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Silver Spring, Maryland 20910
301/587-8202

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1 of 1

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HW-68448 D

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8-17-61

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HANFORD ATOMIC PRODUCTS OPERATION - RICHLAND, WASHINGTON

TITLE

DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D Reactor

AUTHOR

M. A. Clinton

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By Authority of CIG-PR-2
RM Sten, 2-23-44.
 By Jesse Males, 3-9-94.
 Verified By 'K Hanson, 3-21-94

DAILY DATA SHEETS

UT-2 TEST, PT-IF-310-A-FP

D REACTOR

Date 11-3-61 Inlet Temperature 15.3 Pile Power Level 1790 Time 1000

Tube	Outlet Temperature	Panel lit Dial	Panel lit Base	Front Header Pressure	
2772	<u>108.3</u>	<u>64</u>		<u>563</u>	
2774	<u>105.5</u>	<u>65</u>		<u>563</u>	
2777	<u>110</u>	<u>61</u>		<u>563</u>	
3282	<u>113.2</u>	<u>67</u>		<u>567</u>	
3284	<u>116</u>	<u>65</u>		<u>567</u>	
3385	<u>116.8</u>	<u>68</u>		<u>568</u>	
3685	<u>110.8</u>	<u>63</u>		<u>564</u>	
3784	<u>115.7</u>	<u>69</u>		<u>564</u>	
3887	<u>104</u>	<u>42</u>		<u>552</u>	

Downstream Probe Thermocouple Readings

2772	1 <u>122</u>	2774	1 <u>-</u>	2777	1 <u>122</u>	3282	1 <u>125</u>	3284	1 <u>122</u>	3385	1 <u>126</u>
2	<u>45</u>	2	<u>-</u>	2	<u>102</u>	2	<u>104</u>	2	<u>105</u>	2	<u>106</u>
3	<u>134</u>	3	<u>-</u>	3	<u>114</u>	3	<u>138</u>	3	<u>-</u>	3	<u>122</u>
4	<u>134</u>	4	<u>42</u>	4	<u>116</u>	4	<u>117</u>	4	<u>125</u>	4	<u>124</u>
5	<u>122</u>	5	<u>-</u>	5	<u>112</u>	5	<u>128</u>	5	<u>111</u>	5	<u>118</u>
6	<u>122</u>	6	<u>40</u>	6	<u>104</u>	6	<u>108</u>	6	<u>122</u>	6	<u>115</u>
7	<u>106</u>	7		7	<u>115</u>	7	<u>111</u>	7	<u>122</u>	7	<u>122</u>
8	<u>116</u>	8		8	<u>112</u>	8	<u>114</u>	8	<u>48</u>	8	<u>118</u>

3685	1 <u>112</u>	3784	1 <u>120</u>	3887	1 <u>110</u>
2	<u>99</u>	2	<u>112</u>	2	<u>101</u>
3	<u>113</u>	3	<u>114</u>	3	<u>112</u>
4	<u>137</u>	4	<u>124</u>	4	<u>107</u>
5	<u>103</u>	5	<u>106</u>	5	<u>112</u>
6	<u>122</u>	6	<u>126</u>	6	<u>104</u>
7	<u>103</u>	7	<u>121</u>	7	<u>108</u>
8	<u>112</u>	8	<u>117</u>	8	<u>102</u>

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 11-4-61 Inlet Temperature 15.2 Pile Power Level 1815 Time 1302

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panelit Dial</u>	<u>Panelit Base</u>	<u>Front Header Pressure</u>	
2772	<u>106.3</u>	<u>6.1</u>		<u>56.3</u>	
2774	<u>105.8</u>	<u>4.6</u>		<u>56.3</u>	
2777	<u>110.8</u>	<u>4.1</u>		<u>56.3</u>	
3282	<u>114.0</u>	<u>1.7</u>		<u>56.7</u>	
3284	<u>115.5</u>	<u>1.5</u>		<u>56.7</u>	
3385	<u>116.0</u>	<u>1.8</u>		<u>56.8</u>	
3685	<u>111.7</u>	<u>1.3</u>		<u>56.4</u>	
3784	<u>115.7</u>	<u>1.9</u>		<u>56.7</u>	
3887	<u>104.3</u>	<u>4.2</u>		<u>57.6</u>	

Downstream Probe Thermocouple Readings

2772	1 <u>142</u>	2774	1 <u>—</u>	2777	1 <u>126</u>	3282	1 <u>131</u>	3284	1 <u>123</u>	3385	1 <u>126</u>
	2 <u>78</u>		2 <u>—</u>		2 <u>106</u>		2 <u>104</u>		2 <u>105</u>		2 <u>106</u>
	3 <u>139</u>		3 <u>—</u>		3 <u>104</u>		3 <u>100</u>		3 <u>100</u>		3 <u>102</u>
	4 <u>—</u>		4 <u>42</u>		4 <u>102</u>		4 <u>117</u>		4 <u>128</u>		4 <u>123</u>
	5 <u>106</u>		5 <u>—</u>		5 <u>115</u>		5 <u>129</u>		5 <u>111</u>		5 <u>118</u>
	6 <u>120</u>		6 <u>40</u>		6 <u>114</u>		6 <u>109</u>		6 <u>100</u>		6 <u>119</u>
	7 <u>104</u>		7 <u>—</u>		7 <u>120</u>		7 <u>112</u>		7 <u>100</u>		7 <u>122</u>
	8 <u>113</u>		8 <u>—</u>		8 <u>117</u>		8 <u>45</u>		8 <u>117</u>		8 <u>117</u>
3685	1 <u>112</u>	3784	1 <u>101</u>	3887	1 <u>110</u>						
	2 <u>58</u>		2 <u>112</u>		2 <u>101</u>						
	3 <u>10</u>		3 <u>10</u>		3 <u>112</u>						
	4 <u>134</u>		4 <u>105</u>		4 <u>100</u>						
	5 <u>100</u>		5 <u>100</u>		5 <u>110</u>						
	6 <u>122</u>		6 <u>100</u>		6 <u>100</u>						
	7 <u>100</u>		7 <u>100</u>		7 <u>100</u>						
	8 <u>112</u>		8 <u>100</u>		8 <u>100</u>						

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 8-12-61 Inlet Temperature 22.8 Pile Power Level 1435 Time 1430

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellet Dial</u>	<u>Panellet Base</u>	<u>Front Header Pressure</u>	
2772	75	51	198	559	
2774		52	200	559	
2777	75	53	198	559	
3282	75	54	199	559	
3284	75	55	200	559	
3385	75	56	200	559	
3685	75	57	200	559	
3784	75	58	200	559	
3887	75	59	200	559	

Downstream Probe Thermocouple Readings

2272	1	2774	1	2777	1	3282	1	3284	1	3385	1
	2		2		2		2		2		2
	3		3		3		3		3		3
	4		4		4		4		4		4
	5		5		5		5		5		5
	6		6		6		6		6		6
	7		7		7		7		7		7
	8		8		8		8		8		8
3685	1	3784	1	3887	1						
	2		2		2						
	3		3		3						
	4		4		4						
	5		5		5						
	6		6		6						
	7		7		7						
	8		8		8						

NOTE: Data to be taken daily during operation.

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as described in the Atomic Energy Act of 1954
and in the manner prescribed in the regulations
thereunder.

DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 4-13-61 Inlet Temperature 21.9 Pile Power Level 1650 Time 0830

Tube	Outlet Temperature	Panellit Dial	Panellit Base	Front Header Pressure	
2772	105	63	158	562	
2774	108.3	65	203	562	
2777	106	71	100	562	
3282	108	57	179	565	
3284	104.6	62	228	565	
3385	108	58	152	569	
3685	102.5	69	212	562	
3784	105	68	100	562	
3887	100	52	100	551	

Downstream Probe Thermocouple Readings

2272	1 118	2774	1 -	2777	1 117	3282	1 74	3284	1 101	3385	1 117
	2 103		2 -		2 99		2 100		2 100		2 103
	3 102		3 100		3 110		3 100		3 100		3 107
	4 100		4 98		4 100		4 100		4 100		4 110
	5 100		5 -		5 100		5 100		5 100		5 113
	6 100		6 100		6 100		6 100		6 100		6 111
	7 100		7 -		7 100		7 100		7 100		7 -
	8 100		8 -		8 100		8 100		8 100		8 109
3685	1 105	3784	1 114	3887	1 99						
	2 97		2 97		2 96						
	3 100		3 113		3 102						
	4 100		4 108		4 98						
	5 97		5 100		5 100						
	6 100		6 104		6 98						
	7 100		7 100		7 95						
	8 104		8 100		8 100						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 8-14-61 Inlet Temperature 22.4 Pile Power Level 16.65 Time 0900

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	<u>169.5</u>	<u>63</u>	<u>198</u>		
2774	<u>168.3</u>	<u>64</u>	<u>223</u>		
2777	<u>169.0</u>	<u>71</u>	<u>196</u>		
3282	<u>169.1</u>	<u>57</u>	<u>179</u>		
3284	<u>166.0</u>	<u>61</u>	<u>228</u>		
3385	<u>169.3</u>	<u>56</u>	<u>182</u>		
3685	<u>162.5</u>	<u>62</u>	<u>212</u>		
3784	<u>163.0</u>	<u>67</u>	<u>226</u>		
3887	<u>166.4</u>	<u>51</u>	<u>215</u>		

Downstream Probe Thermocouple Readings

2272	1 <u>118.0</u>	2774	1 <u>—</u>	2777	1 <u>115.0</u>	3282	1 <u>—</u>	3284	1 <u>121.0</u>	3385	1 <u>118.0</u>
	2 <u>96.0</u>		2 <u>—</u>		2 <u>101.0</u>		2 <u>—</u>		2 <u>100.0</u>		2 <u>114.0</u>
	3 <u>118.0</u>		3 <u>126.0</u>		3 <u>112.0</u>		3 <u>120.0</u>		3 <u>—</u>		3 <u>117.0</u>
	4 <u>111.0</u>		4 <u>53.0</u>		4 <u>110.0</u>		4 <u>133.0</u>		4 <u>133.0</u>		4 <u>115.0</u>
	5 <u>100.0</u>		5 <u>—</u>		5 <u>100.0</u>		5 <u>110.0</u>		5 <u>110.0</u>		5 <u>113.0</u>
	6 <u>106.0</u>		6 <u>53.0</u>		6 <u>110.0</u>		6 <u>110.0</u>		6 <u>110.0</u>		6 <u>112.0</u>
	7 <u>105.0</u>		7 <u>—</u>		7 <u>112.0</u>		7 <u>112.0</u>		7 <u>110.0</u>		7 <u>—</u>
	8 <u>106.0</u>		8 <u>—</u>		8 <u>110.0</u>		8 <u>110.0</u>		8 <u>110.0</u>		8 <u>110.0</u>
3685	1 <u>105.0</u>	3784	1 <u>115.0</u>	3887	1 <u>103.0</u>						
	2 <u>98.0</u>		2 <u>98.0</u>		2 <u>98.0</u>						
	3 <u>110.0</u>		3 <u>114.0</u>		3 <u>106.0</u>						
	4 <u>110.0</u>		4 <u>110.0</u>		4 <u>102.0</u>						
	5 <u>100.0</u>		5 <u>110.0</u>		5 <u>100.0</u>						
	6 <u>100.0</u>		6 <u>100.0</u>		6 <u>100.0</u>						
	7 <u>100.0</u>		7 <u>100.0</u>		7 <u>100.0</u>						
	8 <u>100.0</u>		8 <u>100.0</u>		8 <u>100.0</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UP-2 TEST, PT-IP-310-A-RP
D REACTOR

Date 8-15-61

Inlet Temperature 21.5

Pile Power Level 1655

Time 1730

Tube
Outlet Temperature

Panel 111t
Dial

Panel 111t
Base

Front Header
Pressure

2772 104.0
2774 108.9
2777 108.2
3282 108.4
3284 104.5
3385 108.6
3685 108.0
3784 101.2
3887 103.3

12
6.5
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19.8
22.3
19.6
17.9
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19.0
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22.6
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Downstream Probe Thermocouple Readings

2272

2774

2777

3282

3284

3385

3685

3784

3887

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NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 7-16-61 Inlet Temperature 22.1 Pile Power Level 1660 Time 0900

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	105	6.1	197	562	
2774	109.5	6.3	223	562	
2777	106.5	6.2	196	562	
3282	107.5	5.6	179	562	
3284	108	6.2	222	562	
3385	105.5	5.2	192	562	
3685	107.5	6.3	212	563	
3784	108	6.5	226	563	
3887	106	6.6	215	563	

Downstream Probe Thermocouple Readings

2272	1 102	2 101	3 100	4 100	5 100	6 100	7 100	8 100
2774	1 101	2 101	3 101	4 101	5 101	6 101	7 101	8 101
2777	1 100	2 100	3 100	4 100	5 100	6 100	7 100	8 100
3282	1 100	2 100	3 100	4 100	5 100	6 100	7 100	8 100
3284	1 100	2 100	3 100	4 100	5 100	6 100	7 100	8 100
3385	1 100	2 100	3 100	4 100	5 100	6 100	7 100	8 100
3685	1 100	2 100	3 100	4 100	5 100	6 100	7 100	8 100
3784	1 100	2 100	3 100	4 100	5 100	6 100	7 100	8 100
3887	1 100	2 100	3 100	4 100	5 100	6 100	7 100	8 100

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 8-17-61 Inlet Temperature 21.3 Pile Power Level 1665 Time 1830

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>
2772	<u>105.0</u>	<u>63</u>	<u>198</u>	<u>56.0</u>
2774	<u>109.5</u>	<u>66</u>	<u>223</u>	<u>56.5</u>
2777	<u>108.6</u>	<u>71</u>	<u>196</u>	<u>56.0</u>
3282	<u>108.5</u>	<u>57</u>	<u>179</u>	<u>56.6</u>
3284	<u>107.6</u>	<u>52</u>	<u>228</u>	<u>56.6</u>
3385	<u>107.3</u>	<u>55</u>	<u>182</u>	<u>56.7</u>
3685	<u>101.5</u>	<u>52</u>	<u>212</u>	<u>56.1</u>
3784	<u>106.5</u>	<u>55</u>	<u>226</u>	<u>56.1</u>
3887	<u>99.5</u>	<u>55</u>	<u>215</u>	<u>56.0</u>

