

I. VINYL TANKFARMA. Hookup Stations

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>	
a. South	(ABER-VTF-H)	58 ☒	60 ☐
		59 ☒	
b. South Middle	(ABER-VTF-G)	61 ☒	63 ☐
		62 ☒	
c. North Middle	(ABER-VTF-G)	64 ☒	65 ☒
d. North	(ABER-VTF-F)	66 ☒	71 ☒
		67 ☒	72 ☒
		68 ☒	73 ☒
		69 ☒	74 ☐
		70 ☒	75 ☐

B. Compressor Shed

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>	
a. Piping	(ABER VTF 3)	1 ☒	3 ☒
		2 ☒	4 ☒
b. #5 Compressor	(ABER-VTF-I)	16 ☒	17 ☒
c. #4 Compressor	(ABER-VTF-II)	14 ☒	15 ☒
d. #3 Compressor	(ABER-VTF-J)	12 ☒	13 ☒
e. #2 Compressor	(ABER-VTF-K)	10 ☒	11 ☒
f. #1 Compressor	(ABER-VTF-L)	5 ☒	8 ☒
		6 ☒	9 ☒
		7 ☒	
g. S.ERS Collection Pot/Piping	(ABER-VTF-A)	23 ☒	25 ☒
		24 ☒	
h. ERS Collection Pot/Piping	(ABER-VTF-B)	22 ☒	
i. Piping Between Compressor Shed & Bullets	(ABER-VTF-2)	18 ☒	21 ☒
		19 ☒	26 ☒
		20 ☒	27 ☒

NOTE: 60, 63, 74, 75 → ALL Ports for BLEEDER VALVES
WHICH HAVE BEEN PIPED.
(NO VALVES ATTACHED)

I. VINYL TANKFARM (continued)C. Piping to Sphere

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>	
a. Between Compressor Shed & Sphere to Road (ABER-VTF-4)		28 ✓	29 ✓
b. Piping on the Bottom of the Sphere (ABER-VTF-5)		30 ✓	32 ✓
		31 ✓	39 ✓
c. Piping on top of the Sphere (ABER-VTF-E)		40 ✓	42 ✓
		41 ✓	43 ✓

D. Transfer Pumps

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>	
a. Sphere VCM transfer pumps (ABER-VTF-6)		33 ✓	36 ✓
		34 ✓	37 ✓
		35 ✓	38 ✓

II. OLD MODULEA. Reactors

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>	
a. D-300 reactor head/piping	(ABER-LRS-7)	270 ✓	279 ✓
		271 ✓	280 ✓
		277 ✓	281 ✓
		278 ✓	282 ✓
D-300 Bottom		361 ✓	362 ✓
b. D-400 reactor/piping head	(ABER-LRS-7)	294 ✓	302 ✓
		295 ✓	303 ✓
		300 ✓	305 ✓
		301 ✓	306 ✓
D-400 Bottom			
c. D-500 reactor head/piping	(ABER-LRS-8)	307 ✓	312 ✓
		308 ✓	313 ✓
		309 ✓	314 ✓
		310 ✓	328 ✓
		311 ✓	
D-500 Bottom		359 ✓	360 ✓
d. D-600 reactor/head piping	(ABER-LRS-8)	315 ✓	321 ✓
		316 ✓	322 ✓
		317 ✓	323 ✓
		318 ✓	324 ✓
		319 ✓	325 ✓
		320 ✓	
D-600 Bottom		357 ✓	358 ✓
e. D-700 reactor/head piping	(ABER-LRS-24)	329 ✓	331 ✓
		330 ✓	332 ✓
D-700 Condensor		333 ✓	
D-700 Bottom Piping		354 ✓	356 ✓
		355 ✓	
f. VCM charge line between D-300 & D-400	(ABER-LRS-7A)	288 ✓	289 ✓
g. VCM charge line to D-400	(ABER-LRS-8)	284 ✓	

II. OLD MODULE (continued)B. VCM Piping From Tank Farm to Old and New Module Receivers

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>
a. VCM charge line	(ABER-IRS-17)	44 ✓ 372 ✓
b. Pipe rack between D-400/D-500 (including rack to the new module)	(ABER-IRS-17)	290 ✓ 293 ✓ 298 ✓ 366 ✓ 369 ✓ 372 ✓ 291 ✓ 296 ✓ 299 ✓ 367 ✓ 370 ✓ 373 ✓ 292 ✓ 297 ✓ 365 ✓ 368 ✓ 371 ✓

