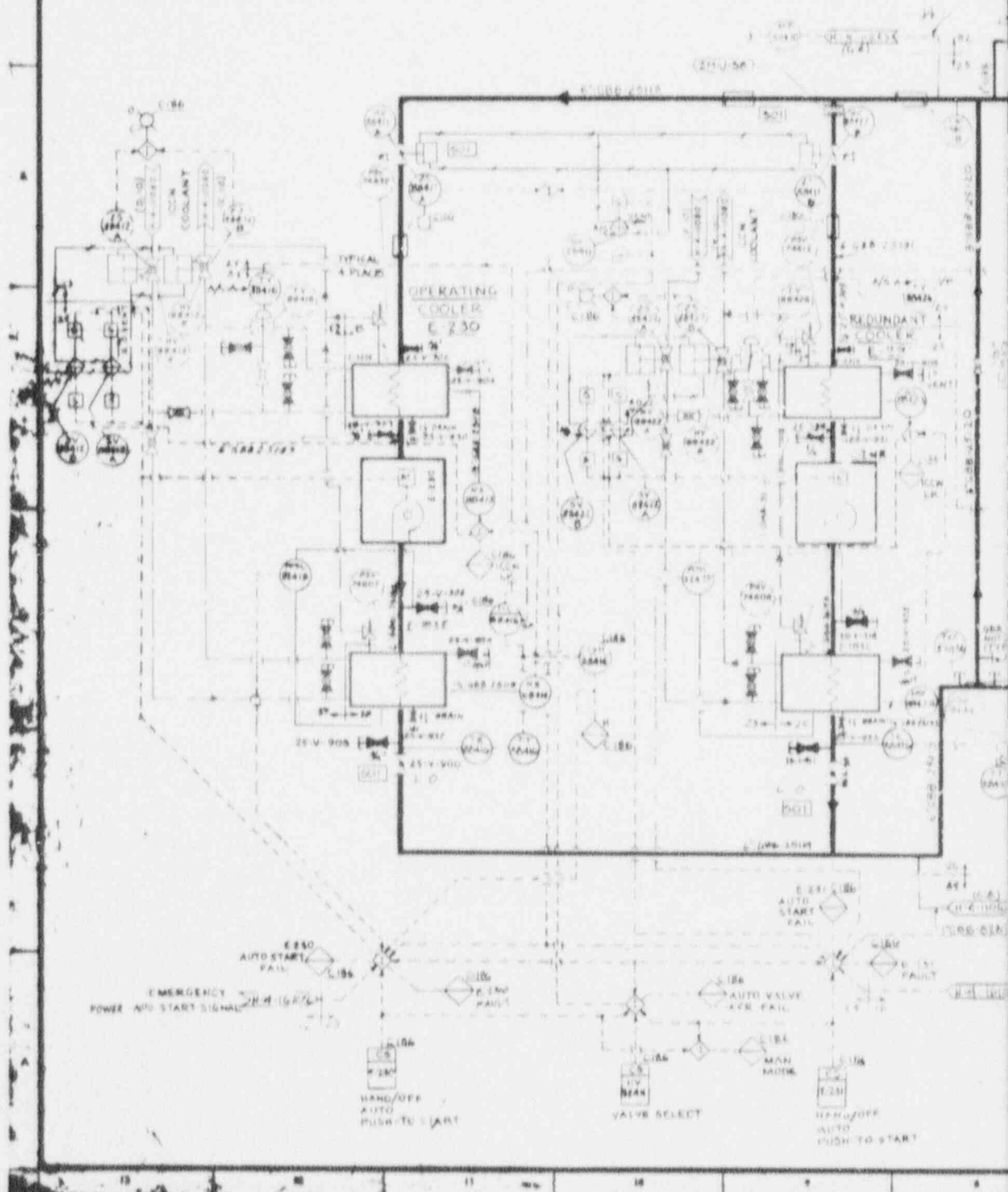


TIC - 88400 MASTER	TIC - 88400 SUBMASTER	TV - 88412
501°F	75°F	501°F
515°F	70°F	501°F



800110569

# NOTES: CONT.

12. ALL PIPING SHALL BE ANME SECT III, CLASS 2, EXCEPT CHILLED WATER VENTS, DRAINS, AND PRESSURE RELIEF LINES WHICH SHALL BE ANME SECT III, CLASS 3.