Downstream Probe Thermocouple Readings

2272	1 <u>121</u>	2774	1 <u>—</u>	2777	1 <u>119</u>	3282	1 <u>85</u>	3284	1 <u>121</u>	3385	1 <u>117</u>
	2 <u>97</u>		2 <u>—</u>		2 <u>101</u>		2 <u>100</u>		2 <u>108</u>		2 <u>103</u>
	3 <u>120</u>		3 <u>123</u>		3 <u>114</u>		3 <u>122</u>		3 <u>—</u>		3 <u>116</u>
	4 <u>112</u>		4 <u>53</u>		4 <u>115</u>		4 <u>123</u>		4 <u>122</u>		4 <u>114</u>
	5 <u>111</u>		5 <u>—</u>		5 <u>107</u>		5 <u>114</u>		5 <u>116</u>		5 <u>112</u>
	6 <u>107</u>		6 <u>52</u>		6 <u>110</u>		6 <u>107</u>		6 <u>113</u>		6 <u>111</u>
	7 <u>108</u>		7 <u>—</u>		7 <u>112</u>		7 <u>112</u>		7 <u>114</u>		7 <u>54</u>
	8 <u>107</u>		8 <u>—</u>		8 <u>110</u>		8 <u>111</u>		8 <u>55</u>		8 <u>110</u>
3685	1 <u>107</u>	3784	1 <u>116</u>	3887	1 <u>102</u>						
	2 <u>100</u>		2 <u>98</u>		2 <u>98</u>						
	3 <u>105</u>		3 <u>114</u>		3 <u>107</u>						
	4 <u>—</u>		4 <u>111</u>		4 <u>100</u>						
	5 <u>98</u>		5 <u>106</u>		5 <u>105</u>						
	6 <u>122</u>		6 <u>106</u>		6 <u>99</u>						
	7 <u>108</u>		7 <u>109</u>		7 <u>101</u>						
	8 <u>107</u>		8 <u>107</u>		8 <u>101</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UP-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 12-21-61 Inlet Temperature 23.1 Pile Power Level 1612 Time 0000

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panelit Dial</u>	<u>Panelit Base</u>	<u>Front Header Pressure</u>	
2772	<u>109.5</u>	<u>61</u>	<u>198</u>	<u>52.0</u>	
2774	<u>107</u>	<u>64</u>	<u>223</u>	<u>52.0</u>	
2777	<u>104.5</u>	<u>58</u>	<u>106</u>	<u>52.0</u>	
3282	<u>101</u>	<u>56</u>	<u>124</u>	<u>52.6</u>	
3284	<u>100.5</u>	<u>61</u>	<u>221</u>	<u>52.6</u>	
3385	<u>100</u>	<u>57</u>	<u>188</u>	<u>52.7</u>	
3685	<u>100</u>	<u>52</u>	<u>212</u>	<u>52.1</u>	
3784	<u>100.5</u>	<u>57</u>	<u>222</u>	<u>52.1</u>	
3887	<u>100.5</u>	<u>52</u>	<u>210</u>	<u>52</u>	

Downstream Probe Thermocouple Readings

2272	1 <u>118</u>	2774	1 <u>-</u>	2777	1 <u>116</u>	3282	1 <u>117</u>	3284	1 <u>122</u>	3385	1 <u>112</u>
	2 <u>116</u>		2 <u>-</u>		2 <u>115.5</u>		2 <u>105</u>		2 <u>111</u>		2 <u>107</u>
	3 <u>112.2</u>		3 <u>116</u>		3 <u>112</u>		3 <u>105.5</u>		3 <u>-</u>		3 <u>116</u>
	4 <u>110.0</u>		4 <u>110</u>		4 <u>112.7</u>		4 <u>106</u>		4 <u>122.5</u>		4 <u>115</u>
	5 <u>107.5</u>		5 <u>-</u>		5 <u>111</u>		5 <u>110</u>		5 <u>116.5</u>		5 <u>113</u>
	6 <u>105</u>		6 <u>10</u>		6 <u>105</u>		6 <u>114</u>		6 <u>117.5</u>		6 <u>115</u>
	7 <u>101.7</u>		7 <u>-</u>		7 <u>116.5</u>		7 <u>116</u>		7 <u>115</u>		7 <u>-</u>
	8 <u>100</u>		8 <u>-</u>		8 <u>101.5</u>		8 <u>110</u>		8 <u>113</u>		8 <u>114</u>
3685	1 <u>111</u>	3784	1 <u>119</u>	3887	1 <u>116</u>						
	2 <u>105</u>		2 <u>109.5</u>		2 <u>106</u>						
	3 <u>105</u>		3 <u>119</u>		3 <u>105</u>						
	4 <u>103</u>		4 <u>115</u>		4 <u>109.5</u>						
	5 <u>101</u>		5 <u>111</u>		5 <u>105</u>						
	6 <u>104</u>		6 <u>111</u>		6 <u>105</u>						
	7 <u>116</u>		7 <u>119</u>		7 <u>107</u>						
	8 <u>110</u>		8 <u>112</u>		8 <u>104</u>						

NOTE: Data to be taken daily during operation.

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DECLASSIFIED

DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 5-22-61 Inlet Temperature 230 Pile Power Level 630 Time 1515

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>
2772	<u>11.5</u>	<u>63</u>	<u>195</u>	<u>560</u>
2774	<u>12.0</u>	<u>66</u>	<u>223</u>	<u>560</u>
2777	<u>10.5</u>	<u>61</u>	<u>166</u>	<u>560</u>
3282	<u>11.0</u>	<u>58</u>	<u>170</u>	<u>560</u>
3284	<u>10.5</u>	<u>62</u>	<u>228</u>	<u>566</u>
3385	<u>16.6</u>	<u>57</u>	<u>122</u>	<u>567</u>
3685	<u>11.0</u>	<u>57</u>	<u>212</u>	<u>561</u>
3784	<u>10.5</u>	<u>65</u>	<u>220</u>	<u>561</u>
3887	<u>6.3</u>	<u>60</u>	<u>212</u>	<u>561</u>

Downstream Probe Thermocouple Readings

2272	1 <u>10.5</u>	2774	1 <u>—</u>	2777	1 <u>12.1</u>	3282	1 <u>12.1</u>	3284	1 <u>11.5</u>	3385	1 <u>11.3</u>
	2 <u>10.2</u>		2 <u>—</u>		2 <u>10.5</u>		2 <u>10.4</u>		2 <u>10.5</u>		2 <u>10.2</u>
	3 <u>10.1</u>		3 <u>10.0</u>		3 <u>11.5</u>		3 <u>11.5</u>		3 <u>—</u>		3 <u>11.5</u>
	4 <u>10.0</u>		4 <u>5.1</u>		4 <u>11.7</u>		4 <u>10.6</u>		4 <u>12.0</u>		4 <u>11.2</u>
	5 <u>11.5</u>		5 <u>—</u>		5 <u>10.2</u>		5 <u>11.0</u>		5 <u>11.3</u>		5 <u>10.5</u>
	6 <u>11.5</u>		6 <u>5.0</u>		6 <u>11.3</u>		6 <u>10.2</u>		6 <u>11.4</u>		6 <u>11.6</u>
	7 <u>11.4</u>		7 <u>—</u>		7 <u>11.1</u>		7 <u>10.0</u>		7 <u>11.0</u>		7 <u>—</u>
	8 <u>11.4</u>		8 <u>—</u>		8 <u>11.4</u>		8 <u>11.4</u>		8 <u>5.3</u>		8 <u>10.5</u>
3685	1 <u>11.4</u>	3784	1 <u>11.0</u>	3887	1 <u>10.5</u>						
	2 <u>11.5</u>		2 <u>10.5</u>		2 <u>9.1</u>						
	3 <u>11.5</u>		3 <u>10.5</u>		3 <u>10.0</u>						
	4 <u>11.5</u>		4 <u>10.0</u>		4 <u>9.0</u>						
	5 <u>11.5</u>		5 <u>10.5</u>		5 <u>10.0</u>						
	6 <u>11.5</u>		6 <u>10.0</u>		6 <u>9.2</u>						
	7 <u>11.5</u>		7 <u>10.5</u>		7 <u>9.4</u>						
	8 <u>11.5</u>		8 <u>10.4</u>		8 <u>9.0</u>						

NOTE: Data to be taken daily during operation.

(When Filled In)

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DECLASSIFIED

DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 9-22-61 Inlet Temperature 23.2 Pile Power Level 16.3 Time 8:00

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	88	61	198	520	
2774	5.5	2.8	3.2	520	
2777	880	88	102	520	
3282	101.4	56	17.2	520	
3284	104.7	62	22.8	520	
3385	112.2	58	18.0	520	
3685	113.1	53	22.2	520	
3784	113.2	64	22.6	520	
3887	104.0	52	22.5	520	

Downstream Probe Thermocouple Readings

2272	1 109 2 10 3 10 4 10 5 10 6 10 7 10 8 10	2774	1 — 2 — 3 103 4 53 5 — 6 52 7 — 8 —	2777	1 104 2 10 3 102 4 100 5 10 6 10 7 10 8 10	3282	1 8.2 2 9.8 3 11.5 4 11.0 5 11.2 6 10.6 7 10.8 8 10.7	3284	1 10 2 10 3 10 4 10 5 10 6 10 7 10 8 10	3385	1 118 2 105 3 116 4 118 5 112 6 114 7 114 8 112
3685	1 114 2 108 3 116 4 127 5 102 6 130 7 114 8 114	3784	1 123 2 104 3 122 4 119 5 113 6 114 7 116 8 115	3887	1 111 2 101 3 114 4 104 5 113 6 108 7 116 8 104						

NOTE: Data to be taken daily during operation.

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DECLASSIFIED

DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 8-24-61 Inlet Temperature 22.6 Pile Power Level 1635 Time 0830

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panelit Dial</u>	<u>Panelit Base</u>	<u>Front Header Pressure</u>
2772	<u>99.5</u>	<u>60</u>	<u>198</u>	<u>560</u>
2774	<u>102.8</u>	<u>63</u>	<u>223</u>	<u>560</u>
2777	<u>99.5</u>	<u>57</u>	<u>196</u>	<u>560</u>
3282	<u>103.0</u>	<u>57</u>	<u>174</u>	<u>566</u>
3284	<u>103.5</u>	<u>62</u>	<u>228</u>	<u>566</u>
3385	<u>112.5</u>	<u>58</u>	<u>182</u>	<u>567</u>
3685	<u>110.5</u>	<u>53</u>	<u>212</u>	<u>561</u>
3784	<u>110.0</u>	<u>68</u>	<u>226</u>	<u>561</u>
3887	<u>105.0</u>	<u>50</u>	<u>215</u>	<u>661</u>

Downstream Probe Thermocouple Readings

2272	1 <u>114</u>	2774	1 <u>—</u>	2777	1 <u>108</u>	3282	1 <u>80</u>	3284	1 <u>116</u>	3385	1 <u>116</u>
	2 <u>92</u>		2 <u>—</u>		2 <u>94</u>		2 <u>100</u>		2 <u>105</u>		2 <u>104</u>
	3 <u>109</u>		3 <u>113</u>		3 <u>106</u>		3 <u>120</u>		3 <u>—</u>		3 <u>114</u>
	4 <u>111</u>		4 <u>54</u>		4 <u>105</u>		4 <u>112</u>		4 <u>119</u>		4 <u>110</u>
	5 <u>104</u>		5 <u>—</u>		5 <u>100</u>		5 <u>114</u>		5 <u>111</u>		5 <u>111</u>
	6 <u>104</u>		6 <u>51</u>		6 <u>101</u>		6 <u>108</u>		6 <u>121</u>		6 <u>121</u>
	7 <u>103</u>		7 <u>—</u>		7 <u>104</u>		7 <u>111</u>		7 <u>114</u>		7 <u>54</u>
	8 <u>103</u>		8 <u>—</u>		8 <u>102</u>		8 <u>109</u>		8 <u>54</u>		8 <u>112</u>
3685	1 <u>112</u>	3784	1 <u>121</u>	3887	1 <u>107</u>						
	2 <u>106</u>		2 <u>103</u>		2 <u>103</u>						
	3 <u>108</u>		3 <u>119</u>		3 <u>110</u>						
	4 <u>125</u>		4 <u>118</u>		4 <u>104</u>						
	5 <u>101</u>		5 <u>111</u>		5 <u>109</u>						
	6 <u>120</u>		6 <u>113</u>		6 <u>104</u>						
	7 <u>112</u>		7 <u>115</u>		7 <u>106</u>						
	8 <u>112</u>		8 <u>113</u>		8 <u>105</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date _____ Inlet Temperature _____ Pile Power Level _____ Time _____

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	_____	_____	_____	_____	_____
2774	_____	_____	_____	_____	_____
2777	_____	_____	_____	_____	_____
3282	_____	_____	_____	_____	_____
3284	_____	_____	_____	_____	_____
3385	_____	_____	_____	_____	_____
3685	_____	_____	_____	_____	_____
3784	_____	_____	_____	_____	_____
3887	_____	_____	_____	_____	_____

Downstream Probe Thermocouple Readings

2272	1 _____	2774	1 _____	2777	1 _____	3282	1 _____	3284	1 _____	3385	1 _____
	2 _____		2 _____		2 _____		2 _____		2 _____		2 _____
	3 _____		3 _____		3 _____		3 _____		3 _____		3 _____
	4 _____		4 _____		4 _____		4 _____		4 _____		4 _____
	5 _____		5 _____		5 _____		5 _____		5 _____		5 _____
	6 _____		6 _____		6 _____		6 _____		6 _____		6 _____
	7 _____		7 _____		7 _____		7 _____		7 _____		7 _____
	8 _____		8 _____		8 _____		8 _____		8 _____		8 _____
3685	1 _____	3784	1 _____	3887	1 _____						
	2 _____		2 _____		2 _____						
	3 _____		3 _____		3 _____						
	4 _____		4 _____		4 _____						
	5 _____		5 _____		5 _____						
	6 _____		6 _____		6 _____						
	7 _____		7 _____		7 _____						
	8 _____		8 _____		8 _____						

NOTE: Data to be taken daily during operation.