C. VCM Receivers

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>
a. S RVCM/piping/pumps	(ABER-IRS-3)	87 ✓ 91 ✓ 95 ✓ 88 ✓ 92 ✓ 96 ✓ 89 ✓ 93 ✓ 97 ✓ 90 ✓ 94 ✓ 98 ✓
b. N RVCM/piping	(ABER-IRS-2)	76 ✓ 80 ✓ 84 ✓ 77 ✓ 81 ✓ 85 ✓ 78 ✓ 82 ✓ 86 ✓ 79 ✓ 83 ✓
c. FVCM/piping/pumps	(ABER-IRS-4)	99 ✓ 104 ✓ 109 ✓ 114 ✓ 100 ✓ 105 ✓ 110 ✓ 115 ✓ 101 ✓ 106 ✓ 111 ✓ 116 ✓ 102 ✓ 107 ✓ 112 ✓ 136 ✓ 103 ✓ 108 ✓ 113 ✓
d. RVCM Filter	(ABER-IRS-5)	128 ✓ 133 ✓ 135 ✓ 132 ✓ 134 ✓
e. FVCM Filters	(ABER-IRS-5)	117 ✓ 121 ✓ 125 ✓ 130 ✓ 118 ✓ 122 ✓ 126 ✓ 131 ✓ 119 ✓ 123 ✓ 127 ✓ 120 ✓ 124 ✓ 129 ✓
f. Piping in front of receivers	(ABER-IRS-6)	45 ✓ 51 ✓ 57 ✓ 267 ✓ 46 ✓ 52 ✓ 157 ✓ 268 ✓ 47 ✓ 53 ✓ 158 ✓ 269 ✓ 48 ✓ 54 ✓ 263 ✓ 49 ✓ 55 ✓ 264 ✓ 50 ✓ 56 ✓ 266 ✓

II. OLD MODULE (continued)D. Piping Between Receivers, Collect Tank & Recovery Building

<u>Drawing</u>	<u>Tag No. (s)</u>
(ABER-LRS-1)	137 ✓ 139 ✓ 160 ✓ 138 ✓ 159 ✓

E. Piping Next to Old Control Room Going to the Pipe Rack
Between D-400 & D-500

<u>Drawing</u>	<u>Tag No. (s)</u>
(ABER-LRS-16)	265 ✓ 274 ✓ 285 ✓ 272 ✓ 275 ✓ 286 ✓ 273 ✓ 276 ✓ 287 ✓

F. Batch Water Strippers

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>
a. North BWS	(ABER-LRS-22)	147 ✓ 150 ✓ 153 ✓ 148 ✓ 151 ✓ 154 ✓ 149 ✓ 152 ✓ 155 ✓ 156 ✓
b. South BWS	(ABER-LRS-23)	150 ✓ 142 ✓ 145 ✓ 140 ✓ 143 ✓ 146 ✓ 141 ✓ 144 ✓

NOTE: 143 → PLUGGED PORT w/ NO Valve.

II. OLD MODULE (continued)G. Incinerators

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>
a. Piping to Flame Arrestor	(ABER-IRS-25) (ABER-IRS-26)	344 ✓ 346 ✓ 349 ✓ 351 ✓ 345 ✓ 347 ✓ 350 ✓
b. Flame Arrestor to the Incinerator Piping	(ABER-IRS-26)	348 ✓
c. West Incinerator	(ABER-IRS-27)	339 341 340 342
d. East Incinerator	(ABER-IRS-27)	334 ✓ 336 ✓ 338 ✓ 335 ✓ 337 ✓

