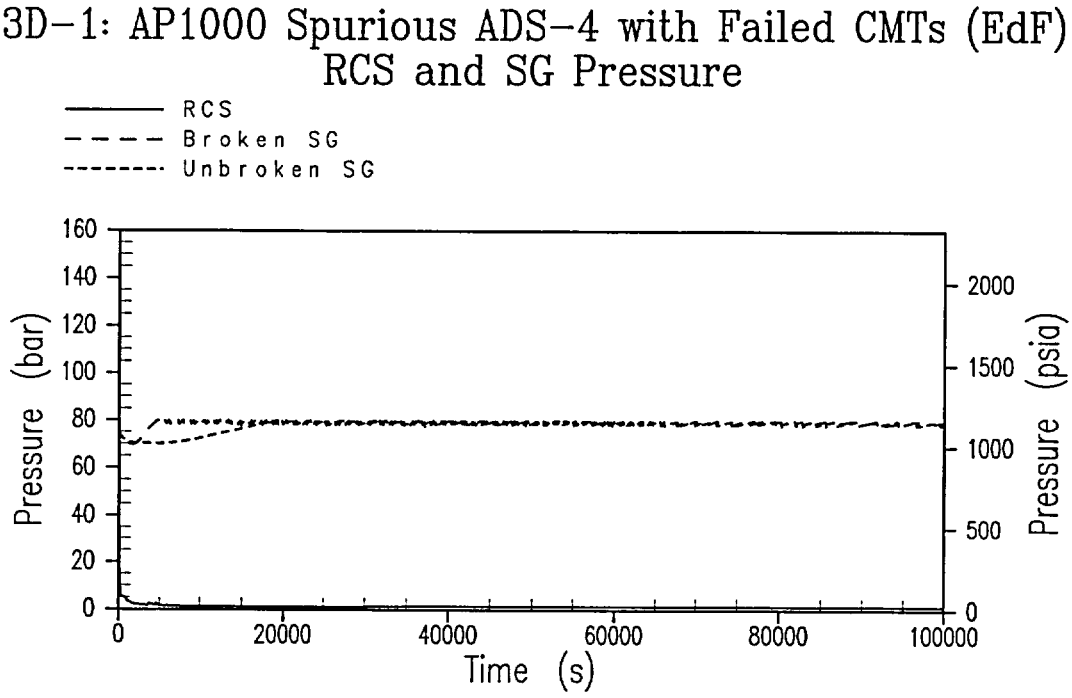

Figure 34-222

Case 3D-1: RCS and Steam Generator Pressure

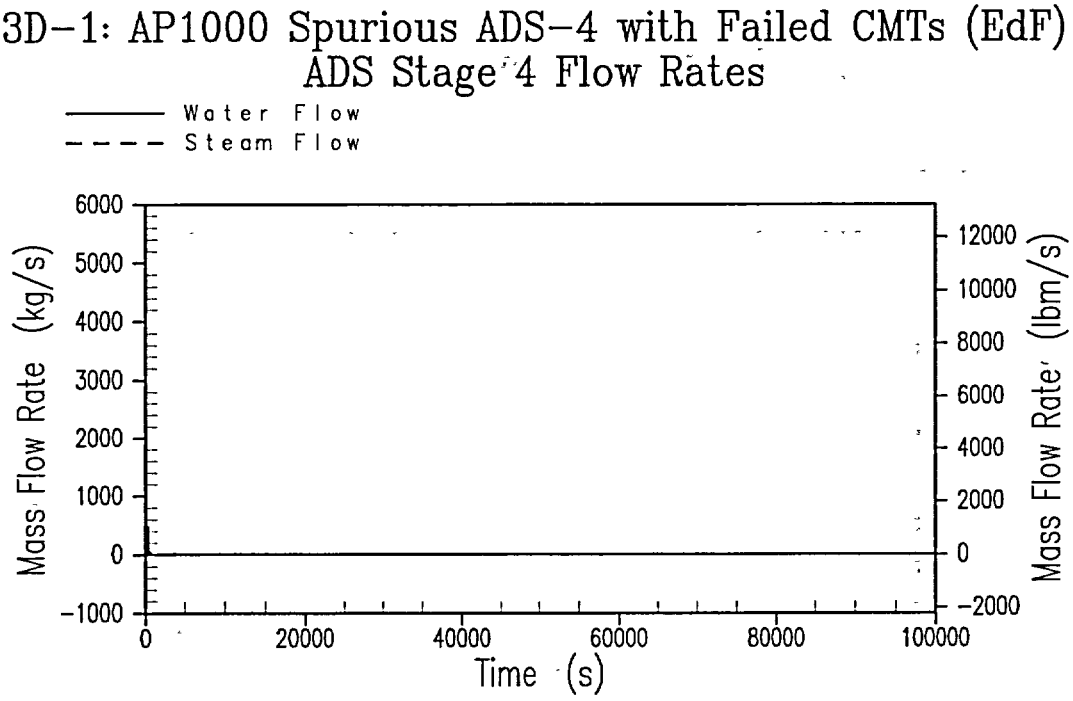

Figure 34-223

Case 3D-1: ADS Stage 4 Flow Rates