NEXT USED ON:

## REFERENCE DRAWINGS

FIG. NO.	DATE	DESCRIPTION
H-4-12127		LOGIC DIAG, LLM GAS COOLERS SYSTEM 25
H-4-11571		FLOW DIAG, LLM SYS 25
H-4-23453		HEAD COMPARTMENT LLM PIPING SYS 32

## NOTES:

1. SEE PWD H-4-10453 THRU H-4-10456 FOR LLM 100% FLOW TEST LOGS.
2. DON'T DISAPPROVED BY HED (H-4-10453 & 10456) PRIOR TO RELEASE OF LLM 10.
3. FOR ALTERNATE SUPPLY FOR PNEUMATIC INSTRUMENTS SHOWN ON THIS DRAWING SEE PWD H-4-11571.
4. THERMAL PIPE STRESS ANALYSIS IN ACCORDANCE WITH ANME SECTION III, CLASS 2, IS REQUIRED FOR LINES 3" 4" 6" 8" 10" 12" 14" 16" 18" 20" 24" 30" 36" 42" 48" 54" 60" 66" 72" 78" 84" 90" 96" 102" 108" 114" 120" 126" 132" 138" 144" 150" 156" 162" 168" 174" 180" 186" 192" 198" 204" 210" 216" 222" 228" 234" 240" 246" 252" 258" 264" 270" 276" 282" 288" 294" 300" 306" 312" 318" 324" 330" 336" 342" 348" 354" 360" 366" 372" 378" 384" 390" 396" 402" 408" 414" 420" 426" 432" 438" 444" 450" 456" 462" 468" 474" 480" 486" 492" 498" 504" 510" 516" 522" 528" 534" 540" 546" 552" 558" 564" 570" 576" 582" 588" 594" 600" 606" 612" 618" 624" 630" 636" 642" 648" 654" 660" 666" 672" 678" 684" 690" 696" 702" 708" 714" 720" 726" 732" 738" 744" 750" 756" 762" 768" 774" 780" 786" 792" 798" 804" 810" 816" 822" 828" 834" 840" 846" 852" 858" 864" 870" 876" 882" 888" 894" 900" 906" 912" 918" 924" 930" 936" 942" 948" 954" 960" 966" 972" 978" 984" 990" 996" 1002" 1008" 1014" 1020" 1026" 1032" 1038" 1044" 1050" 1056" 1062" 1068" 1074" 1080" 1086" 1092" 1098" 1104" 1110" 1116" 1122" 1128" 1134" 1140" 1146" 1152" 1158" 1164" 1170" 1176" 1182" 1188" 1194" 1200" 1206" 1212" 1218" 1224" 1230" 1236" 1242" 1248" 1254" 1260" 1266" 1272" 1278" 1284" 1290" 1296" 1302" 1308" 1314" 1320" 1326" 1332" 1338" 1344" 1350" 1356" 1362" 1368" 1374" 1380" 1386" 1392" 1398" 1404" 1410" 1416" 1422" 1428" 1434" 1440" 1446" 1452" 1458" 1464" 1470" 1476" 1482" 1488" 1494" 1500" 1506" 1512" 1518" 1524" 1530" 1536" 1542" 1548" 1554" 1560" 1566" 1572" 1578" 1584" 1590" 1596" 1602" 1608" 1614" 1620" 1626" 1632" 1638" 1644" 1650" 1656" 1662" 1668" 1674" 1680" 1686" 1692" 1698" 1704" 1710" 1716" 1722" 1728" 1734" 1740" 1746" 1752" 1758" 1764" 1770" 1776" 1782" 1788" 1794" 1800" 1806" 1812" 1818" 1824" 1830" 1836" 1842" 1848" 1854" 1860" 1866" 1872" 1878" 1884" 1890" 1896" 1902" 1908" 1914" 1920" 1926" 1932" 1938" 1944" 1950" 1956" 1962" 1968" 1974" 1980" 1986" 1992" 1998" 2004" 2010" 2016" 2022" 2028" 2034" 2040" 2046" 2052" 2058" 2064" 2070" 2076" 