[REDACTED]
(When Filled In)

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 9-29-61 Inlet Temperature 21.4 Pile Power Level 1660 Time 1900

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panelit Dial</u>	<u>Panelit Base</u>	<u>Front Header Pressure</u>
2772	<u>102.8</u>	<u>6.1</u>	<u>198</u>	<u>56.1</u>
2774	<u>107.1</u>	<u>6.5</u>	<u>223</u>	<u>56.1</u>
2777	<u>105.2</u>	<u>6.0</u>	<u>206</u>	<u>56.1</u>
3282	<u>112.2</u>	<u>5.9</u>	<u>214</u>	<u>55.5</u>
3284	<u>111.9</u>	<u>6.4</u>	<u>228</u>	<u>56.3</u>
3385	<u>116.1</u>	<u>5.9</u>	<u>217</u>	<u>56.8</u>
3685	<u>109.4</u>	<u>5.2</u>	<u>221</u>	<u>56.2</u>
3784	<u>107.2</u>	<u>6.8</u>	<u>226</u>	<u>56.2</u>
3887	<u>102.6</u>	<u>5.1</u>	<u>215</u>	<u>56.1</u>

Downstream Probe Thermocouple Readings

2272	1 <u>116</u>	2774	1 <u>—</u>	2777	1 <u>112</u>	3282	1 <u>—</u>	3284	1 <u>122</u>	3385	1 <u>119</u>
	2 <u>94</u>		2 <u>—</u>		2 <u>108</u>		2 <u>103</u>		2 <u>108</u>		2 <u>106</u>
	3 <u>111</u>		3 <u>—</u>		3 <u>100</u>		3 <u>127</u>		3 <u>—</u>		3 <u>116</u>
	4 <u>114</u>		4 <u>5.2</u>		4 <u>110</u>		4 <u>117</u>		4 <u>120</u>		4 <u>119</u>
	5 <u>—</u>		5 <u>—</u>		5 <u>105</u>		5 <u>120</u>		5 <u>—</u>		5 <u>114</u>
	6 <u>—</u>		6 <u>5.8</u>		6 <u>106</u>		6 <u>13</u>		6 <u>110</u>		6 <u>115</u>
	7 <u>—</u>		7 <u>3.2</u>		7 <u>109</u>		7 <u>110</u>		7 <u>112</u>		7 <u>115</u>
	8 <u>—</u>		8 <u>—</u>		8 <u>108</u>		8 <u>112</u>		8 <u>114</u>		8 <u>114</u>
3685	1 <u>109</u>	3784	1 <u>17</u>	3887	1 <u>105</u>						
	2 <u>104</u>		2 <u>—</u>		2 <u>102</u>						
	3 <u>107</u>		3 <u>1.3</u>		3 <u>108</u>						
	4 <u>118</u>		4 <u>11.5</u>		4 <u>103</u>						
	5 <u>101</u>		5 <u>1.7</u>		5 <u>109</u>						
	6 <u>122</u>		6 <u>—</u>		6 <u>103</u>						
	7 <u>110</u>		7 <u>11.2</u>		7 <u>—</u>						
	8 <u>109</u>		8 <u>11.0</u>		8 <u>106</u>						

NOTE: Data to be taken daily during operation.

(When Filled In)

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 9-8-61 Inlet Temperature 20.0 Pile Power Level 1670 Time 0945

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	<u>102.0</u>	<u>61</u>	<u>148</u>	<u>50</u>	
2774	<u>105.7</u>	<u>65</u>	<u>173</u>	<u>50</u>	
2777	<u>104.5</u>	<u>60</u>	<u>160</u>	<u>50</u>	
3282	<u>107.0</u>	<u>59</u>	<u>210</u>	<u>50</u>	
3284	<u>105.5</u>	<u>62</u>	<u>228</u>	<u>50</u>	
3385	<u>107.8</u>	<u>64</u>	<u>210</u>	<u>50</u>	
3685	<u>108.3</u>	<u>62</u>	<u>12</u>	<u>50</u>	
3784	<u>108.7</u>	<u>61</u>	<u>220</u>	<u>50</u>	
3887	<u>99.3</u>	<u>51</u>	<u>225</u>	<u>50</u>	

Downstream Probe Thermocouple Readings

2272	1 <u>118</u>	2774	1 <u>132</u>	2777	1 <u>118</u>	3282	1 <u>116</u>	3284	1 <u>115</u>	3385	1 <u>121</u>
	2 <u>95</u>		2 <u>113</u>		2 <u>112</u>		2 <u>120</u>		2 <u>113</u>		2 <u>115</u>
	3 <u>108</u>		3 <u>116</u>		3 <u>118</u>		3 <u>127</u>		3 <u>116</u>		3 <u>120</u>
	4 <u>10</u>		4 <u>96</u>		4 <u>117</u>		4 <u>121</u>		4 <u>122</u>		4 <u>121</u>
	5 <u>106</u>		5 <u>116</u>		5 <u>115</u>		5 <u>126</u>		5 <u>115</u>		5 <u>116</u>
	6 <u>103</u>		6 <u>11</u>		6 <u>113</u>		6 <u>121</u>		6 <u>120</u>		6 <u>118</u>
	7 <u>105</u>		7 <u>118</u>		7 <u>116</u>		7 <u>127</u>		7 <u>120</u>		7 <u>119</u>
	8 <u>104</u>		8 <u>110</u>		8 <u>115</u>		8 <u>126</u>		8 <u>76</u>		8 <u>117</u>
3685	1 <u>114</u>	3784	1 <u>120</u>	3887	1 <u>106</u>						
	2 <u>73</u>		2 <u>102</u>		2 <u>101</u>						
	3 <u>112</u>		3 <u>130</u>		3 <u>110</u>						
	4 <u>119</u>		4 <u>118</u>		4 <u>104</u>						
	5 <u>101</u>		5 <u>111</u>		5 <u>108</u>						
	6 <u>121</u>		6 <u>114</u>		6 <u>103</u>						
	7 <u>115</u>		7 <u>113</u>		7 <u>105</u>						
	8 <u>114</u>		8 <u>107</u>		8 <u>104</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

(7 PUMP OPER)

Date 9-11-61 Inlet Temperature 21.2 Pile Power Level 1475 Time 0900

Tube	Outlet Temperature	Panellit Dial	Panellit Base	Front Header Pressure
2772	<u>102.3</u>	<u>47</u>	<u>527</u>	
2774	<u>104.5</u>	<u>51</u>		
2777	<u>101.2</u>	<u>46</u>		
3282	<u>105.6</u>	<u>41</u>		
3284	<u>105.6</u>	<u>46</u>		
3385	<u>107.2</u>	<u>45</u>		
3685	<u>106.2</u>	<u>56</u>		
3784	<u>106.7</u>	<u>40</u>		
3887	<u>91.2</u>	<u>43</u>		

Downstream Probe Thermocouple Readings

2272	1 <u>104</u> 2 <u>94</u> 3 <u>103</u> 4 <u>100</u> 5 <u>107</u> 6 <u>109</u> 7 <u>104</u> 8 <u>108</u>	2774	1 <u>—</u> 2 <u>—</u> 3 <u>115</u> 4 <u>52</u> 5 <u>—</u> 6 <u>—</u> 7 <u>—</u> 8 <u>—</u>	2777	1 <u>111</u> 2 <u>98</u> 3 <u>112</u> 4 <u>105</u> 5 <u>108</u> 6 <u>105</u> 7 <u>108</u> 8 <u>106</u>	3282	1 <u>117</u> 2 <u>107</u> 3 <u>120</u> 4 <u>109</u> 5 <u>115</u> 6 <u>109</u> 7 <u>110</u> 8 <u>109</u>	3284	1 <u>112</u> 2 <u>110</u> 3 <u>—</u> 4 <u>110</u> 5 <u>108</u> 6 <u>110</u> 7 <u>110</u> 8 <u>—</u>	3385	1 <u>115</u> 2 <u>104</u> 3 <u>113</u> 4 <u>115</u> 5 <u>110</u> 6 <u>111</u> 7 <u>—</u> 8 <u>115</u>
3685	1 <u>116</u> 2 <u>—</u> 3 <u>113</u> 4 <u>110</u> 5 <u>108</u> 6 <u>110</u> 7 <u>110</u> 8 <u>110</u>	3784	1 <u>118</u> 2 <u>111</u> 3 <u>117</u> 4 <u>116</u> 5 <u>109</u> 6 <u>112</u> 7 <u>112</u> 8 <u>110</u>	3887	1 <u>113</u> 2 <u>114</u> 3 <u>111</u> 4 <u>112</u> 5 <u>114</u> 6 <u>115</u> 7 <u>114</u> 8 <u>114</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 7-12-61 Inlet Temperature 21.1 Pile Power Level 1595 Time 0845

Tube	Outlet Temperature	Panellit Dial	Panellit Base	Front Header Pressure
2772	105.6	47	7 RMP open	
2774	105.7	47	N. R. R.	
2777	105.4	46		
3282	105.3	41		
3284	105.5	46		
3385	105.6	45		
3685	105.2	45		
3784	105.2	45		
3887	105.2	44		

Downstream Probe Thermocouple Readings

2272	1 <u>11.9</u> 2 <u>10.8</u> 3 <u>11.5</u> 4 <u>12.5</u> 5 <u>11.7</u> 6 <u>11.3</u> 7 <u>11.2</u> 8 <u>11.2</u>	2774	1 <u>11.1</u> 2 <u>11.1</u> 3 <u>12.0</u> 4 <u>11.0</u> 5 <u>11.1</u> 6 <u>11.1</u> 7 <u>11.1</u> 8 <u>11.1</u>	2777	1 <u>11.5</u> 2 <u>11.4</u> 3 <u>11.7</u> 4 <u>11.0</u> 5 <u>11.2</u> 6 <u>11.2</u> 7 <u>11.4</u> 8 <u>11.2</u>	3282	1 <u>12.4</u> 2 <u>10.0</u> 3 <u>12.2</u> 4 <u>11.1</u> 5 <u>12.3</u> 6 <u>11.0</u> 7 <u>11.7</u> 8 <u>11.6</u>	3284	1 <u>12.2</u> 2 <u>10.5</u> 3 <u>11.1</u> 4 <u>12.0</u> 5 <u>11.0</u> 6 <u>12.0</u> 7 <u>12.0</u> 8 <u>11.6</u>	3385	1 <u>12.2</u> 2 <u>11.5</u> 3 <u>12.0</u> 4 <u>12.2</u> 5 <u>11.8</u> 6 <u>12.0</u> 7 <u>11.4</u> 8 <u>11.5</u>
3685	1 <u>11.3</u> 2 <u>10.6</u> 3 <u>10.6</u> 4 <u>12.3</u> 5 <u>11.2</u> 6 <u>12.5</u> 7 <u>11.4</u> 8 <u>11.3</u>	3784	1 <u>12.5</u> 2 <u>10.0</u> 3 <u>12.0</u> 4 <u>12.3</u> 5 <u>11.5</u> 6 <u>11.5</u> 7 <u>11.5</u> 8 <u>11.5</u>	3887	1 <u>11.9</u> 2 <u>11.5</u> 3 <u>11.1</u> 4 <u>11.7</u> 5 <u>11.2</u> 6 <u>11.5</u> 7 <u>11.7</u> 8 <u>11.7</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-PP
D REACTOR

Date 9-13-61 Inlet Temperature 20.1 Pile Power Level 1655 Time 0935

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panel lit Dial</u>	<u>Panel lit Base</u>	<u>Front Header Pressure</u>	
2772	<u>102.5</u>	<u>60</u>			
2774	<u>104.4</u>	<u>66</u>			
2777	<u>103.6</u>	<u>61</u>			
3282	<u>109.2</u>	<u>57</u>			
3284	<u>111.1</u>	<u>62</u>			
3385	<u>112.5</u>	<u>63</u>			
3685	<u>109.6</u>	<u>52</u>			
3784	<u>111.5</u>	<u>61</u>			
3887	<u>101.6</u>	<u>54</u>			

Downstream Probe Thermocouple Readings

2272	1 <u>113</u>	2774	1 <u>-</u>	2777	1 <u>110</u>	3282	1 <u>125</u>	3284	1 <u>117</u>	3385	1 <u>114</u>
	2 <u>105</u>		2 <u>-</u>		2 <u>105</u>		2 <u>105</u>		2 <u>105</u>		2 <u>105</u>
	3 <u>100</u>		3 <u>112</u>		3 <u>112</u>		3 <u>112</u>		3 <u>112</u>		3 <u>112</u>
	4 <u>100</u>		4 <u>100</u>		4 <u>112</u>		4 <u>112</u>		4 <u>121</u>		4 <u>112</u>
	5 <u>106</u>		5 <u>-</u>		5 <u>110</u>		5 <u>110</u>		5 <u>110</u>		5 <u>115</u>
	6 <u>107</u>		6 <u>100</u>		6 <u>100</u>		6 <u>100</u>		6 <u>100</u>		6 <u>115</u>
	7 <u>100</u>		7 <u>-</u>		7 <u>100</u>		7 <u>100</u>		7 <u>100</u>		7 <u>102</u>
	8 <u>100</u>		8 <u>-</u>		8 <u>100</u>		8 <u>100</u>		8 <u>100</u>		8 <u>100</u>
3685	1 <u>100</u>	3784	1 <u>122</u>	3887	1 <u>100</u>						
	2 <u>-</u>		2 <u>114</u>		2 <u>-</u>						
	3 <u>100</u>		3 <u>120</u>		3 <u>100</u>						
	4 <u>100</u>		4 <u>100</u>		4 <u>100</u>						
	5 <u>100</u>		5 <u>100</u>		5 <u>100</u>						
	6 <u>100</u>		6 <u>100</u>		6 <u>100</u>						
	7 <u>100</u>		7 <u>100</u>		7 <u>100</u>						
	8 <u>100</u>		8 <u>100</u>		8 <u>100</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 9-14-61 Inlet Temperature 21.6 Pile Power Level 16.85 Time 6:00