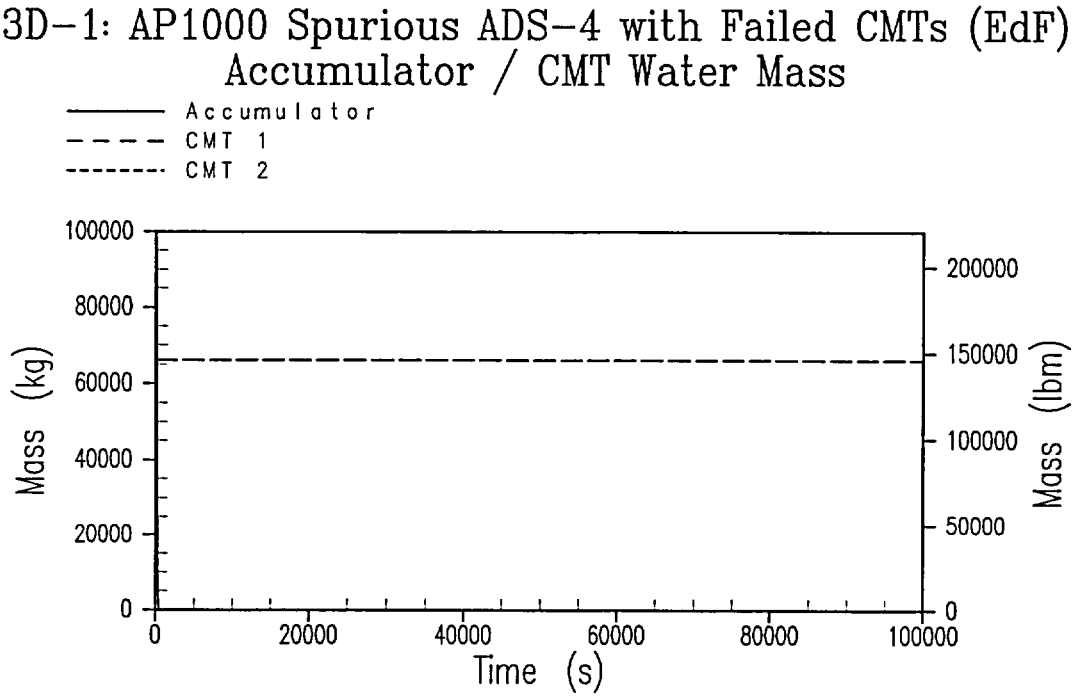

Figure 34-224

Case 3D-1: Accumulator / CMT Water Mass

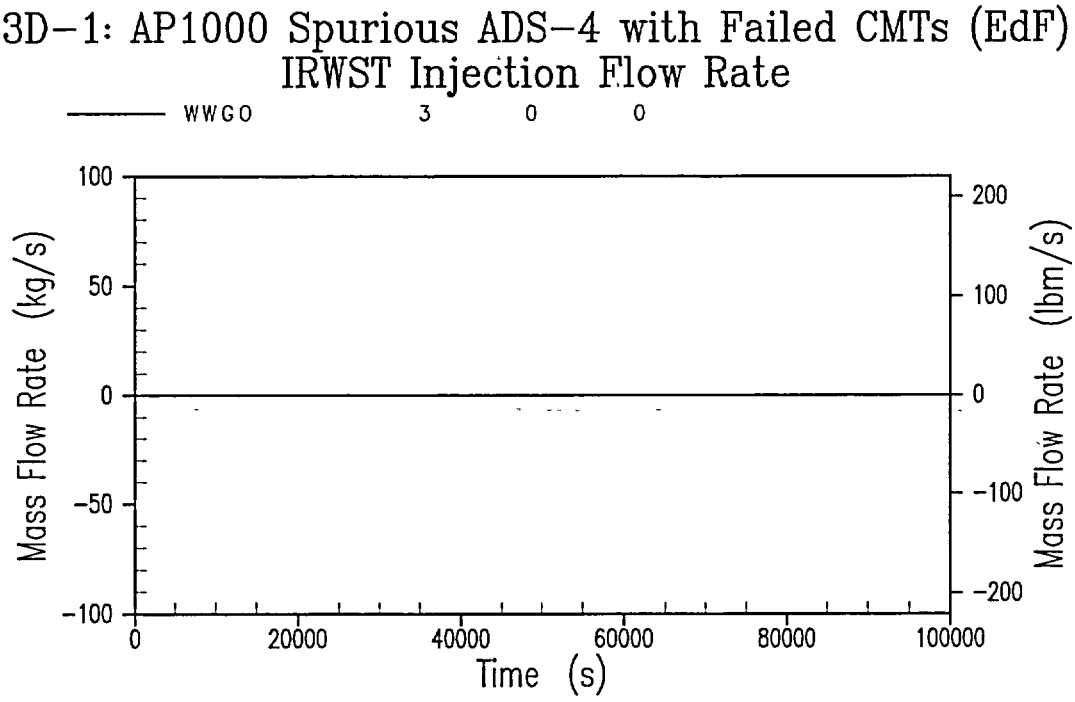

Figure 34-225

Case 3D-1: IRWST Injection Flow Rate