2082" 2088" 2094" 2100" 2106" 2112" 2118" 2124" 2130" 2136" 2142" 2148" 2154" 2160" 2166" 2172" 2178" 2184" 2190" 2196" 2202" 2208" 2214" 2220" 2226" 2232" 2238" 2244" 2250" 2256" 2262" 2268" 2274" 2280" 2286" 2292" 2298" 2304" 2310" 2316" 2322" 2328" 2334" 2340" 2346" 2352" 2358" 2364" 2370" 2376" 2382" 2388" 2394" 2400" 2406" 2412" 2418" 2424" 2430" 2436" 2442" 2448" 2454" 2460" 2466" 2472" 2478" 2484" 2490" 2496" 2502" 2508" 2514" 2520" 2526" 2532" 2538" 2544" 2550" 2556" 2562" 2568" 2574" 2580" 2586" 2592" 2598" 2604" 2610" 2616" 2622" 2628" 2634" 2640" 2646" 2652" 2658" 2664" 2670" 2676" 2682" 2688" 2694" 2700" 2706" 2712" 2718" 2724" 2730" 2736" 2742" 2748" 2754" 2760" 2766" 2772" 2778" 2784" 2790" 2796" 2802" 2808" 2814" 2820" 2826" 2832" 2838" 2844" 2850" 2856" 2862" 2868" 2874" 2880" 2886" 2892" 2898" 2904" 2910" 2916" 2922" 2928" 2934" 2940" 2946" 2952" 2958" 2964" 2970" 2976" 2982" 2988" 2994" 3000" 3006" 3012" 3018" 3024" 3030" 3036" 3042" 3048" 3054" 3060" 3066" 3072" 3078" 3084" 3090" 3096" 3102" 3108" 3114" 3120" 3126" 3132" 3138" 3144" 3150" 3156" 3162" 3168" 3174" 3180" 3186" 3192" 3198" 3204" 3210" 3216" 3222" 3228" 3234" 3240" 3246" 3252" 3258" 3264" 3270" 3276" 3282" 3288" 3294" 3300" 3306" 3312" 3318" 3324" 3330" 3336" 3342" 3348" 3354" 3360" 3366" 3372" 3378" 3384" 3390" 3396" 3402" 3408" 3414" 3420" 3426" 3432" 3438" 3444" 3450" 3456" 3462" 3468" 3474" 3480" 3486" 3492" 3498" 3504" 3510" 3516" 3522" 3528" 3534" 3540" 3546" 3552" 3558" 3564" 3570" 3576" 3582" 3588" 3594" 3600" 3606" 3612" 3618" 3624" 3630" 3636" 3642" 3648" 3654" 3660" 3666" 3672" 3678" 3684" 3690" 3696" 3702" 3708" 3714" 3720" 3726" 3732" 3738" 3744" 3750" 3756" 3762" 3768" 3774" 3780" 3786" 3792" 3798" 3804" 3810" 3816" 3822" 3828" 3834" 3840" 3846" 3852" 3858" 3864" 3870" 3876" 3882" 3888" 3894" 3900" 3906" 3912" 3918" 3924" 3930" 3936" 3942" 3948" 3954" 3960" 3966" 3972" 3978" 3984" 3990" 3996" 4002" 4008" 4014" 4020" 4026" 4032" 4038" 4044" 4050" 4056" 4062" 4068" 4074" 4080" 4086" 4092" 4098" 4104" 4110" 4116" 4122" 4128" 4134" 4140" 4146" 4152" 4158" 4164" 4170" 4176" 4182" 4188" 4194" 4200" 4206" 4212" 4218" 4224" 4230" 4236" 4242" 4248" 4254" 4260" 4266" 4272" 4278" 4284" 4290" 4296" 4302" 4308" 4314" 4320" 4326" 4332" 4338" 4344" 4350" 4356" 4362" 4368" 4374" 4380" 4386" 4392" 4398" 4404" 4410" 4416" 4422" 4428" 4434" 4440" 4446" 4452" 4458" 4464" 4470" 4476" 4482" 4488" 4494" 4500" 4506" 4512" 4518" 4524" 4530" 