Tube	Outlet Temperature	Panellit Dial	Panellit Base	Front Header Pressure	
2772	104.1	108	199	56.3	
2774	103.2	108	225	56.3	
2777	104.6	102	218	56.3	
3282	110.4	55	215	56.1	
3284	110.9	104	229	56.7	
3385	112.1	65	234	57.0	
3685	112.4	102	234	56.0	
3784	105.1	65	247	56.4	
3887	95.2	47	215	56.2	

Downstream Probe Thermocouple Readings

2272	1 110 2 110 3 110 4 110 5 110 6 110 7 110 8 110	2774	1 110 2 110 3 110 4 110 5 110 6 110 7 110 8 110	2777	1 110 2 110 3 110 4 110 5 110 6 110 7 110 8 110	3282	1 110 2 110 3 110 4 110 5 110 6 110 7 110 8 110	3284	1 110 2 110 3 110 4 110 5 110 6 110 7 110 8 110	3385	1 115 2 115 3 115 4 115 5 115 6 115 7 115 8 115
3685	1 110 2 110 3 110 4 110 5 110 6 110 7 110 8 110	3784	1 110 2 110 3 110 4 110 5 110 6 110 7 110 8 110	3887	1 110 2 110 3 110 4 110 5 110 6 110 7 110 8 110						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date Inlet Temperature 9 Pile Power Level 165 Time 2:55

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	166.3	62	199	564	
2774	165	65	202	564	
2777	163	63	216	564	
3282	5	54	215	568	
3284	5	65	208	564	
3385	5	65	207	57	
3685	5	53	204	565	
3784	5	61	217	565	
3887	5	58	2219	565	

Downstream Probe Thermocouple Readings

2772	1 <u>117</u> 2 <u>20</u> 3 <u> </u> 4 <u> </u> 5 <u>107</u> 6 <u>111</u> 7 <u>107</u> 8 <u>107</u>	2774	1 <u> </u> 2 <u> </u> 3 <u>115</u> 4 <u>50</u> 5 <u> </u> 6 <u>55</u> 7 <u> </u> 8 <u> </u>	2777	1 <u>116</u> 2 <u>100</u> 3 <u>116</u> 4 <u>113</u> 5 <u>110</u> 6 <u>105</u> 7 <u> </u> 8 <u> </u>	3282	1 <u>122</u> 2 <u>100</u> 3 <u>120</u> 4 <u>117</u> 5 <u>100</u> 6 <u>111</u> 7 <u> </u> 8 <u> </u>	3284	1 <u>100</u> 2 <u>105</u> 3 <u> </u> 4 <u>123</u> 5 <u>112</u> 6 <u>116</u> 7 <u> </u> 8 <u> </u>	3385	1 <u>120</u> 2 <u> </u> 3 <u>115</u> 4 <u>100</u> 5 <u> </u> 6 <u> </u> 7 <u>101</u> 8 <u>115</u>
3685	1 <u>105</u> 2 <u>105</u> 3 <u>104</u> 4 <u>115</u> 5 <u>95</u> 6 <u>101</u> 7 <u>105</u> 8 <u>105</u>	3784	1 <u> </u> 2 <u> </u> 3 <u>116</u> 4 <u>117</u> 5 <u>105</u> 6 <u>111</u> 7 <u> </u> 8 <u> </u>	3887	1 <u> </u> 2 <u> </u> 3 <u>107</u> 4 <u>103</u> 5 <u> </u> 6 <u> </u> 7 <u> </u> 8 <u> </u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT IP-310-A-FP
D REACTOR

Date 9-18-61 Inlet Temperature 20.3 Pile Power Level 1345 Time 0830

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panel lit Dial</u>	<u>Panel lit Base</u>	<u>Front Header Pressure</u>	
2772	85	60	179	5.57	
2774	87	63	225	5.57	
2777	87.8	58	215	5.57	
3282	86.3	52	215	5.57	
3284	94.2	58	225	5.57	
3385	94.3	57	227	5.57	
3685	52.6	53	224	5.57	
3784	85.3	53	247	5.57	
3887	91.3	54	219	5.57	

Downstream Probe Thermocouple Readings

2272	1 <u>76</u> 2 <u>77</u> 3 <u>78</u> 4 <u>79</u> 5 <u>80</u> 6 <u>81</u> 7 <u>82</u> 8 <u>83</u>	2774	1 <u>77</u> 2 <u>78</u> 3 <u>79</u> 4 <u>80</u> 5 <u>81</u> 6 <u>82</u> 7 <u>83</u> 8 <u>84</u>	2777	1 <u>77</u> 2 <u>78</u> 3 <u>79</u> 4 <u>80</u> 5 <u>81</u> 6 <u>82</u> 7 <u>83</u> 8 <u>84</u>	3282	1 <u>76</u> 2 <u>77</u> 3 <u>78</u> 4 <u>79</u> 5 <u>80</u> 6 <u>81</u> 7 <u>82</u> 8 <u>83</u>	3284	1 <u>76</u> 2 <u>77</u> 3 <u>78</u> 4 <u>79</u> 5 <u>80</u> 6 <u>81</u> 7 <u>82</u> 8 <u>83</u>	3385	1 <u>76</u> 2 <u>77</u> 3 <u>78</u> 4 <u>79</u> 5 <u>80</u> 6 <u>81</u> 7 <u>82</u> 8 <u>83</u>
3685	1 <u>56</u> 2 <u>57</u> 3 <u>58</u> 4 <u>59</u> 5 <u>60</u> 6 <u>61</u> 7 <u>62</u> 8 <u>63</u>	3784	1 <u>54</u> 2 <u>55</u> 3 <u>56</u> 4 <u>57</u> 5 <u>58</u> 6 <u>59</u> 7 <u>60</u> 8 <u>61</u>	3887	1 <u>57</u> 2 <u>58</u> 3 <u>59</u> 4 <u>60</u> 5 <u>61</u> 6 <u>62</u> 7 <u>63</u> 8 <u>64</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 9-19-61 Inlet Temperature 102 Pile Power Level 1600 Time 0800

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	109.1	55	199	500	
2774	112.2	55	225	500	
2777	108.8	55	216	500	
3282	105.7	58	215	500	
3284	103.4	64	226	500	
3385	103.1	64	229	500	
3685	101	54	227	500	
3784	102.2	61	247	504	
3887	94.4	59	219	552	

Downstream Probe Thermocouple Readings

2772	1 121	2774	1 -	2777	1 -	3282	1 116	3284	1 110	3385	1 110
	2 99		2 -		2 -		2 105		2 97		2 98
	3 115		3 120		3 117		3 120		3 -		3 105
	4 105		4 55		4 114		4 106		4 105		4 100
	5 110		5 -		5 112		5 114		5 102		5 105
	6 110		6 81		6 110		6 106		6 105		6 100
	7 110		7 -		7 113		7 105		7 105		7 105
	8 111		8 -		8 112		8 -		8 105		8 -
3685	1 102	3784	1 -	3887	1 -						
	2 -		2 -		2 -						
	3 100		3 112		3 -						
	4 100		4 115		4 52						
	5 43		5 105		5 101						
	6 114		6 112		6 77						
	7 105		7 110		7 55						
	8 105		8 105		8 52						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 7-20-61 Inlet Temperature 20 ° F Pile Power Level 16.55 Time 0815

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panel lit Dial</u>	<u>Panel lit Base</u>	<u>Front Header Pressure</u>	
2772	<u>100</u>	<u>6.3</u>	<u>199</u>	<u>563</u>	
2774	<u>103</u>	<u>6.7</u>	<u>225</u>	<u>563</u>	
2777	<u>103</u>	<u>4.3</u>	<u>215</u>	<u>563</u>	
3282	<u>112</u>	<u>5.9</u>	<u>215</u>	<u>564</u>	
3284	<u>113</u>	<u>6.6</u>	<u>228</u>	<u>566</u>	
3385	<u>112.7</u>	<u>6.5</u>	<u>229</u>	<u>567</u>	
3685	<u>105.5</u>	<u>5.3</u>	<u>224</u>	<u>564</u>	
3784	<u>104</u>	<u>6.2</u>	<u>24.7</u>	<u>564</u>	
3887	<u>99.3</u>	<u>5.5</u>	<u>21.7</u>	<u>552</u>	

Downstream Probe Thermocouple Readings

2272	<u>1 112</u> <u>2 112</u> <u>3 107</u> <u>4 113</u> <u>5 104</u> <u>6 107</u> <u>7 102</u> <u>8 103</u>	2774	<u>1 -</u> <u>2 -</u> <u>3 112</u> <u>4 -</u> <u>5 -</u> <u>6 54</u> <u>7 -</u> <u>8 -</u>	2777	<u>1 113</u> <u>2 101</u> <u>3 112</u> <u>4 104</u> <u>5 107</u> <u>6 106</u> <u>7 105</u> <u>8 107</u>	3282	<u>1 124</u> <u>2 105</u> <u>3 128</u> <u>4 115</u> <u>5 126</u> <u>6 112</u> <u>7 115</u> <u>8 115</u>	3284	<u>1 122</u> <u>2 106</u> <u>3 -</u> <u>4 124</u> <u>5 112</u> <u>6 113</u> <u>7 118</u> <u>8 50</u>	3385	<u>1 120</u> <u>2 107</u> <u>3 118</u> <u>4 121</u> <u>5 115</u> <u>6 116</u> <u>7 118</u> <u>8 115</u>
3685	<u>1 105</u> <u>2 -</u> <u>3 104</u> <u>4 117</u> <u>5 117</u> <u>6 101</u> <u>7 107</u> <u>8 107</u>	3784	<u>1 120</u> <u>2 104</u> <u>3 116</u> <u>4 119</u> <u>5 103</u> <u>6 116</u> <u>7 114</u> <u>8 112</u>	3887	<u>1 104</u> <u>2 98</u> <u>3 106</u> <u>4 102</u> <u>5 106</u> <u>6 101</u> <u>7 102</u> <u>8 102</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 3-2-6 Inlet Temperature _____ Pile Power Level 7.0 Time 10:00

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panelit Dial</u>	<u>Panelit Base</u>	<u>Front Header Pressure</u>	
2772	<u>105.0</u>	<u>6.5</u>	<u>199</u>	<u>51.2</u>	
2774	<u>102.2</u>	<u>6.9</u>	<u>202</u>	<u>50.5</u>	
2777	<u>105.0</u>	<u>6.4</u>	<u>215</u>	<u>50.5</u>	
3282	<u>105.0</u>	<u>6.1</u>	<u>215</u>	<u>51.6</u>	
3284	<u>105.0</u>	<u>6.7</u>	<u>205</u>	<u>50.6</u>	
3385	<u>105.0</u>	<u>6.6</u>	<u>204</u>	<u>50.9</u>	
3685	<u>105.0</u>	<u>5.4</u>	<u>204</u>	<u>50.4</u>	
3784	<u>105.0</u>	<u>6.3</u>	<u>211</u>	<u>51.1</u>	
3887	<u>105.0</u>	<u>5.5</u>	<u>211</u>	<u>55.0</u>	

Downstream Probe Thermocouple Readings

2272	1 <u>117</u>	2774	1 <u>-</u>	2777	1 <u>115</u>	3282	1 <u>127</u>	3284	1 <u>124</u>	3385	1 <u>123</u>
	2 <u>96</u>		2 <u>-</u>		2 <u>103</u>		2 <u>105</u>		2 <u>108</u>		2 <u>109</u>
	3 <u>112</u>		3 <u>116</u>		3 <u>117</u>		3 <u>132</u>		3 <u>-</u>		3 <u>121</u>
	4 <u>118</u>		4 <u>59</u>		4 <u>112</u>		4 <u>118</u>		4 <u>108</u>		4 <u>102</u>
	5 <u>107</u>		5 <u>-</u>		5 <u>111</u>		5 <u>126</u>		5 <u>112</u>		5 <u>118</u>
	6 <u>112</u>		6 <u>54</u>		6 <u>112</u>		6 <u>114</u>		6 <u>101</u>		6 <u>120</u>
	7 <u>107</u>		7 <u>-</u>		7 <u>112</u>		7 <u>119</u>		7 <u>102</u>		7 <u>121</u>
	8 <u>107</u>		8 <u>-</u>		8 <u>110</u>		8 <u>118</u>		8 <u>101</u>		8 <u>118</u>
3685	1 <u>104</u>	3784	1 <u>121</u>	3887	1 <u>-</u>						
	2 <u>108</u>		2 <u>106</u>		2 <u>101</u>						
	3 <u>-</u>		3 <u>117</u>		3 <u>108</u>						
	4 <u>-</u>		4 <u>121</u>		4 <u>104</u>						
	5 <u>44</u>		5 <u>110</u>		5 <u>105</u>						
	6 <u>124</u>		6 <u>119</u>		6 <u>102</u>						
	7 <u>106</u>		7 <u>105</u>		7 <u>104</u>						
	8 <u>109</u>		8 <u>103</u>		8 <u>103</u>						

NOTE: Data to be taken daily during operation.