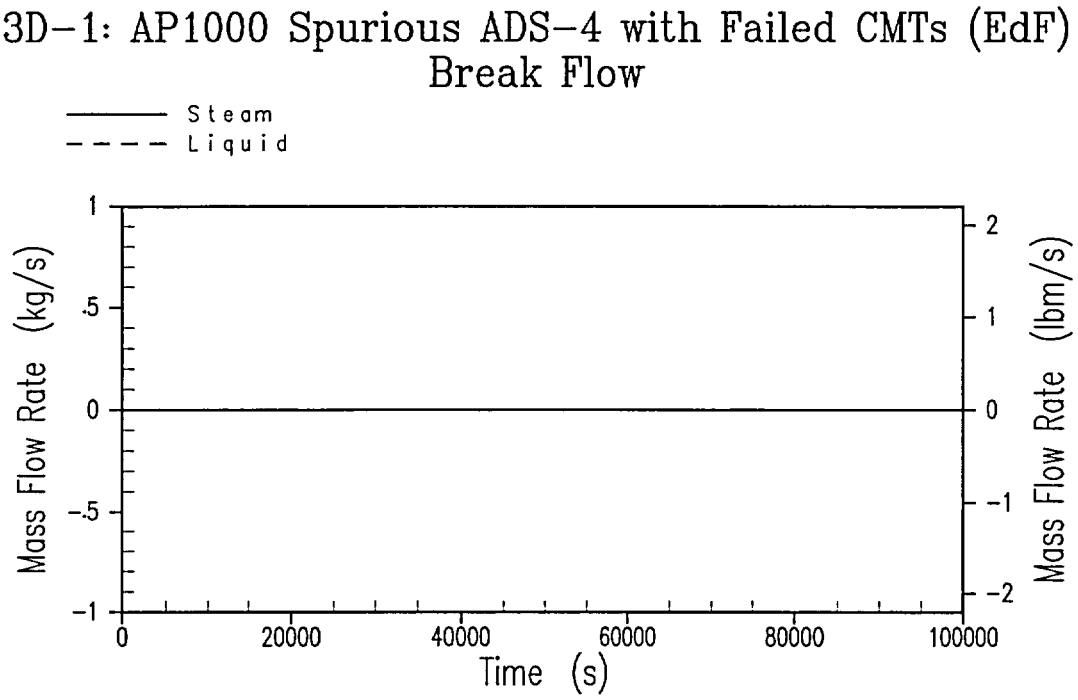

Figure 34-226

Case 3D-1: Break Flow Rate

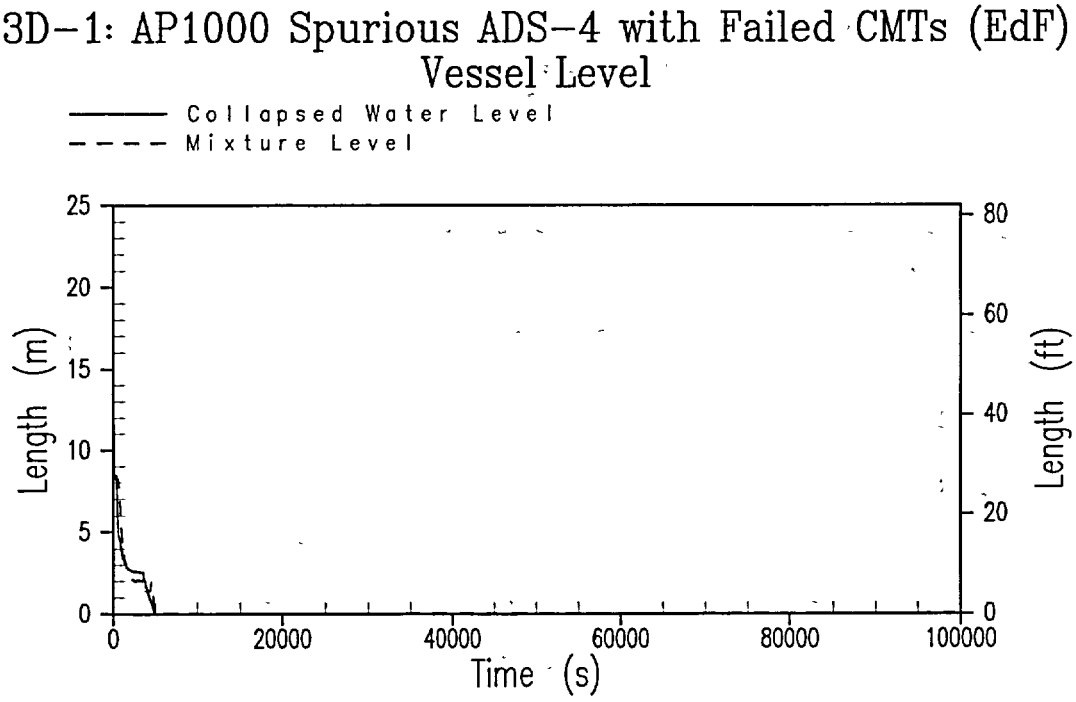

Figure 34-227

Case 3D-1: Reactor Vessel Water Level