4536" 4542" 4548" 4554" 4560" 4566" 4572" 4578" 4584" 4590" 4596" 4602" 4608" 4614" 4620" 4626" 4632" 4638" 4644" 4650" 4656" 4662" 4668" 4674" 4680" 4686" 4692" 4698" 4704" 4710" 4716" 4722" 4728" 4734" 4740" 4746" 4752" 4758" 4764" 4770" 4776" 4782" 4788" 4794" 4800" 4806" 4812" 4818" 4824" 4830" 4836" 4842" 4848" 4854" 4860" 4866" 4872" 4878" 4884" 4890" 4896" 4902" 4908" 4914" 4920" 4926" 4932" 4938" 4944" 4950" 4956" 4962" 4968" 4974" 4980" 4986" 4992" 4998" 5004" 5010" 5016" 5022" 5028" 5034" 5040" 5046" 5052" 5058" 5064" 5070" 5076" 5082" 5088" 5094" 5100" 5106" 5112" 5118" 5124" 5130" 5136" 5142" 5148" 5154" 5160" 5166" 5172" 5178" 5184" 5190" 5196" 5202" 5208" 5214" 5220" 5226" 5232" 5238" 5244" 5250" 5256" 5262" 5268" 5274" 5280" 5286" 5292" 5298" 5304" 5310" 5316" 5322" 5328" 5334" 5340" 5346" 5352" 5358" 5364" 5370" 5376" 5382" 5388" 5394" 5400" 5406" 5412" 5418" 5424" 5430" 5436" 5442" 5448" 5454" 5460" 5466" 5472" 5478" 5484" 5490" 5496" 5502" 5508" 5514" 5520" 5526" 5532" 5538" 5544" 5550" 5556" 5562" 5568" 5574" 5580" 5586" 5592" 5598" 5604" 5610" 5616" 5622" 5628" 5634" 5640" 5646" 5652" 5658" 5664" 5670" 5676" 5682" 5688" 5694" 5700" 5706" 5712" 5718" 5724" 5730" 5736" 5742" 5748" 5754" 5760" 5766" 5772" 5778" 5784" 5790" 5796" 5802" 5808" 5814" 5820" 5826" 5832" 5838" 5844" 5850" 5856" 5862" 5868" 5874" 5880" 5886" 5892" 5898" 5904" 5910" 5916" 5922" 5928" 5934" 5940" 5946" 5952" 5958" 5964" 5970" 5976" 5982" 5988" 5994" 6000" 6006" 6012" 6018" 6024" 6030" 6036" 6042" 6048" 6054" 6060" 6066" 6072" 6078" 6084" 6090" 6096" 6102" 6108" 6114" 6120" 6126" 6132" 6138" 6144" 6150" 6156" 6162" 6168" 6174" 6180" 6186" 6192" 6198" 6204" 6210" 6216" 6222" 6228" 6234" 6240" 6246" 6252" 6258" 6264" 6270" 6276" 6282" 6288" 6294" 6300" 6306" 6312" 6318" 6324" 6330" 6336" 6342" 6348" 6354" 6360" 6366" 6372" 6378" 6384" 6390" 6396" 6402" 6408" 6414" 6420" 6426" 6432" 6438" 6444" 6450" 6456" 6462" 6468" 6474" 6480" 6486" 6492" 6498" 6504" 6510" 6516" 6522" 6528" 6534" 6540" 6546" 6552" 6558" 6564" 6570" 6576" 6582" 6588" 6594" 6600" 6606" 6612" 6618" 6624" 6630" 6636" 6642" 6648" 6654" 6660" 6666" 6672" 6678" 6684" 6690" 6696" 6702" 6708" 6714" 6720" 6726" 6732" 6738" 6744" 6750" 6756" 6762" 6768" 6774" 6780" 6786" 6792" 6798" 6804" 6810" 6816" 6822" 6828" 6834" 6840" 6846" 6852" 6858" 6864" 6870" 6876" 6882" 6888" 6894" 6900" 6906" 6912" 6918" 6924" 6930" 6936" 6942" 6948" 6954" 6960" 6966" 6972" 6978" 6984" 