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DECLASSIFIED

DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 9-24-61 Inlet Temperature 20.2 Pile Power Level 15.50 Time 1040

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panel lit Dial</u>	<u>Panel lit Base</u>	<u>Front Header Pressure</u>	
2772	106.0	67		5.62	
2774	107.0	70		5.62	
2777	104.5	66		5.62	
3282	102.7	59		5.62	
3284	108.2	61		5.62	
3385	106.2	65		5.62	
3685	107.5	67		5.62	
3784	104.5	54		5.62	
3887	101.0	57		5.62	

Downstream Probe Thermocouple Readings

2272	1 10.1 2 10.1 3 10.1 4 10.1 5 10.1 6 10.1 7 10.1 8 10.1	2774	1 10.1 2 10.1 3 10.1 4 10.1 5 10.1 6 10.1 7 10.1 8 10.1	2777	1 10.1 2 10.1 3 10.1 4 10.1 5 10.1 6 10.1 7 10.1 8 10.1	3282	1 10.1 2 10.1 3 10.1 4 10.1 5 10.1 6 10.1 7 10.1 8 10.1	3284	1 10.1 2 10.1 3 10.1 4 10.1 5 10.1 6 10.1 7 10.1 8 10.1	3385	1 10.1 2 10.1 3 10.1 4 10.1 5 10.1 6 10.1 7 10.1 8 10.1
3685	1 10.1 2 10.1 3 10.1 4 10.1 5 10.1 6 10.1 7 10.1 8 10.1	3784	1 10.1 2 10.1 3 10.1 4 10.1 5 10.1 6 10.1 7 10.1 8 10.1	3887	1 10.1 2 10.1 3 10.1 4 10.1 5 10.1 6 10.1 7 10.1 8 10.1						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 12-1-68 Inlet Temperature 250 Pile Power Level 1/10 Time 12:30

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	23.5	1.5	1.0	5.0	
2774	23.5	1.5	1.0	5.0	
2777	23.5	1.5	1.0	5.0	
3282	23.5	1.5	1.0	5.0	
3284	23.5	1.5	1.0	5.0	
3385	23.5	1.5	1.0	5.0	
3685	23.5	1.5	1.0	5.0	
3784	23.5	1.5	1.0	5.0	
3887	23.5	1.5	1.0	5.0	

Downstream Probe Thermocouple Readings

2272	1 2 3 4 5 6 7 8	2774	1 2 3 4 5 6 7 8	2777	1 2 3 4 5 6 7 8	3282	1 2 3 4 5 6 7 8	3284	1 2 3 4 5 6 7 8	3385	1 2 3 4 5 6 7 8
3685	1 2 3 4 5 6 7 8	3784	1 2 3 4 5 6 7 8	3887	1 2 3 4 5 6 7 8						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 9-29-61 Inlet Temperature 100 Pile Power Level 1690 Time 11:45

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	166.5	6.5		5.3	
2774	164.2	6.7			
2777	166.7	6.5			
3282	169.5	6.6			
3284	166.0	6.6			
3385	162.0	5.7		5.9	
3685	167.3	6.2		5.5	
3784	166.8	6.3			
3887	162.5	6.1		5.3	

Downstream Probe Thermocouple Readings

2272	1 1 2 2 7 2 3 1 1 3 4 1 2 3 5 1 1 1 6 1 1 7 7 1 2 5 8 1 1 6	2774	1 - 2 - 3 - 4 6 2 5 - 6 5 6 7 - 8 -	2777	1 1 1 6 2 1 6 7 3 1 1 6 4 1 1 2 5 - 6 - 7 - 8 -	3282	1 1 2 5 2 - 3 - 4 - 5 - 6 1 1 5 7 - 8 -	3284	1 - 2 - 3 - 4 - 5 - 6 1 1 6 7 1 1 3 8 -	3385	1 1 1 6 2 1 1 6 3 1 2 6 4 1 1 9 5 1 2 7 6 1 2 7 7 1 2 9 8 1 2 6
3685	1 1 1 6 2 - 3 1 1 7 4 - 5 - 6 5 2 7 1 1 9 8 -	3784	1 1 2 3 2 - 3 1 1 7 4 - 5 1 1 7 6 1 2 6 7 1 1 6 8 -	3887	1 - 2 - 3 1 1 2 4 1 6 3 5 1 1 2 6 1 1 7 7 1 6 2 8 -						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 10-5-61 Inlet Temperature 19.7 Pile Power Level 1565 Time 0815

Tube	Outlet Temperature	Panellit Dial	Panellit Base	Front Header Pressure
2772	<u>108.8</u>	<u>64</u>	<u>198</u>	<u>560</u>
2774	<u>107.3</u>	<u>55</u>	<u>223</u>	<u>560</u>
2777	<u>107.8</u>	<u>64</u>	<u>196</u>	<u>560</u>
3282	<u>107.3</u>	<u>58</u>	<u>174</u>	<u>565</u>
3284	<u>108.4</u>	<u>63</u>	<u>228</u>	<u>565</u>
3385	<u>108.3</u>	<u>61</u>	<u>182</u>	<u>567</u>
3685	<u>102.8</u>	<u>54</u>	<u>212</u>	<u>562</u>
3784	<u>107.0</u>	<u>62</u>	<u>226</u>	<u>562</u>
3887	<u>97.3</u>	<u>49</u>	<u>215</u>	<u>550</u>

Downstream Probe Thermocouple Readings

2772	1 <u>114.0</u>	2774	1 <u>—</u>	2777	1 <u>113.0</u>	3282	1 <u>118.0</u>	3284	1 <u>114.0</u>	3385	1 <u>115.0</u>
2772	2 <u>98.0</u>	2774	2 <u>—</u>	2777	2 <u>109.0</u>	3282	2 <u>98.6</u>	3284	2 <u>110.0</u>	3385	2 <u>111.5</u>
	3 <u>116.0</u>		3 <u>110.0</u>		3 <u>112.5</u>		3 <u>122.0</u>		3 <u>—</u>		3 <u>110.0</u>
	4 <u>119.0</u>		4 <u>57.0</u>		4 <u>109.5</u>		4 <u>105.5</u>		4 <u>117.0</u>		4 <u>114.0</u>
	5 <u>107.8</u>		5 <u>—</u>		5 <u>107.0</u>		5 <u>114.0</u>		5 <u>106.0</u>		5 <u>108.0</u>
	6 <u>104.4</u>		6 <u>51</u>		6 <u>104.0</u>		6 <u>106.5</u>		6 <u>109.0</u>		6 <u>110.0</u>
	7 <u>108.0</u>		7 <u>—</u>		7 <u>108.0</u>		7 <u>108.5</u>		7 <u>112.0</u>		7 <u>111.0</u>
	8 <u>50.0</u>		8 <u>—</u>		8 <u>107.0</u>		8 <u>108.5</u>		8 <u>50.0</u>		8 <u>108.0</u>
3685	1 <u>103.0</u>	3784	1 <u>116.5</u>	3887	1 <u>102.0</u>						
	2 <u>98.0</u>		2 <u>111.0</u>		2 <u>95.0</u>						
	3 <u>93.0</u>		3 <u>111.0</u>		3 <u>104.0</u>						
	4 <u>114.0</u>		4 <u>116.0</u>		4 <u>106.0</u>						
	5 <u>92.0</u>		5 <u>105.0</u>		5 <u>104.0</u>						
	6 <u>116.0</u>		6 <u>113.0</u>		6 <u>98.0</u>						
	7 <u>102.0</u>		7 <u>111.0</u>		7 <u>100.0</u>						
	8 <u>102.0</u>		8 <u>109.0</u>		8 <u>100.0</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 10-6-61 Inlet Temperature 19.6 Pile Power Level 15.10 Time 5:00

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	106	14	159	560	
2774	107	15	237		
2777	108	16	218		
3282	109	17	215	560	
3284	110	18	228		
3385	111	19	260		
3685	112	20	229		
3784	113	21	247		
3887	114	22	219		

Downstream Probe Thermocouple Readings

2272	1 105 2 106 3 107 4 108 5 109 6 110 7 111 8 112	2774	1 106 2 107 3 108 4 109 5 110 6 111 7 112 8 113	2777	1 107 2 108 3 109 4 110 5 111 6 112 7 113 8 114	3282	1 108 2 109 3 110 4 111 5 112 6 113 7 114 8 115	3284	1 109 2 110 3 111 4 112 5 113 6 114 7 115 8 116	3385	1 110 2 111 3 112 4 113 5 114 6 115 7 116 8 117
3685	1 111 2 112 3 113 4 114 5 115 6 116 7 117 8 118	3784	1 112 2 113 3 114 4 115 5 116 6 117 7 118 8 119	3887	1 113 2 114 3 115 4 116 5 117 6 118 7 119 8 120						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 10-7-61 Inlet Temperature 192 Pile Power Level 1600 Time 0900

Tube	Outlet Temperature	Panellit Dial	Panellit Base	Front Header Pressure
2772	103	66	149	TE4 560
2774	107	56	237	101 560
2777	106	55	217	111 560
3282	109	59	215	111 563
3284	110	67	222	112 563
3385	109	62	266	119 561
3685	104	50	224	112 562
3784	110	63	247	562
3887	99	50	219	560

Downstream Probe Thermocouple Readings

2272	1 124 2 124 3 124 4 124 5 124 6 124 7 124 8 124	2774	1 — 2 — 3 — 4 46 5 — 6 46 7 — 8 —	2777	1 119 2 119 3 119 4 119 5 112 6 108 7 113 8 111	3282	1 124 2 124 3 124 4 124 5 124 6 124 7 124 8 124	3284	1 124 2 124 3 124 4 124 5 124 6 124 7 124 8 124	3385	1 124 2 124 3 124 4 124 5 124 6 124 7 124 8 124
3685	1 124 2 124 3 124 4 124 5 124 6 124 7 124 8 124	3784	1 124 2 124 3 124 4 124 5 124 6 124 7 124 8 124	3887	1 124 2 124 3 124 4 124 5 124 6 124 7 124 8 124						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-PP
D REACTOR

Date 11-5-61 Inlet Temperature 181 Pile Power Level 16.11 Time 16:00

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panelit Dial</u>	<u>Panelit Base</u>	<u>Front Header Pressure</u>	
2772	<u>202.5</u>	<u>55</u>	<u>1981</u>	<u>565</u>	
2774	<u>192.5</u>	<u>50</u>	<u>2087</u>		
2777	<u>194.0</u>	<u>45</u>	<u>205</u>		
3282	<u>192.5</u>	<u>47</u>	<u>205</u>		
3284	<u>190.0</u>	<u>45</u>	<u>205</u>		
3385	<u>187.5</u>	<u>45</u>	<u>205</u>		
3685	<u>183</u>	<u>45</u>	<u>205</u>		
3784	<u>185</u>	<u>45</u>	<u>205</u>		
3887	<u>185</u>	<u>45</u>	<u>205</u>		

Downstream Probe Thermocouple Readings

2272	1 11.7 2 11.7 3 11.7 4 11.7 5 11.7 6 11.7 7 11.7 8 11.7	2774	1 11.7 2 11.7 3 11.7 4 11.7 5 11.7 6 11.7 7 11.7 8 11.7	2777	1 11.7 2 11.7 3 11.7 4 11.7 5 11.7 6 11.7 7 11.7 8 11.7	3282	1 11.7 2 11.7 3 11.7 4 11.7 5 11.7 6 11.7 7 11.7 8 11.7	3284	1 11.7 2 11.7 3 11.7 4 11.7 5 11.7 6 11.7 7 11.7 8 11.7	3385	1 11.7 2 11.7 3 11.7 4 11.7 5 11.7 6 11.7 7 11.7 8 11.7
3685	1 11.7 2 11.7 3 11.7 4 11.7 5 11.7 6 11.7 7 11.7 8 11.7	3784	1 11.7 2 11.7 3 11.7 4 11.7 5 11.7 6 11.7 7 11.7 8 11.7	3887	1 11.7 2 11.7 3 11.7 4 11.7 5 11.7 6 11.7 7 11.7 8 11.7						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-PP
D REACTOR

Date 10-9-61 Inlet Temperature 19.2 Pile Power Level 1610 Time 0830

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panel lit Dial</u>	<u>Panel lit Base</u>	<u>Front Header Pressure</u>	
2772	<u>103.5</u>	<u>65</u>	<u>199</u>	<u>560</u>	
2774	<u>106.5</u>	<u>57</u>	<u>237</u>	<u>"</u>	
2777	<u>104.5</u>	<u>63</u>	<u>218</u>	<u>"</u>	
3282	<u>107.5</u>	<u>58</u>	<u>215</u>	<u>563</u>	
3284	<u>109.5</u>	<u>65</u>	<u>228</u>	<u>"</u>	
3385	<u>109.5</u>	<u>64</u>	<u>266</u>	<u>567</u>	
3685	<u>103.5</u>	<u>55</u>	<u>224</u>	<u>562</u>	
3784	<u>112.0</u>	<u>63</u>	<u>247</u>	<u>"</u>	
3887	<u>98.6</u>	<u>50</u>	<u>219</u>	<u>550</u>	

Downstream Probe Thermocouple Readings

2772	1 <u>120</u>	2774	1 <u>—</u>	2777	1 <u>114</u>	3282	1 <u>—</u>	3284	1 <u>166</u>	3385	1 <u>105</u>
	2 <u>94</u>		2 <u>—</u>		2 <u>100</u>		2 <u>20</u>		2 <u>166</u>		2 <u>—</u>
	3 <u>110</u>		3 <u>109</u>		3 <u>113</u>		3 <u>—</u>		3 <u>—</u>		3 <u>—</u>
	4 <u>120</u>		4 <u>48</u>		4 <u>110</u>		4 <u>22</u>		4 <u>114</u>		4 <u>104</u>
	5 <u>104</u>		5 <u>—</u>		5 <u>100</u>		5 <u>—</u>		5 <u>166</u>		5 <u>102</u>
	6 <u>112</u>		6 <u>46</u>		6 <u>105</u>		6 <u>166</u>		6 <u>112</u>		6 <u>103</u>
	7 <u>100</u>		7 <u>—</u>		7 <u>109</u>		7 <u>169</u>		7 <u>163</u>		7 <u>102</u>
	8 <u>105</u>		8 <u>—</u>		8 <u>107</u>		8 <u>169</u>		8 <u>65</u>		8 <u>96</u>
3685	1 <u>100</u>	3784	1 <u>120</u>	3887	1 <u>115</u>						
	2 <u>96</u>		2 <u>106</u>		2 <u>90</u>						
	3 <u>98</u>		3 <u>110</u>		3 <u>101</u>						
	4 <u>106</u>		4 <u>122</u>		4 <u>102</u>						
	5 <u>95</u>		5 <u>108</u>		5 <u>105</u>						
	6 <u>120</u>		6 <u>120</u>		6 <u>102</u>						
	7 <u>100</u>		7 <u>116</u>		7 <u>105</u>						
	8 <u>106</u>		8 <u>114</u>		8 <u>102</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 6-11-61 Inlet Temperature 19.0 Pile Power Level 16.10 Time 10:00