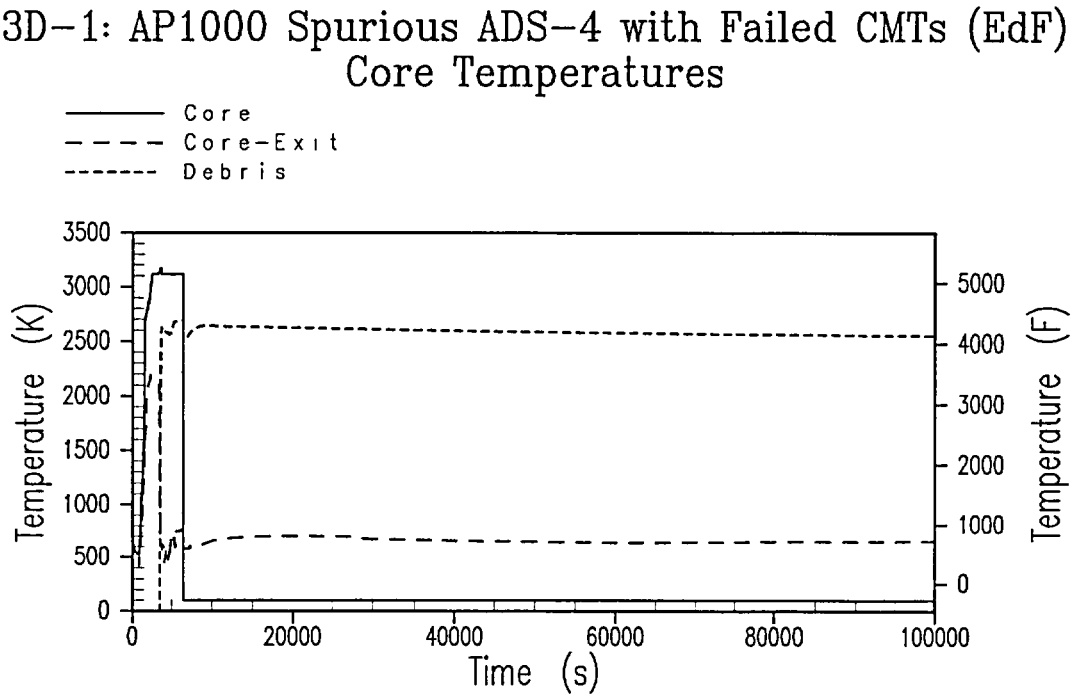

Figure 34-228

Case 3D-1: Core Temperatures

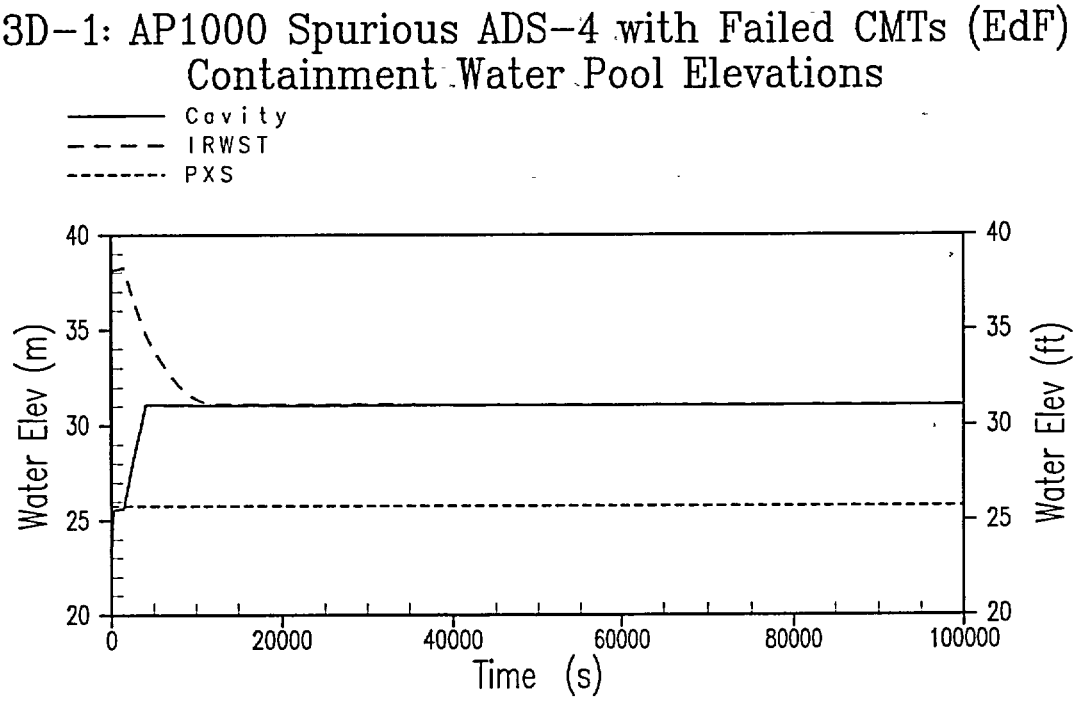

Figure 34-229

Case 3D-1: Containment Water Pool Elevations