6990" 6996" 7002" 7008" 7014" 7020" 7026" 7032" 7038" 7044" 7050" 7056" 7062" 7068" 7074" 7080" 7086" 7092" 7098" 7104" 7110" 7116" 7122" 7128" 7134" 7140" 7146" 7152" 7158" 7164" 7170" 7176" 7182" 7188" 7194" 7200" 7206" 7212" 7218" 7224" 7230" 7236" 7242" 7248" 7254" 7260" 7266" 7272" 7278" 7284" 7290" 7296" 7302" 7308" 7314" 7320" 7326" 7332" 7338" 7344" 7350" 7356" 7362" 7368" 7374" 7380" 7386" 7392" 7398" 7404" 7410" 7416" 7422" 7428" 7434" 7440" 7446" 7452" 7458" 7464" 7470" 7476" 7482" 7488" 7494" 7500" 7506" 7512" 7518" 7524" 7530" 7536" 7542" 7548" 7554" 7560" 7566" 7572" 7578" 7584" 7590" 7596" 7602" 7608" 7614" 7620" 7626" 7632" 7638" 7644" 7650" 7656" 7662" 7668" 7674" 7680" 7686" 7692" 7698" 7704" 7710" 7716" 7722" 7728" 7734" 7740" 7746" 7752" 7758" 7764" 7770" 7776" 7782" 7788" 7794" 7800" 7806" 7812" 7818" 7824" 7830" 7836" 7842" 7848" 7854" 7860" 7866" 7872" 7878" 7884" 7890" 7896" 7902" 7908" 7914" 7920" 7926" 7932" 7938" 7944" 7950" 7956" 7962" 7968" 7974" 7980" 7986" 7992" 7998" 8004" 8010" 8016" 8022" 8028" 8034" 8040" 8046" 8052" 8058" 8064" 8070" 8076" 8082" 8088" 8094" 8100" 8106" 8112" 8118" 8124" 8130" 8136" 8142" 8148" 8154" 8160" 8166" 8172" 8178" 8184" 8190" 8196" 8202" 8208" 8214" 8220" 8226" 8232" 8238" 8244" 8250" 8256" 8262" 8268" 8274" 8280" 8286" 8292" 8298" 8304" 8310" 8316" 8322" 8328" 8334" 8340" 8346" 8352" 8358" 8364" 8370" 8376" 8382" 8388" 8394" 8400" 8406" 8412" 8418" 8424" 8430" 8436" 8442" 8448" 8454" 8460" 8466" 8472" 8478" 8484" 8490" 8496" 8502" 8508" 8514" 8520" 8526" 8532" 8538" 8544" 8550" 8556" 8562" 8568" 8574" 8580" 8586" 8592" 8598" 8604" 8610" 8616" 8622" 8628" 8634" 8640" 8646" 8652" 8658" 8664" 8670" 8676" 8682" 8688" 8694" 8700" 8706" 8712" 8718" 8724" 8730" 8736" 8742" 8748" 8754" 8760" 8766" 8772" 8778" 8784" 8790" 8796" 8802" 8808" 8814" 8820" 8826" 8832" 8838" 8844" 8850" 8856" 8862" 8868" 8874" 8880" 8886" 8892" 8898" 8904" 8910" 8916" 8922" 8928" 8934" 8940" 8946" 8952" 8958" 8964" 8970" 8976" 8982" 8988" 8994" 9000" 9006" 9012" 9018" 9024" 9030" 9036" 9042" 9048" 9054" 9060" 9066" 9072" 9078" 9084" 9090" 9096" 9102" 9108" 9114" 9120" 9126" 9132" 9138" 9144" 9150" 9156" 9162" 9168" 9174" 9180" 9186" 9192" 9198" 9204" 9210" 9216" 9222" 9228" 9234" 9240" 9246" 9252" 9258" 9264" 9270" 9276" 9282" 9288" 9294" 9300" 9306" 9312" 9318" 9324" 9330" 9336" 9342" 9348" 9354" 9360" 9366" 9372" 9378" 9384" 9390" 9396" 9402" 9408" 9414" 9420" 9426" 9432" 9438" 