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panelit Dial</u>	<u>Panelit Base</u>	<u>Front Header Pressure</u>	
2772	155.0	14	195		
2774	161.2		237		
2777	164.0		214		
3282	155.2		215	56.4	
3284	155.2	66	223	50	
3385	161.5	12	234	"	
3685	23.3	55	220	50	
3784	116.5	10	247	"	
3887	17.6	55	225	50	

Downstream Probe Thermocouple Readings

2272	1 11.5 2 11.5 3 11.2 4 11.2 5 11.0 6 11.0 7 11.0 8 11.0	2774	1 — 2 — 3 11.6 4 11.1 5 — 6 2.0 7 — 8 —	2777	1 11.6 2 11.0 3 11.0 4 11.0 5 11.0 6 11.0 7 11.0 8 11.0	3282	1 11.4 2 11.0 3 11.0 4 11.0 5 11.0 6 11.0 7 11.0 8 11.0	3284	1 11.0 2 11.0 3 11.0 4 11.0 5 11.0 6 11.0 7 11.0 8 11.0	3385	1 11.0 2 11.0 3 11.0 4 11.0 5 11.0 6 11.0 7 11.0 8 11.0
3685	1 11.0 2 11.0 3 11.0 4 11.0 5 11.0 6 11.0 7 11.0 8 11.0	3784	1 11.0 2 11.0 3 11.0 4 11.0 5 11.0 6 11.0 7 11.0 8 11.0	3887	1 11.0 2 11.0 3 11.0 4 11.0 5 11.0 6 11.0 7 11.0 8 11.0						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 7-11-61 Inlet Temperature 19.0 Pile Power Level 16.92 Time 1545

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panel lit Dial</u>	<u>Panel lit Base</u>	<u>Front Header Pressure</u>	
2772	102.5	66	198	562	
2774	106.0	57	237	"	
2777	108.5	66	219	"	
3282	106.0	66	219	565	
3284	108.6	67	223	"	
3385	103.0	70	254	563	
3685	104.0	50	287	563	
3784	110.0	61	257	563	
3887	107.5	57	235	550	

Downstream Probe Thermocouple Readings

2272	1 10.1 2 10.1 3 11.6 4 12.1 5 12.5 6 12.5 7 12.5 8 12.5	2774	1 10.1 2 10.1 3 10.5 4 10.5 5 10.5 6 10.5 7 10.5 8 10.5	2777	1 10.1 2 9.5 3 10.1 4 10.1 5 10.1 6 10.1 7 10.1 8 10.1	3282	1 11.5 2 9.8 3 10.5 4 10.5 5 10.5 6 10.5 7 10.5 8 10.5	3284	1 10.1 2 10.1 3 10.1 4 10.1 5 10.1 6 10.1 7 10.1 8 10.1	3385	1 10.5 2 10.5 3 10.2 4 10.2 5 10.2 6 10.2 7 10.2 8 10.2
3685	1 10.5 2 9.4 3 10.3 4 9.8 5 9.8 6 10.5 7 10.5 8 10.5	3784	1 11.6 2 10.6 3 10.6 4 10.6 5 10.6 6 10.6 7 10.6 8 10.6	3887	1 10.1 2 9.4 3 9.4 4 9.4 5 9.4 6 9.4 7 9.4 8 9.4						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-PP
D REACTOR

Date 10/2/61 Inlet Temperature 100 Pile Power Level 1675 Time 0515

Tube	Outlet Temperature	Panel Unit Dial	Panel Unit Base	Front Header Pressure	
2772	100	67	198	501	
2774	100	57	237		
2777	100	67	212		
3282	100	63	215	565	
3284	100	62	222	11	
3385	100	10	196	568	
3685	100	53	224	563	
3784	100	65	247	565	
3887	100	22	232	567	

Downstream Probe Thermocouple Readings

2272	<div>125 1 <u>44</u> 2 <u>100.45</u> 3 <u>100.12</u> 4 <u>100.124</u> 5 <u>100.113</u> 6 <u>100.116</u> 7 <u>100.104</u> 8 <u>100</u></div>	2774	<div>1 <u>100</u> 2 <u>100</u> 3 <u>100.110</u> 4 <u>100.44</u> 5 <u>100</u> 6 <u>100.40</u> 7 <u>100</u> 8 <u>100</u></div>	2777	<div>1 <u>100</u> 2 <u>100</u> 3 <u>100</u> 4 <u>100</u> 5 <u>100</u> 6 <u>100</u> 7 <u>100</u> 8 <u>100.5</u></div>	3282	<div>1 <u>100</u> 2 <u>100</u> 3 <u>100</u> 4 <u>100</u> 5 <u>100</u> 6 <u>100</u> 7 <u>100</u> 8 <u>100</u></div>	3284	<div>1 <u>100</u> 2 <u>100</u> 3 <u>100</u> 4 <u>100</u> 5 <u>100</u> 6 <u>100</u> 7 <u>100</u> 8 <u>100</u></div>	3385	<div>1 <u>100</u> 2 <u>100</u> 3 <u>100</u> 4 <u>100</u> 5 <u>100</u> 6 <u>100</u> 7 <u>100</u> 8 <u>100</u></div>
3685	<div>1 <u>100</u> 2 <u>100</u> 3 <u>100</u> 4 <u>100</u> 5 <u>100</u> 6 <u>100</u> 7 <u>100</u> 8 <u>100</u></div>	3784	<div>1 <u>100.5</u> 2 <u>100</u> 3 <u>100</u> 4 <u>100</u> 5 <u>100</u> 6 <u>100</u> 7 <u>100</u> 8 <u>100</u></div>	3887	<div>1 <u>100.5</u> 2 <u>100</u> 3 <u>100</u> 4 <u>100</u> 5 <u>100</u> 6 <u>100</u> 7 <u>100</u> 8 <u>100</u></div>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 10-16-61 Inlet Temperature 19.2 Pile Power Level 1675 Time 0815

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	<u>108.5</u>	<u>5.9</u>	<u>199</u>	<u>5.2</u>	
2774	<u>111.6</u>	<u>5.8</u>	<u>237</u>	<u>"</u>	
2777	<u>109.1</u>	<u>6.9</u>	<u>218</u>	<u>"</u>	
3282	<u>109.1</u>	<u>"</u>	<u>215</u>	<u>56.5</u>	
3284	<u>109.1</u>	<u>6.8</u>	<u>228</u>	<u>"</u>	
3385	<u>107.5</u>	<u>6.5</u>	<u>205</u>	<u>5.1</u>	
3685	<u>100.5</u>	<u>5.7</u>	<u>220</u>	<u>5.3</u>	
3784	<u>100.5</u>	<u>6.5</u>	<u>225</u>	<u>"</u>	
3887	<u>228</u>	<u>5.2</u>	<u>255</u>	<u>5.6</u>	

Downstream Probe Thermocouple Readings

2272	1 <u>13.5</u> 2 <u>7.8</u> 3 <u>13.6</u> 4 <u>12.0</u> 5 <u>11.5</u> 6 <u>12.2</u> 7 <u>10.8</u> 8 <u>1.1</u>	2774	1 <u>—</u> 2 <u>—</u> 3 <u>11.7</u> 4 <u>4.2</u> 5 <u>—</u> 6 <u>4.6</u> 7 <u>—</u> 8 <u>—</u>	2777	1 <u>12.1</u> 2 <u>10.8</u> 3 <u>12.6</u> 4 <u>11.6</u> 5 <u>11.7</u> 6 <u>11.5</u> 7 <u>11.4</u> 8 <u>12.2</u>	3282	1 <u>12.1</u> 2 <u>10.5</u> 3 <u>12.8</u> 4 <u>11.0</u> 5 <u>12.6</u> 6 <u>10.6</u> 7 <u>11.6</u> 8 <u>11.0</u>	3284	1 <u>11.1</u> 2 <u>10.2</u> 3 <u>—</u> 4 <u>12.6</u> 5 <u>11.2</u> 6 <u>—</u> 7 <u>11.4</u> 8 <u>4.8</u>	3385	1 <u>11.1</u> 2 <u>11.1</u> 3 <u>11.3</u> 4 <u>11.4</u> 5 <u>11.1</u> 6 <u>11.4</u> 7 <u>11.4</u> 8 <u>11.0</u>
3685	1 <u>10.9</u> 2 <u>10.0</u> 3 <u>10.4</u> 4 <u>10.2</u> 5 <u>7.8</u> 6 <u>10.8</u> 7 <u>10.0</u> 8 <u>10.6</u>	3784	1 <u>11.8</u> 2 <u>10.8</u> 3 <u>11.3</u> 4 <u>12.0</u> 5 <u>10.5</u> 6 <u>12.1</u> 7 <u>11.2</u> 8 <u>—</u>	3887	1 <u>10.4</u> 2 <u>5.6</u> 3 <u>10.6</u> 4 <u>10.2</u> 5 <u>10.7</u> 6 <u>10.6</u> 7 <u>10.3</u> 8 <u>10.2</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 10-17-61 Inlet Temperature 180 Pile Power Level 1716 Time 0830

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	<u>119.6</u>	<u>69</u>	<u>199</u>	<u>559</u>	
2774	<u>112.8</u>	<u>59</u>	<u>237</u>	<u>559</u>	
2777	<u>111.2</u>	<u>68</u>	<u>218</u>	<u>559</u>	
3282	<u>111.3</u>	<u>62</u>	<u>215</u>	<u>561</u>	
3284	<u>112.2</u>	<u>69</u>	<u>228</u>	<u>561</u>	
3385	<u>112.3</u>	<u>63</u>	<u>253</u>	<u>562</u>	
3685	<u>117.7</u>	<u>65</u>	<u>234</u>	<u>559</u>	
3784	<u>113.9</u>	<u>65</u>	<u>247</u>	<u>556</u>	
3887	<u>101.3</u>	<u>52</u>	<u>255</u>	<u>534</u>	

Downstream Probe Thermocouple Readings

2272	<u>1 119</u> <u>2 97</u> <u>3 125.5</u> <u>4 128</u> <u>5 119.5</u> <u>6 119.5</u> <u>7 107</u> <u>8 109</u>	2774	<u>1 —</u> <u>2 —</u> <u>3 112.5</u> <u>4 42</u> <u>5 —</u> <u>6 39</u> <u>7 —</u> <u>8 —</u>	2777	<u>1 120</u> <u>2 104</u> <u>3 119</u> <u>4 115.7</u> <u>5 112.2</u> <u>6 109</u> <u>7 114</u> <u>8 112</u>	3282	<u>1 121</u> <u>2 102</u> <u>3 120.5</u> <u>4 116</u> <u>5 121</u> <u>6 106.5</u> <u>7 109.5</u> <u>8 110.0</u>	3284	<u>1 116.2</u> <u>2 102.0</u> <u>3 —</u> <u>4 120.5</u> <u>5 106.0</u> <u>6 114.0</u> <u>7 115.0</u> <u>8 47.5</u>	3385	<u>1 118</u> <u>2 101.5</u> <u>3 113.5</u> <u>4 118.0</u> <u>5 111</u> <u>6 114.2</u> <u>7 114.5</u> <u>8 111.5</u>
3685	<u>1 117.9</u> <u>2 100</u> <u>3 105</u> <u>4 122.5</u> <u>5 95</u> <u>6 126</u> <u>7 105.5</u> <u>8 107.0</u>	3784	<u>1 119</u> <u>2 108</u> <u>3 112.5</u> <u>4 120.0</u> <u>5 105.7</u> <u>6 101.5</u> <u>7 117</u> <u>8 114</u>	3887	<u>1 105</u> <u>2 46.7</u> <u>3 107.0</u> <u>4 102.5</u> <u>5 103.6</u> <u>6 116.0</u> <u>7 103.0</u> <u>8 102.0</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 10-18-61 Inlet Temperature 17.8 Pile Power Level 1745 Time 0830

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	<u>11.8</u>	<u>59</u>	<u>199</u>	<u>559</u>	
2774	<u>11.2</u>	<u>59</u>	<u>237</u>	<u>557</u>	
2777	<u>11.1</u>	<u>60</u>	<u>215</u>	<u>559</u>	
3282	<u>110.9</u>	<u>63</u>	<u>215</u>	<u>661</u>	
3284	<u>113.0</u>	<u>64</u>	<u>228</u>	<u>561</u>	
3385	<u>115.4</u>	<u>65</u>	<u>230</u>	<u>572</u>	
3685	<u>6.8</u>	<u>58</u>	<u>227</u>	<u>559</u>	
3784	<u>11.4</u>	<u>65</u>	<u>247</u>	<u>559</u>	
3887	<u>10.4</u>	<u>52</u>	<u>250</u>	<u>559</u>	