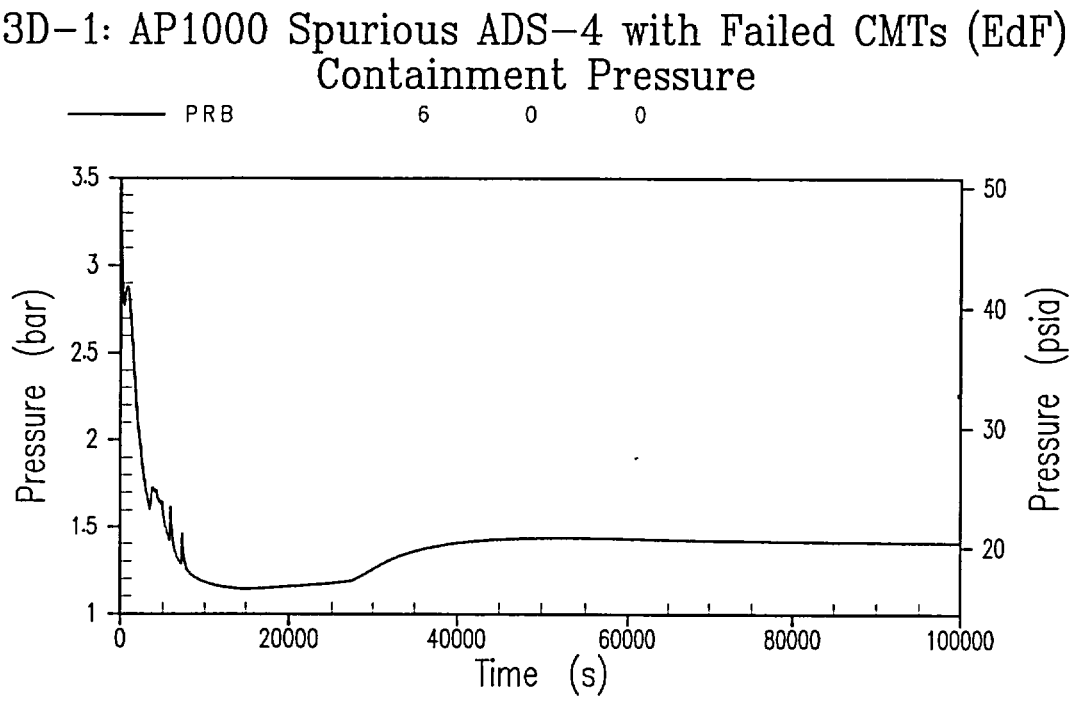

Figure 34-230

Case 3D-1: Containment Pressure

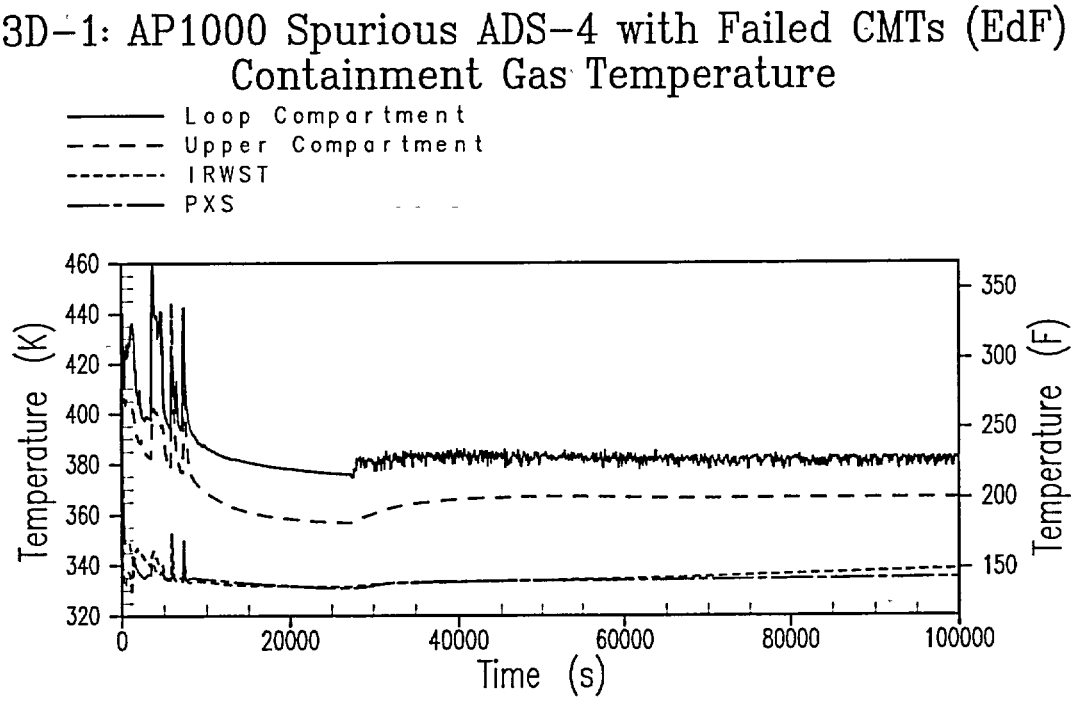

Figure 34-231