H. Recovery System

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>
a. Lead KO Pot	(ABER-IRS-15) (ABER-IRS-15A)	171 ✓ 173 ✓ 175 ✓ 172 ✓ 174 ✓
b. 2nd KO Pot/Piping	(ABER-IRS-15) (ABER-IRS-15A)	176 ✓ 178 ✓ 198 ✓ 177 ✓ 197 ✓
c. KO Pumps/Piping	(ABER-IRS-12)	199 ✓ 202 ✓ 201 ✓ 203 ✓
d. Vacuum pumps/Compressors/Piping	(ABER-IRS-14)	179 ✓ 182 ✓ 185 ✓ 188 ✓ 180 ✓ 183 ✓ 186 ✓ 189 ✓ 181 ✓ 184 ✓ 187 ✓
e. Seal water Separators/Piping	(ABER-IRS-14)	190 ✓ 193 ✓ 196 ✓ 191 ✓ 194 ✓ 200 ✓ 192 ✓ 195 ✓
f. Seal water Subcoolers/Piping	(ABER-IRS-13)	204 ✓ 208 ✓ 212 ✓ 243 ✓ 205 ✓ 209 ✓ 213 ✓ 206 ✓ 210 ✓ 214 ✓ 207 ✓ 211 ✓ 215 ✓
g. VOM Condensers	(ABER-IRS-11)	216 ✓ 283 ✓
h. Collect tank, KO Pot heat Exchanger	(ABER-IRS-10)	161 ✓ 164 ✓ 167 ✓ 170 ✓ 162 ✓ 165 ✓ 168 ✓ 163 ✓ 166 ✓ 169 ✓

III. EMISSION RECOVERY SYSTEM

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>
a. KO Pot/Piping/Head Exchanger	(ABER-LRS-19)	220 ✓ 221 ✓ 222 ✓
b. Seal Water Separators/Heat Exchanger on Roof	(ABER-LRS-20)	247 ✓ 250 ✓ 253 ✓ 248 ✓ 251 ✓ 245 ✓ 249 ✓ 252 ✓ 246 ✓
c. Seal Water Pumps/Filters	(ABER-LRS-20)	254 ✓ 257 ✓ 260 ✓ 255 ✓ 258 ✓ 261 ✓ 256 ✓ 259 ✓
d. KO Inlet Piping	(ABER-LRS-18)	217 ✓ 218 ✓ 219 ✓
e. Compressors/Vacuum Pumps/Piping	(ABER-LRS-21)	223 ✓ 229 ✓ 235 ✓ 224 ✓ 230 ✓ 236 ✓ 225 ✓ 231 ✓ 237 ✓ 226 ✓ 232 ✓ 238 ✓ 227 ✓ 233 ✓ 239 ✓ 228 ✓ 234 ✓ 240 ✓ 241 ✓ 243 ✓ 242 ✓ 244 ✓
F. Seal Water Heat Exchangers	(ABER-LRS-21)	262 ✓

IV. NEW MODULE (continued)B. VCM Receivers

<u>Location</u>	<u>Drawing</u>	<u>Tag No(s)</u>
a. East RVCM/piping	(ABER-12A)	443 ✓ 450 ✓ 459 ✓ 444 ✓ 457 ✓ 445 ✓ 458 ✓
b. West RVCM/piping	(ABER-12A)	446 ✓ 449 ✓ 460 ✓ 447 ✓ 455 ✓ 461 ✓ 448 ✓ 456 ✓ 462 ✓
c. FVCM/piping	(ABER-12A)	451 ✓ 454 ✓ 465 ✓ 452 ✓ 463 ✓ 466 ✓ 453 ✓ 464 ✓ 467 ✓
d. Pipe rack North of VCM Receivers	(ABER-12)	468 ✓ 475 ✓ 478 ✓ 469 ✓ 476 ✓ 479 ✓ 474 ✓ 477 ✓ 480 ✓ 481 ✓ 483 ✓ 482 ✓ 484 ✓
e. RVCM pumps/filter piping	(ABER-11)	485 ✓ 493 ✓ 498 ✓ 503 ✓ 489 ✓ 494 ✓ 499 ✓ 511 ✓ 490 ✓ 495 ✓ 500 ✓ 491 ✓ 496 ✓ 501 ✓ 492 ✓ 497 ✓ 502 ✓
f. FVCM pumps/filters piping	(ABER-11)	504 ✓ 512 ✓ 519 ✓ 505 ✓ 512 ✓ 520 ✓ 506 ✓ 514 ✓ 521 ✓ 507 ✓ 515 ✓ 522 ✓ 508 ✓ 516 ✓ 523 ✓ 509 ✓ 517 ✓ 510 ✓ 518 ✓

NOTE: ONE BLEEDER VALVE ON THE FVCM/piping IS USED IN SERVICE.