Downstream Probe Thermocouple Readings

2272	<u>1 12.3</u> <u>2 12.4</u> <u>3 12.4</u> <u>4 12</u> <u>5 11.9</u> <u>6 ✓</u> <u>7 12.7</u> <u>8 11</u>	2774	<u>1 ✓</u> <u>2 ✓</u> <u>3 1.5</u> <u>4 2.3</u> <u>5 ✓</u> <u>6 4.6</u> <u>7 ✓</u> <u>8 ✓</u>	2777	<u>1 12.3</u> <u>2 12.7</u> <u>3 2.7</u> <u>4 1.5</u> <u>5 1.5</u> <u>6 1.7</u> <u>7 ✓</u> <u>8 12.4</u>	3282	<u>1 12.3</u> <u>2 12.4</u> <u>3 13.1</u> <u>4 1.2</u> <u>5 12.2</u> <u>6 1.5</u> <u>7 1.1</u> <u>8 1.2</u>	3284	<u>1 1.5</u> <u>2 10.1</u> <u>3 ✓</u> <u>4 12.2</u> <u>5 1.1</u> <u>6 1.6</u> <u>7 ✓</u> <u>8 1.7</u>	3385	<u>1 12.0</u> <u>2 10.4</u> <u>3 11.7</u> <u>4 12.0</u> <u>5 11.2</u> <u>6 11.7</u> <u>7 11.6</u> <u>8 11.3</u>
3685	<u>1 11.9</u> <u>2 ✓</u> <u>3 1.2</u> <u>4 2</u> <u>5 1.0</u> <u>6 1.1</u> <u>7 11.6</u> <u>8 1.0</u>	3784	<u>1 12.0</u> <u>2 1.1</u> <u>3 1.2</u> <u>4 12.7</u> <u>5 1.6</u> <u>6 7.4</u> <u>7 1.9</u> <u>8 1.5</u>	3887	<u>1 12.6</u> <u>2 9.5</u> <u>3 1.1</u> <u>4 10.4</u> <u>5 1.1</u> <u>6 1.1</u> <u>7 1.5</u> <u>8 1.5</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 11-11-68 Inlet Temperature 17.0 Pile Power Level 1760 Time 0930

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	112.5	71	199	559	
2774	112.5	62	187	559	
2777	112.5	60	185	559	
3282	114.5	69	215	561	
3284	115.5	70	218	561	
3385	114.5	68	212	562	
3685	112.5	60	204	559	
3784	112.5	67	217	559	
3887	112.5	59	200	559	

Downstream Probe Thermocouple Readings

2272	1 <u>108</u> 2 <u>108</u> 3 <u>108</u> 4 <u>108</u> 5 <u>108</u> 6 <u>108</u> 7 <u>112</u> 8 <u>112</u>	2774	1 <u>108</u> 2 <u>108</u> 3 <u>108</u> 4 <u>108</u> 5 <u>108</u> 6 <u>108</u> 7 <u>108</u> 8 <u>108</u>	2777	1 <u>124</u> 2 <u>115</u> 3 <u>124</u> 4 <u>120</u> 5 <u>117</u> 6 <u>113</u> 7 <u>114</u> 8 <u>116</u>	3282	1 <u>124</u> 2 <u>114</u> 3 <u>124</u> 4 <u>116</u> 5 <u>126</u> 6 <u>116</u> 7 <u>114</u> 8 <u>115</u>	3284	1 <u>122</u> 2 <u>122</u> 3 <u>122</u> 4 <u>122</u> 5 <u>122</u> 6 <u>122</u> 7 <u>122</u> 8 <u>122</u>	3385	1 <u>122</u> 2 <u>122</u> 3 <u>118</u> 4 <u>122</u> 5 <u>118</u> 6 <u>120</u> 7 <u>120</u> 8 <u>116</u>
3685	1 <u>112</u> 2 <u>112</u> 3 <u>112</u> 4 <u>112</u> 5 <u>112</u> 6 <u>112</u> 7 <u>112</u> 8 <u>112</u>	3784	1 <u>128</u> 2 <u>112</u> 3 <u>112</u> 4 <u>112</u> 5 <u>112</u> 6 <u>112</u> 7 <u>112</u> 8 <u>112</u>	3887	1 <u>105</u> 2 <u>105</u> 3 <u>110</u> 4 <u>105</u> 5 <u>112</u> 6 <u>112</u> 7 <u>112</u> 8 <u>112</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 11 - 20 - 61 Inlet Temperature 17.5 Pile Power Level 176.5 Time 10:05

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	<u>114</u>	<u>6.0</u>	<u>199</u>	<u>559</u>	
2774	<u>117</u>	<u>6.2</u>	<u>237</u>	<u>559</u>	
2777	<u>112</u>	<u>7.1</u>	<u>215</u>	<u>559</u>	
3282	<u>112.5</u>	<u>6.4</u>	<u>210</u>	<u>561</u>	
3284	<u>112.3</u>	<u>7.0</u>	<u>228</u>	<u>561</u>	
3385	<u>112.6</u>	<u>6.5</u>	<u>257</u>	<u>561</u>	
3685	<u>108.5</u>	<u>6.7</u>	<u>224</u>	<u>559</u>	
3784	<u>114.5</u>	<u>6.8</u>	<u>247</u>	<u>559</u>	
3887	<u>111.4</u>	<u>6.9</u>	<u>222</u>	<u>559</u>	

Downstream Probe Thermocouple Readings

2272	1 <u>11.5</u> 2 <u>11.5</u> 3 <u>11.4</u> 4 <u>11.5</u> 5 <u>11.5</u> 6 <u>11.9</u> 7 <u>11.2</u> 8 <u>11.2</u>	2774	1 <u>--</u> 2 <u>11.6</u> 3 <u>11.3</u> 4 <u>7.1</u> 5 <u>--</u> 6 <u>6.7</u> 7 <u>12.1</u> 8 <u>--</u>	2777	1 <u>11.9</u> 2 <u>11.8</u> 3 <u>11.8</u> 4 <u>11.5</u> 5 <u>11.4</u> 6 <u>11.2</u> 7 <u>11.7</u> 8 <u>11.5</u>	3282	1 <u>11.7</u> 2 <u>11.8</u> 3 <u>11.5</u> 4 <u>11.5</u> 5 <u>11.5</u> 6 <u>11.0</u> 7 <u>11.6</u> 8 <u>7.4</u>	3284	1 <u>11.2</u> 2 <u>11.5</u> 3 <u>11.3</u> 4 <u>11.2</u> 5 <u>11.5</u> 6 <u>11.5</u> 7 <u>11.2</u> 8 <u>6.7</u>	3385	1 <u>11.4</u> 2 <u>11.6</u> 3 <u>11.2</u> 4 <u>11.4</u> 5 <u>11.0</u> 6 <u>12.1</u> 7 <u>11.2</u> 8 <u>11.3</u>
3685	1 <u>10.4</u> 2 <u>--</u> 3 <u>10.8</u> 4 <u>11.2</u> 5 <u>10.4</u> 6 <u>11.4</u> 7 <u>10.8</u> 8 <u>11.1</u>	3784	1 <u>11.4</u> 2 <u>11.1</u> 3 <u>12.1</u> 4 <u>12.5</u> 5 <u>2.6</u> 6 <u>11.2</u> 7 <u>12.6</u> 8 <u>17.2</u>	3887	1 <u>10.6</u> 2 <u>7.5</u> 3 <u>11.9</u> 4 <u>11.7</u> 5 <u>11.5</u> 6 <u>11.6</u> 7 <u>11.2</u> 8 <u>11.2</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 10-21-61 Inlet Temperature 172 Pile Power Level 1760 Time 0845

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panelit Dial</u>	<u>Panelit Base</u>	<u>Front Header Pressure</u>	
2772	<u>106.5</u>	<u>63</u>	<u>209</u>	<u>558</u>	
2774	<u>111.5</u>	<u>63</u>	<u>237</u>	<u>558</u>	
2777	<u>114.7</u>	<u>72</u>	<u>218</u>	<u>558</u>	
3282	<u>113.0</u>	<u>65</u>	<u>215</u>	<u>561</u>	
3284	<u>112.5</u>	<u>70</u>	<u>228</u>	<u>561</u>	
3385	<u>113.0</u>	<u>66</u>	<u>236</u>	<u>561</u>	
3685	<u>105.1</u>	<u>50</u>	<u>224</u>	<u>558</u>	
3784	<u>112.6</u>	<u>66</u>	<u>247</u>	<u>558</u>	
3887	<u>106.2</u>	<u>60</u>	<u>227</u>	<u>558</u>	

Downstream Probe Thermocouple Readings

2272	1 <u>120</u> 2 <u>106</u> 3 <u>125</u> 4 <u>111</u> 5 <u>112</u> 6 <u>120</u> 7 <u>115</u> 8 <u>113</u>	2774	1 <u>—</u> 2 <u>107</u> 3 <u>114</u> 4 <u>72</u> 5 <u>—</u> 6 <u>64</u> 7 <u>122</u> 8 <u>—</u>	2777	1 <u>115</u> 2 <u>109</u> 3 <u>115</u> 4 <u>110</u> 5 <u>113</u> 6 <u>112</u> 7 <u>112</u> 8 <u>110</u>	3282	1 <u>117</u> 2 <u>110</u> 3 <u>110</u> 4 <u>110</u> 5 <u>110</u> 6 <u>110</u> 7 <u>110</u> 8 <u>—</u>	3284	1 <u>111</u> 2 <u>110</u> 3 <u>110</u> 4 <u>110</u> 5 <u>110</u> 6 <u>110</u> 7 <u>112</u> 8 <u>110</u>	3385	1 <u>112</u> 2 <u>109</u> 3 <u>111</u> 4 <u>113</u> 5 <u>113</u> 6 <u>111</u> 7 <u>112</u> 8 <u>110</u>
3685	1 <u>105</u> 2 <u>—</u> 3 <u>105</u> 4 <u>111</u> 5 <u>103</u> 6 <u>112</u> 7 <u>105</u> 8 <u>110</u>	3784	1 <u>114</u> 2 <u>115</u> 3 <u>126</u> 4 <u>124</u> 5 <u>117</u> 6 <u>112</u> 7 <u>120</u> 8 <u>117</u>	3887	1 <u>116</u> 2 <u>117</u> 3 <u>105</u> 4 <u>114</u> 5 <u>110</u> 6 <u>112</u> 7 <u>112</u> 8 <u>112</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 10-22-61 Inlet Temperature 17.9 Pile Power Level 1755 Time 1910

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	<u>118.5</u>	<u>64</u>	<u>239</u>	<u>559</u>	
2774	<u>122.6</u>	<u>64</u>	<u>237</u>	<u>557</u>	
2777	<u>123.2</u>	<u>62</u>	<u>218</u>	<u>557</u>	
3282	<u>113.5</u>	<u>65</u>	<u>215</u>	<u>561</u>	
3284	<u>113.6</u>	<u>71</u>	<u>228</u>	<u>561</u>	
3385	<u>113.6</u>	<u>62</u>	<u>220</u>	<u>562</u>	
3685	<u>109.2</u>	<u>62</u>	<u>224</u>	<u>557</u>	
3784	<u>110.2</u>	<u>67</u>	<u>247</u>	<u>557</u>	
3887	<u>102.5</u>	<u>54</u>	<u>227</u>	<u>557</u>	

Downstream Probe Thermocouple Readings

2272	1 <u>146</u>	2774	1 <u>-</u>	2777	1 <u>133</u>	3282	1 <u>127</u>	3284	1 <u>123</u>	3385	1 <u>120</u>
	2 <u>106</u>		2 <u>-</u>		2 <u>112</u>		2 <u>104</u>		2 <u>111</u>		2 <u>114</u>
	3 <u>141</u>		3 <u>124</u>		3 <u>130</u>		3 <u>136</u>		3 <u>-</u>		3 <u>116</u>
	4 <u>144</u>		4 <u>46</u>		4 <u>127</u>		4 <u>114</u>		4 <u>124</u>		4 <u>120</u>
	5 <u>128</u>		5 <u>-</u>		5 <u>122</u>		5 <u>126</u>		5 <u>124</u>		5 <u>112</u>
	6 <u>134</u>		6 <u>40</u>		6 <u>120</u>		6 <u>110</u>		6 <u>110</u>		6 <u>116</u>
	7 <u>116</u>		7 <u>-</u>		7 <u>125</u>		7 <u>115</u>		7 <u>111</u>		7 <u>117</u>
	8 <u>120</u>		8 <u>-</u>		8 <u>125</u>		8 <u>114</u>		8 <u>48</u>		8 <u>114</u>
3685	1 <u>110</u>	3784	1 <u>121</u>	3887	1 <u>107</u>						
	2 <u>116</u>		2 <u>111</u>		2 <u>94</u>						
	3 <u>114</u>		3 <u>112</u>		3 <u>109</u>						
	4 <u>120</u>		4 <u>124</u>		4 <u>120</u>						
	5 <u>100</u>		5 <u>108</u>		5 <u>110</u>						
	6 <u>122</u>		6 <u>125</u>		6 <u>102</u>						
	7 <u>124</u>		7 <u>121</u>		7 <u>105</u>						
	8 <u>104</u>		8 <u>117</u>		8 <u>104</u>						

NOTE: Data to be taken daily during operation.