9444" 9450" 9456" 9462" 9468" 9474" 9480" 9486" 9492" 9498" 9504" 9510" 9516" 9522" 9528" 9534" 9540" 9546" 9552" 9558" 9564" 9570" 9576" 9582" 9588" 9594" 9600" 9606" 9612" 9618" 9624" 9630" 9636" 9642" 9648" 9654" 9660" 9666" 9672" 9678" 9684" 9690" 9696" 9702" 9708" 9714" 9720" 9726" 9732" 9738" 9744" 9750" 9756" 9762" 9768" 9774" 9780" 9786" 9792" 9798" 9804" 9810" 9816" 9822" 9828" 9834" 9840" 9846" 9852" 9858" 9864" 9870" 9876" 9882" 9888" 9894" 9900" 9906" 9912" 9918" 9924" 9930" 9936" 9942" 9948" 9954" 9960" 9966" 9972" 9978" 9984" 9990" 9996" 10002" 10008" 10014" 10020" 10026" 10032" 10038" 10044" 10050" 10056" 10062" 10068" 10074" 10080" 10086" 10092" 10098" 10104" 10110" 10116" 10122" 10128" 10134" 10140" 10146" 10152" 10158" 10164" 10170" 10176" 10182" 10188" 10194" 10200" 10206" 10212" 10218" 10224" 10230" 10236" 10242" 10248" 10254" 10260" 10266" 10272" 10278" 10284" 10290" 10296" 10302" 10308" 10314" 10320" 10326" 10332" 10338" 10344" 10350" 10356" 10362" 10368" 10374" 10380" 10386" 10392" 10398" 10404" 10410" 10416" 10422" 10428" 10434" 10440" 10446" 10452" 10458" 10464" 10470" 10476" 10482" 10488" 10494" 10500" 10506" 10512" 10518" 10524" 10530" 10536" 10542" 10548" 10554" 10560" 10566" 10572" 10578" 10584" 10590" 10596" 10602" 10608" 10614" 10620" 10626" 10632" 10638" 10644" 10650" 10656" 10662" 10668" 10674" 10680" 10686" 10692" 10698" 10704" 10710" 10716" 10722" 10728" 10734" 10740" 10746" 10752" 10758" 10764" 10770" 10776" 10782" 10788" 10794" 10800" 10806" 10812" 10818" 10824" 10830" 10836" 10842" 10848" 10854" 10860" 10866" 10872" 10878" 10884" 10890" 10896" 10902" 10908" 10914" 10920" 10926" 10932" 10938" 10944" 10950" 10956" 10962" 10968" 10974" 10980" 10986" 10992" 10998" 11004" 11010" 11016" 11022" 11028" 11034" 11040" 11046" 11052" 11058" 11064" 11070" 11076" 11082" 11088" 11094" 11100" 11106" 11112" 11118" 11124" 11130" 11136" 11142" 11148" 11154" 11160" 11166" 11172" 11178" 11184" 11190" 11196" 11202" 11208" 11214" 11220" 11226" 11232" 11238" 11244" 11250" 11256" 11262" 11268" 11274" 11280" 11286" 11292" 11298" 11304" 11310" 11316" 11322" 11328" 11334" 11340" 11346" 11352" 11358" 11364" 11370" 11376" 11382" 11388" 11394" 11400" 11406" 11412" 11418" 11424" 11430" 11436" 11442" 11448" 11454" 11460" 11466" 11472" 11478" 11484" 11490" 11496" 11502" 11508" 11514" 11520" 11526" 11532" 11538" 11544" 11550" 11556" 11562" 11568" 11574" 11580" 11586" 11592" 11598" 11604" 11610" 11616" 116