Case 3D-1: Containment Gas Temperature

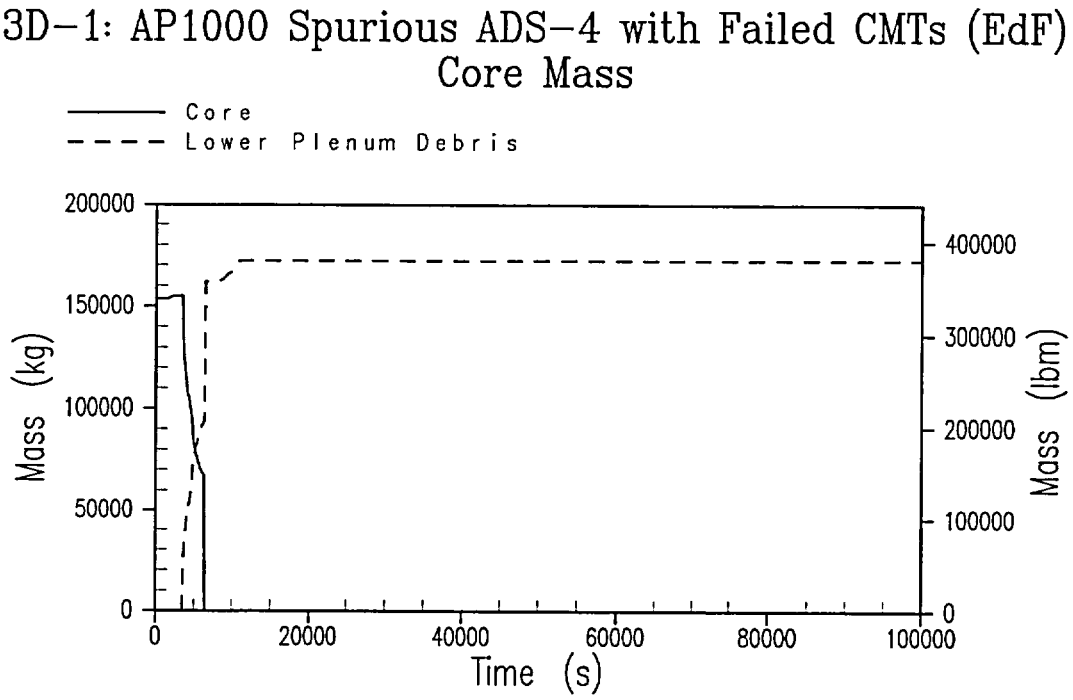

Figure 34-232

Case 3D-1: Core Mass

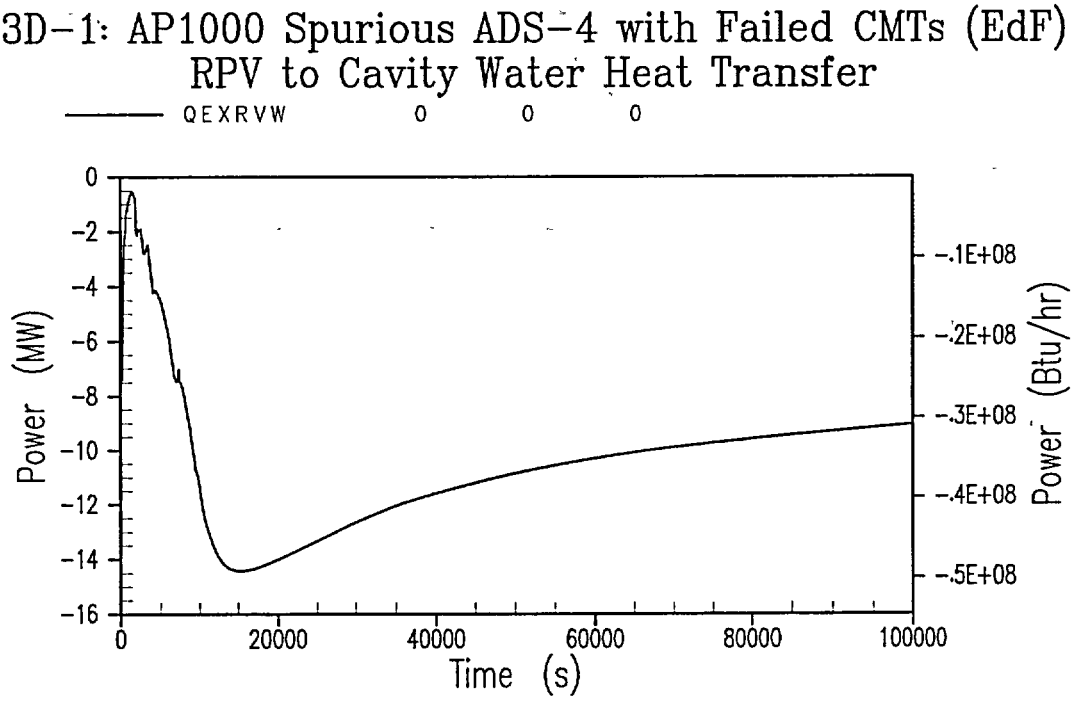

Figure 34-233

Case 3D-1: Reactor Pressure