(When Filled In)

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 10-25-61 Inlet Temperature 116.2 Pile Power Level 1760 Time 0830

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panel lit Dial</u>	<u>Panel lit Base</u>	<u>Front Header Pressure</u>	
2772	112	212	212	212	
2774	112	212	212	212	
2777	112	212	212	212	
3282	112	212	212	212	
3284	112	212	212	212	
3385	112	212	212	212	
3685	112	212	212	212	
3784	112	212	212	212	
3887	112	212	212	212	

Downstream Probe Thermocouple Readings

2272	1 138 2 138 3 138 4 138 5 138 6 124 7 138 8 138	2774	1 — 2 — 3 — 4 — 5 — 6 112 7 — 8 —	2777	1 126 2 126 3 126 4 126 5 126 6 126 7 126 8 116	3282	1 126 2 126 3 126 4 126 5 126 6 126 7 126 8 126	3284	1 126 2 126 3 126 4 126 5 126 6 126 7 126 8 126	3385	1 121 2 121 3 121 4 121 5 121 6 121 7 121 8 121
3685	1 126 2 126 3 126 4 126 5 126 6 126 7 126 8 126	3784	1 121 2 121 3 121 4 121 5 121 6 121 7 121 8 121	3887	1 126 2 126 3 126 4 126 5 126 6 126 7 126 8 126						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 10-24-61 Inlet Temperature 15.9 Pile Power Level 1775 Time 9:10

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panel lit Dial</u>	<u>Panel lit Base</u>	<u>Front Header Pressure</u>	
2772	<u>108.5</u>	<u>63</u>	<u>209</u>	<u>559</u>	
2774	<u>112.0</u>	<u>63</u>	<u>237</u>	<u>559</u>	
2777	<u>111.3</u>	<u>64</u>	<u>225</u>	<u>559</u>	
3282	<u>109.8</u>	<u>66</u>	<u>215</u>	<u>561</u>	
3284	<u>110.3</u>	<u>63</u>	<u>238</u>	<u>561</u>	
3385	<u>111.0</u>	<u>68</u>	<u>236</u>	<u>564</u>	
3685	<u>107.0</u>	<u>60</u>	<u>224</u>	<u>554</u>	
3784	<u>113.2</u>	<u>62</u>	<u>247</u>	<u>554</u>	
3887	<u>106.7</u>	<u>55</u>	<u>227</u>	<u>551</u>	

Downstream Probe Thermocouple Readings

2272	<u>1 124</u> <u>2 103</u> <u>3 122</u> <u>4 123</u> <u>5 121</u> <u>6 123</u> <u>7 119</u> <u>8 119</u>	2774	<u>1 161</u> <u>2 122</u> <u>3 120</u> <u>4 88</u> <u>5 50</u> <u>6 50</u> <u>7 122</u> <u>8 20</u>	2777	<u>1 123</u> <u>2 115</u> <u>3 123</u> <u>4 122</u> <u>5 120</u> <u>6 120</u> <u>7 121</u> <u>8 120</u>	3282	<u>1 123</u> <u>2 118</u> <u>3 120</u> <u>4 120</u> <u>5 123</u> <u>6 118</u> <u>7 119</u> <u>8 118</u>	3284	<u>1 121</u> <u>2 115</u> <u>3 120</u> <u>4 123</u> <u>5 118</u> <u>6 120</u> <u>7 121</u> <u>8 85</u>	3385	<u>1 121</u> <u>2 118</u> <u>3 120</u> <u>4 121</u> <u>5 117</u> <u>6 120</u> <u>7 120</u> <u>8 110</u>
3685	<u>1 112</u> <u>2 75</u> <u>3 115</u> <u>4 125</u> <u>5 120</u> <u>6 121</u> <u>7 120</u> <u>8 84</u>	3784	<u>1 116</u> <u>2 116</u> <u>3 120</u> <u>4 123</u> <u>5 120</u> <u>6 115</u> <u>7 124</u> <u>8 84</u>	3887	<u>1 122</u> <u>2 110</u> <u>3 123</u> <u>4 120</u> <u>5 123</u> <u>6 118</u> <u>7 120</u> <u>8 114</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UN-2 TEST, PT-IP-310-A-PP
D REACTOR

Date 12-29-61 Inlet Temperature 16.5 Pile Power Level 16.90 Time 1330

Tube	Outlet Temperature	Panel 114t Dial	Panel 114t Base	Front Header Pressure
2772	100.0	6.3	2.08	52.3
2774	100.0	6.8	2.10	52.3
2777	104.6	7.1	2.15	52.3
3282	104.6	7.6	2.15	52.3
3284	104.6	7.8	2.15	52.3
3385	104.6	7.8	2.15	52.3
3685	103.7	6.1	2.20	52.3
3784	104.8	6.7	2.20	52.3
3887	100.0	6.0	2.15	52.3

Downstream Probe Thermocouple Readings

2772	1 138	2 57	3 34	4 134	5 122	6 124	7 125	8 125
2774	1 -	2 -	3 -	4 40	5 -	6 36	7 -	8 -
2777	1 -	2 12	3 12	4 115	5 112	6 116	7 115	8 112
3282	1 127	2 117	3 136	4 123	5 124	6 124	7 127	8 120
3284	1 120	2 114	3 -	4 127	5 121	6 125	7 -	8 -
3385	1 128	2 117	3 124	4 125	5 123	6 123	7 124	8 118

NOTE: Data to be taken daily during operation.

3685	1 120	2 -	3 120	4 -	5 116	6 118	7 -	8 -
3784	1 114	2 113	3 -	4 112	5 -	6 -	7 -	8 -
3887	1 -	2 -	3 -	4 -	5 113	6 -	7 -	8 110

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 10/2/54 Inlet Temperature 154 Pile Power Level 1715 Time 05-5

Tube	Outlet Temperature	Panel lit Dial	Panel lit Base	Front Header Pressure	
2772	114.2	64	508	563	
2774	112.4	67	537	563	
2777	115.3	62	527	563	
3282	111.6	62	515	563	
3284	111.0	62	534	563	
3385	109.2	60	523	563	
3685	109.7	60	524	564	
3784	109.6	60	517	564	
3887	95.7	60	542	561	

Downstream Probe Thermocouple Readings

2772	1 <u>124</u> 2 <u>112</u> 3 <u>146</u> 4 <u>125</u> 5 <u>128</u> 6 <u>131</u> 7 <u>104</u> 8 <u>117</u>	2774	1 <u>—</u> 2 <u>—</u> 3 <u>—</u> 4 <u>—</u> 5 <u>—</u> 6 <u>75</u> 7 <u>—</u> 8 <u>—</u>	2777	1 <u>128</u> 2 <u>127</u> 3 <u>122</u> 4 <u>124</u> 5 <u>128</u> 6 <u>118</u> 7 <u>124</u> 8 <u>120</u>	3282	1 <u>124</u> 2 <u>103</u> 3 <u>126</u> 4 <u>122</u> 5 <u>128</u> 6 <u>125</u> 7 <u>125</u> 8 <u>122</u>	3284	1 <u>115</u> 2 <u>102</u> 3 <u>—</u> 4 <u>122</u> 5 <u>105</u> 6 <u>110</u> 7 <u>117</u> 8 <u>—</u>	3385	1 <u>119</u> 2 <u>150</u> 3 <u>115</u> 4 <u>117</u> 5 <u>112</u> 6 <u>112</u> 7 <u>114</u> 8 <u>110</u>
3685	1 <u>100</u> 2 <u>100</u> 3 <u>100</u> 4 <u>100</u> 5 <u>100</u> 6 <u>117</u> 7 <u>102</u> 8 <u>114</u>	3784	1 <u>115</u> 2 <u>107</u> 3 <u>100</u> 4 <u>117</u> 5 <u>102</u> 6 <u>110</u> 7 <u>110</u> 8 <u>112</u>	3887	1 <u>102</u> 2 <u>102</u> 3 <u>102</u> 4 <u>102</u> 5 <u>102</u> 6 <u>102</u> 7 <u>102</u> 8 <u>102</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-PP
D REACTOR

Date 10/31/61 Inlet Temperature 15.3 Pile Power Level 1725 Time 0945

Tube	Outlet Temperature	Panellit Dial	Panellit Base	Front Header Pressure	
2772	23 102.6	65	2109	564	
2774	42 103.5	71	2110	564	
2777	60 103.5	66	2127	564	
3282	68 105.6	66	215	567	
3284	68 114.5	63	2110	567	
3385	8 112.6	66	2133	560	
3685	102.6	66	2122	564	
3784	111.6	67	2111	564	
3887	102.7	66	2111	553	

Downstream Probe Thermocouple Readings

2772	1 132	2774	1 -	2777	1 122	3282	1 125	3284	1 118	3385	1 122
2	99	2	-	2	62	2	101	2	102	2	102
3	132	3	-	3	114	3	134	3	-	3	118
4	132	4	66	4	116	4	110	4	123	4	120
5	126	5	-	5	112	5	127	5	103	5	115
6	101	6	27	6	104	6	104	6	110	6	112
7	107	7	-	7	112	7	108	7	111	7	117
8	105	8	-	8	112	8	111	8	92	8	113
3685	1 107	3784	1 116	3887	1 105						
2	97	2	108	2	97						
3	107	3	109	3	107						
4	130	4	119	4	102						
5	92	5	102	5	110						
6	110	6	101	6	100						
7	107	7	114	7	104						
8	107	8	112	8	105						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 11-1-61 Inlet Temperature _____ Pile Power Level 1760 Time _____

<u>Tube</u>	<u>Outlet Temperature</u>	<u>Panellit Dial</u>	<u>Panellit Base</u>	<u>Front Header Pressure</u>	
2772	<u>110.8</u>	<u>64</u>	<u>208</u>	<u>562</u>	
2774	<u>109.0</u>	<u>47</u>	<u>237</u>	<u>562</u>	
2777	<u>114.7</u>	<u>63</u>	<u>227</u>	<u>542</u>	
3282	<u>113.2</u>	<u>67</u>	<u>215</u>	<u>566</u>	
3284	<u>115.0</u>	<u>63</u>	<u>236</u>	<u>566</u>	
3385	<u>114.9</u>	<u>67</u>	<u>233</u>	<u>564</u>	
3685	<u>114.5</u>	<u>62</u>	<u>224</u>	<u>564</u>	
3784	<u>114.7</u>	<u>68</u>	<u>247</u>	<u>574</u>	
3887	<u>103.6</u>	<u>41</u>	<u>242</u>	<u>552</u>	

Downstream Probe Thermocouple Readings

2772	1 <u>110.8</u>	2774	1 <u>109.0</u>	2777	1 <u>114.7</u>	3282	1 <u>113.2</u>	3284	1 <u>115.0</u>	3385	1 <u>114.9</u>
	2 <u>109.0</u>		2 <u>109.0</u>		2 <u>114.7</u>		2 <u>113.2</u>		2 <u>115.0</u>		2 <u>114.9</u>
	3 <u>109.0</u>		3 <u>109.0</u>		3 <u>114.7</u>		3 <u>113.2</u>		3 <u>115.0</u>		3 <u>114.9</u>
	4 <u>109.0</u>		4 <u>109.0</u>		4 <u>114.7</u>		4 <u>113.2</u>		4 <u>115.0</u>		4 <u>114.9</u>
	5 <u>126</u>		5 <u>126</u>		5 <u>114.7</u>		5 <u>113.2</u>		5 <u>115.0</u>		5 <u>114.9</u>
	6 <u>128</u>		6 <u>128</u>		6 <u>114.7</u>		6 <u>113.2</u>		6 <u>115.0</u>		6 <u>114.9</u>
	7 <u>114.1</u>		7 <u>114.1</u>		7 <u>114.7</u>		7 <u>113.2</u>		7 <u>115.0</u>		7 <u>114.9</u>
	8 <u>114.1</u>		8 <u>114.1</u>		8 <u>114.7</u>		8 <u>113.2</u>		8 <u>115.0</u>		8 <u>114.9</u>
3685	1 <u>114.5</u>	3784	1 <u>114.7</u>	3887	1 <u>103.6</u>						
	2 <u>114.5</u>		2 <u>114.7</u>		2 <u>103.6</u>						
	3 <u>114.5</u>		3 <u>114.7</u>		3 <u>103.6</u>						
	4 <u>114.5</u>		4 <u>114.7</u>		4 <u>103.6</u>						
	5 <u>114.5</u>		5 <u>114.7</u>		5 <u>103.6</u>						
	6 <u>114.5</u>		6 <u>114.7</u>		6 <u>103.6</u>						
	7 <u>114.5</u>		7 <u>114.7</u>		7 <u>103.6</u>						
	8 <u>114.5</u>		8 <u>114.7</u>		8 <u>103.6</u>						

NOTE: Data to be taken daily during operation.

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DAILY DATA SHEETS
UT-2 TEST, PT-IP-310-A-FP
D REACTOR

Date 1-2-61 Inlet Temperature 155 Pile Power Level 1965 Time 01:30

Tube	Outlet Temperature	Panellit Dial	Panellit Base	Front Header Pressure	
2772	107.5	64	208	564	
2774	106.0	46	237	569	
2777	110.1	61	227	569	
3282	110.5	67	215	565	
3284	113.3	69	232	565	
3385	113.5	67	233	570	
3685	103.0	61	229	562	
3784	113.5	65	247	565	
3887	104.5	41	242	553	

Downstream Probe Thermocouple Readings

2772	1 138	2774	1 NG	2777	1 125	3282	1 126	3284	1 121	3385	1 124
2 76	2 NG	2 169	2 106	2 169	2 106	2 106	2 106	2 106	2 106	2 106	2 106
3 134	3 NG	3 125	3 135	3 125	3 135	3 135	3 135	3 135	3 135	3 135	3 135
4 134	4 45	4 115	4 125	4 115	4 125	4 125	4 125	4 125	4 125	4 125	4 125
5 122	5 NG	5 115	5 125	5 115	5 125	5 125	5 125	5 125	5 125	5 125	5 125
6 125	6 39	6 110	6 125	6 110	6 125	6 125	6 125	6 125	6 125	6 125	6 125
7 127	7 NG	7 116	7 125	7 116	7 125	7 125	7 125	7 125	7 125	7 125	7 125
8 116	8 NG	8 114	8 125	8 114	8 125	8 125	8 125	8 125	8 125	8 125	8 125

3685	1 110	3784	1 110	3887	1 107
2 98	2 110	2 95	2 95	2 95	
3 110	3 111	3 105	3 105	3 105	
4 100	4 111	4 100	4 100	4 100	
5 110	5 110	5 110	5 110	5 110	
6 110	6 110	6 110	6 110	6 110	
7 110	7 110	7 110	7 110	7 110	
8 110	8 110	8 110	8 110	8 110	

NOTE: Data to be taken daily during operation.

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END