IV. NEW MODULEAREAA. ReactorsEXTRA IF NCS

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>	
a. RX 745 reactor head/piping	(ABER-24)	598 ✓ 600 ✓ 599 ✓ 601 ✓	
RX 745 condensor		602 ✓ 603 ✓	
RX 745 bottom piping		604 ✓ 606 ✓ 608 ✓ 605 ✓ 607 ✓	
b. RX 744 reactor head/piping	(ABER-4)	591 ✓ 593 ✓ 595 ✓ 592 ✓ 594 ✓	//
RX 744 condensor		596 ✓ 597 ✓	
RX 744 bottom piping		614 ✓	
c. RX 743 reactor head/piping	(ABER-3)	546 ✓ 589 ✓ 547 ✓ 563 ✓ 548 ✓	//
RX 743 condensor		587 ✓ 588 ✓ 590 ✓	
RX 743 bottom piping		611 ✓ 612 ✓	
d. RX 742 reactor head/piping	(ABER-2)	577 ✓ 580 ✓ 578 ✓ 581 ✓ 579 ✓ 582 ✓	//
RX 742 condensor		583 ✓ 585 ✓ 584 ✓ 586 ✓	
RX 742 bottom piping		609 ✓ 610 ✓	
e. RX 741 reactor head/piping	(ABER-1)	567 ✓ 570 ✓ 573 ✓ 568 ✓ 571 ✓ 569 ✓ 572 ✓	
RX 741 condensor		574 ✓ 576 ✓ 575 ✓	
RX 741 bottom piping		613 ✓ 616 ✓	

NEW MODULE (continued)

C. Blowdown Tank

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>	<u>EXTRA VALVES</u>
a. Pumps	(ABER-20)	535 ✓ 537 ✓ 539 ✓ 536 ✓ 538 ✓ 540 ✓	
b. Filters/piping	(ABER-20)	530 ✓ 532 ✓ 534 ✓ 556 ✓ 531 ✓ 533 ✓ 555 ✓	
c. Blowdown tank/piping	(ABER-20)	524 ✓ 526 ✓ 528 ✓ 541 ✓ 525 ✓ 527 ✓ 529 ✓ 542 ✓	

D. Recovery System

<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>	
a. KO Pots/piping - lead	(ABER-23)	374 ✓ 376 ✓ 378 ✓ 380 ✓ 375 ✓ 377 ✓ 379 ✓ 381 ✓	
- 2nd		382 ✓ 384 ✓ 383 ✓ 385 ✓	
b. Vacuum Pumps/piping	(ABER-22)	386 ✓ 388 ✓ 390 ✓ 405 ✓ 387 ✓ 389 ✓ 404 ✓	
c. Compressors/piping	(ABER-22)	391 ✓ 392 ✓ 393 ✓	
d. Seal Water Separators/piping	(ABER-22)	394 ✓ 396 ✓ 398 ✓ 400 ✓ 395 ✓ 397 ✓ 399 ✓	1
e. Relief Valve Line from SWS	(ABER-22)	401 ✓ 403 ✓ 402 ✓ 406 ✓	
f. Recovery Condensers	(ABER-21)	407 ✓ 409 ✓ 411 ✓ 412 ✓ 408 ✓ 410 ✓	
g. Seal Water pumps/filters/piping	(ABER-18)	428 ✓ 431 ✓ 434 ✓ 437 ✓ 440 ✓ 486 ✓ 429 ✓ 432 ✓ 435 ✓ 438 ✓ 441 ✓ 487 ✓ 430 ✓ 433 ✓ 436 ✓ 439 ✓ 442 ✓ 488 ✓	
h. Seal water heat exchangers	(ABER-18)	423 ✓ 425 ✓ 427 ✓ 424 ✓ 426 ✓	
i. KO Pot pumps/piping	(ABER-18)	416 ✓ 419 ✓ 422 ✓ 417 ✓ 420 ✓ 418 ✓ 421 ✓	
j. KO Pot heat exchange	(ABER-17)	413 ✓ 414 ✓ 415 ✓	

NEW MODULE (continued)

E. Pipe Racks

	<u>Location</u>	<u>Drawing</u>	<u>Tag No. (s)</u>
a.	Piping from receivers (North direction to West direction towards reactors)	(ABER-13)	543 ✓ 550 ✓ 544 ✓ 553 ✓ 545 ✓ 554 ✓ 549 ✓ 564 ✓ 565 ✓
b.	Piping from #E.a. towards reactors	(ABER-19)	551 560 ✓ 552 561 ✓ 558 ✓ 562 ✓ 559 ✓ 557 ✓
c.	Piping from #E.b. to N-5 piperack East of reactors	(ABER-5)	563 ✓ 615 ✓ 566 ✓ 617 ✓