Vessel to Cavity Water Heat Transfer

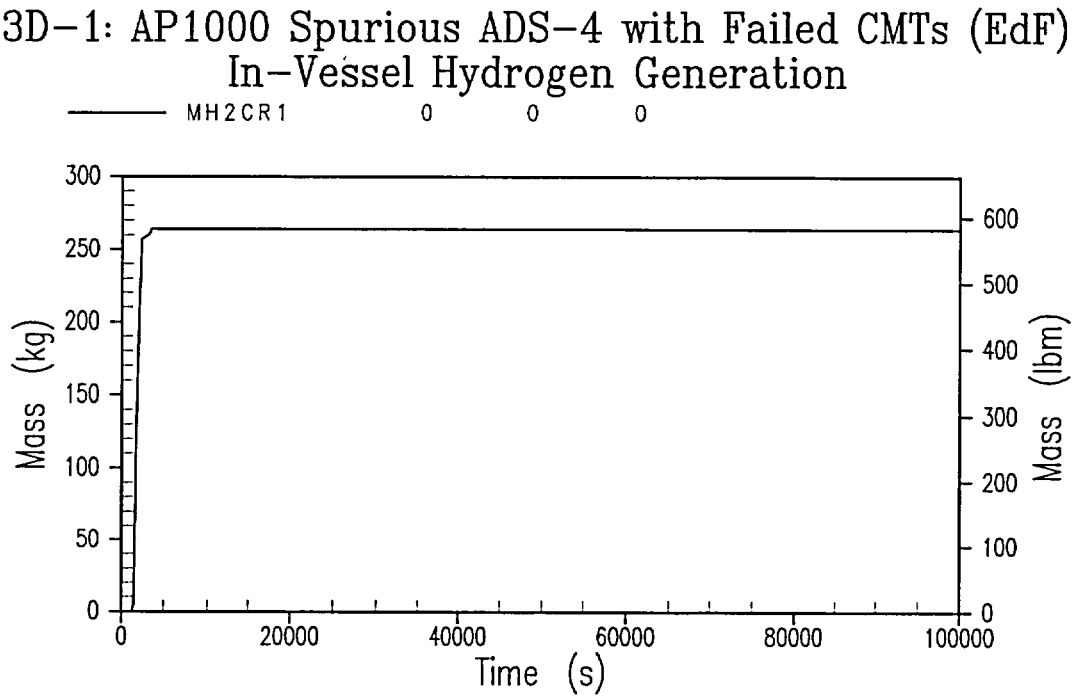

Figure 34-234

Case 3D-1: In-Vessel Hydrogen Generation

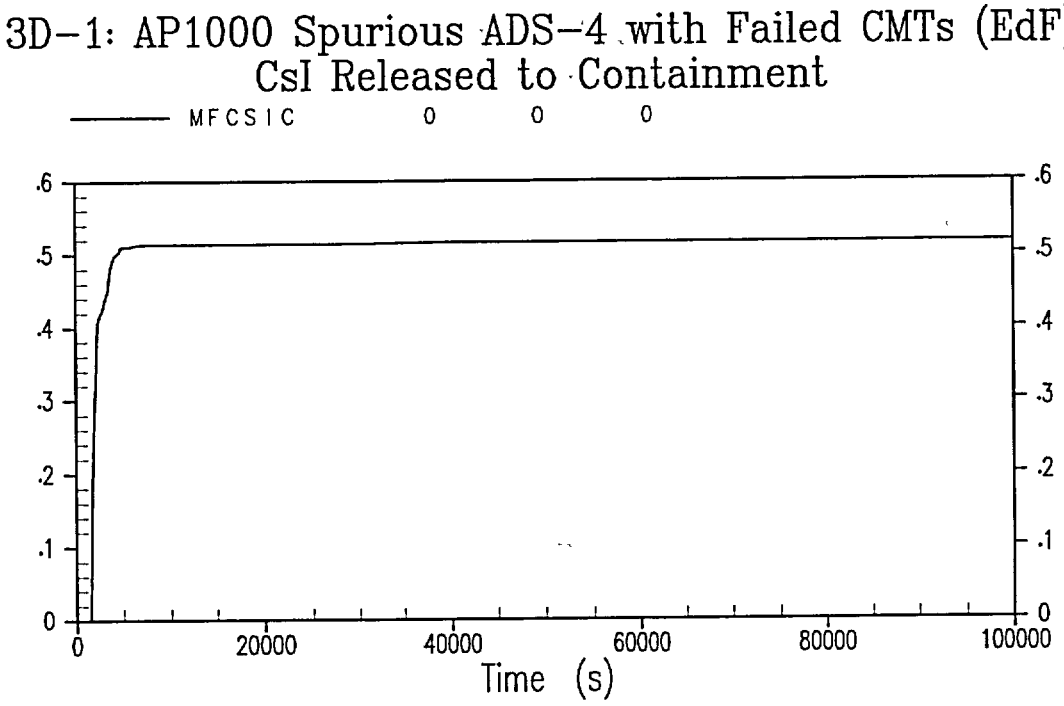

Figure 34-235

Case 3D-1: Mass Fraction of CsI Released to Containment

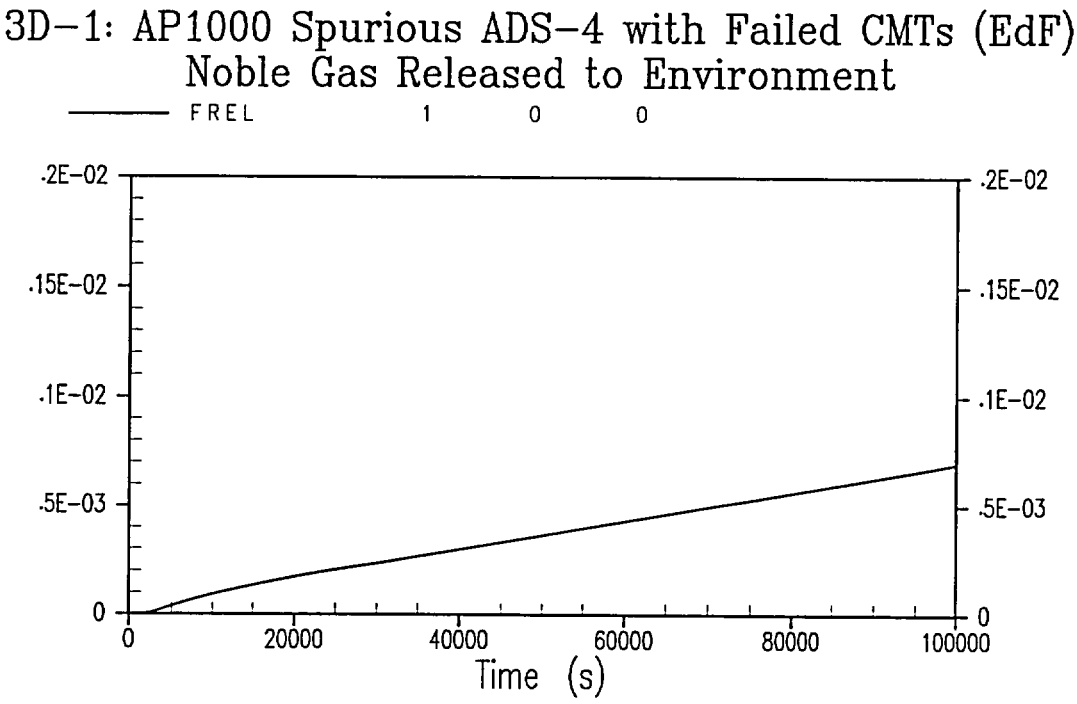

Figure 34-236

Case 3D-1: Mass Fraction of Noble Gases Released to Environment