**COMMONWEALTH OF AUSTRALIA**

***Sections 226 and 708***

***Offshore Petroleum and Greenhouse Gas Storage Act 2006***

**APPLICATION FOR VARIATION OF A PIPELINE LICENCE**

**(PIPELINE LICENCE NT/PL5)**

I, **GRAEME ALBERT WATERS**, the National Offshore Petroleum Titles Administrator, on behalf of the Commonwealth–Northern Territory Offshore Petroleum Joint Authority hereby give notice pursuant to sections 226 and 708 of the *Offshore Petroleum and Greenhouse Gas Storage Act 2006* that an application has been received from

**Santos NA Barossa Pty Ltd**

**(ACN 109 974 932)**

**SK E&S Australia Pty Ltd**

**(ACN 158 702 071)**

**Santos Offshore Pty Ltd**

**(ACN 005 475 589)**

**JERA Barossa Pty Ltd**

**(ACN 654 004 387)**

for the variation of Pipeline Licence NT/PL5 in the offshore area of Northern Territory, as set out below.

Pursuant to subsection 226(3) of the Act, a person may make a written submission to the Titles Administrator about this application within 30 days from the date of this notice.

This notice takes effect on the day on which it appears in the   
*Australian Government Gazette.*

Made under the *Offshore Petroleum and Greenhouse Gas Storage Act 2006*

of the Commonwealth of Australia.

**GRAEME ALBERT WATERS**

TITLES ADMINISTRATOR

ON BEHALF OF THE COMMONWEALTH–NORTHERN TERRITORY

OFFSHORE PETROLEUM JOINT AUTHORITY

**APPLICATION FOR VARIATION OF**

**PIPELINE LICENCE NT/PL5**

The application seeks to effect the following amendments to the licence:

1. The ROUTE OF THE PIPELINE is varied by deleting all the current text and replacing with the following:

“The pipeline route is described in the table hereunder and displayed in the attached map (**Attachment 1**), commencing at the GEP Spool Tie-in to Riser Base Manifold (Face of Hub) and ending at the Face of the PLET Hub.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Point** | **KP** | **Easting (mE)** | **Northing (mN)** | **Bend Radius (m)** |
| GEP Spool Tie-in to RBM (Face of Hub) | — | 638 580.7 | 8 914 074.5 | — |
| Face of PLET Hub | 0.071 | 638 539.0 | 8 914 135.0 | — |
| TP1A | 3.865 | 634 811.8 | 8 913 427.7 | — |
| IP1 | — | 633 986.7 | 8 913 271.1 | 4750 |
| TP1B | 5.527 | 633 265.3 | 8 912 841.1 | — |
| TP2A | 8.046 | 631 101.8 | 8 911 551.4 | — |
| IP2 | — | 628 316.5 | 8 909 891.2 | 4500 |
| TP2B | 13.665 | 629 010.0 | 8 906 723.7 | — |
| TP3A | 25.27 | 631 491.7 | 8 895 387.7 | — |
| IP3 | — | 631 623.5 | 8 894 785.5 | 5000 |
| TP3B | 26.497 | 631 605.1 | 8 894 169.4 | — |
| TP4A | 27.291 | 631 581.5 | 8 893 375.4 | — |
| IP4 | — | 631 545.2 | 8 892 159.8 | 5000 |
| TP4B | 29.677 | 632 071.3 | 8 891 063.4 | — |
| TP5aA | 35.075 | 634 406.6 | 8 886 196.7 | — |
| IP5a | — | 634 471.7 | 8 886 061.0 | 5000 |
| TP5aB | 35.376 | 634 544.8 | 8 885 929.6 | — |
| TP5bA | 35.803 | 634 752.5 | 8 885 556.1 | — |
| IP5b | — | 634 817.5 | 8 885 439.1 | 5000 |
| TP5bB | 36.071 | 634 876.3 | 8 885 318.8 | — |
| TP6aA | 38.315 | 635 860.6 | 8 883 301.7 | — |
| IP6a | — | 636 119.4 | 8 882 771.4 | 5000 |
| TP6aB | 39.49 | 636 247.6 | 8 882 195.4 | — |
| TP6bA | 39.689 | 636 290.9 | 8 882 001.2 | — |
| IP6b | — | 636 303.7 | 8 881 943.7 | 5000 |
| TP6bB | 39.807 | 636 315.1 | 8 881 886.0 | — |
| TP6cA | 40.425 | 636 435.3 | 8 881 279.1 | — |
| IP6c | — | 636 444.7 | 8 881 231.8 | 5000 |
| TP6cB | 40.522 | 636 453.1 | 8 881 184.3 | — |
| TP7A | 66.125 | 640 941.8 | 8 855 977.7 | — |
| IP7 | — | 641 346.7 | 8 853 703.9 | 18000 |
| TP7B | 70.719 | 641 164.5 | 8 851 401.5 | — |
| TP8A | 81.984 | 640 275.5 | 8 840 171.1 | — |
| IP8 | — | 640 212.1 | 8 839 370.4 | 5000 |
| TP8B | 83.577 | 640 402.7 | 8 838 590.1 | — |
| TP9A | 83.966 | 640 495.0 | 8 838 212.1 | — |
| IP9 | — | 640 802.1 | 8 836 955.0 | 5000 |
| TP9B | 86.499 | 640 460.8 | 8 835 706.8 | — |
| TP10A | 88.944 | 639 815.8 | 8 833 348.4 | — |
| IP10 | — | 639 693.3 | 8 832 900.4 | 5000 |
| TP10B | 89.87 | 639 655.4 | 8 832 437.5 | — |
| TP11A | 93.148 | 639 387.9 | 8 829 170.3 | — |
| IP11 | — | 639 359.0 | 8 828 817.3 | 10000 |
| TP11B | 93.856 | 639 355.2 | 8 828 463.1 | — |
| TP12A | 107.876 | 639 202.7 | 8 814 444.6 | — |
| IP12 | — | 639 179.4 | 8 812 306.3 | 10000 |
| TP12B | 112.089 | 638 283.7 | 8 810 364.6 | — |
| TP13A | 119.351 | 635 241.8 | 8 803 770.4 | — |
| IP13 | — | 633 433.5 | 8 799 850.4 | 35000 |
| TP13B | 127.942 | 630 727.0 | 8 796 487.3 | — |
| TP14A | 142.062 | 621 873.8 | 8 785 486.6 | — |
| IP14 | — | 619 890.1 | 8 783 021.8 | 40000 |
| TP14B | 148.377 | 618 318.6 | 8 780 275.8 | — |
| TP15A | 166.547 | 609 293.6 | 8 764 505.5 | — |
| IP15 | — | 608 355.2 | 8 762 865.7 | 10000 |
| TP15B | 170.282 | 608 079.7 | 8 760 996.5 | — |
| TP16A | 183.778 | 606 112.0 | 8 747 644.7 | — |
| IP16 | — | 606 071.5 | 8 747 369.7 | 10000 |
| TP16B | 184.333 | 606 046.3 | 8 747 092.9 | — |
| TP17A | 194.156 | 605 156.2 | 8 737 311.0 | — |
| IP17 | — | 605 111.5 | 8 736 819.6 | 10000 |
| TP17B | 195.142 | 605 115.4 | 8 736 326.2 | — |
| TP18A | 202.272 | 605 171.4 | 8 729 196.6 | — |
| IP18 | — | 605 171.7 | 8 729 156.7 | 3200 |
| TP18B | 202.351 | 605 171.0 | 8 729 116.8 | — |
| TP19A | 204.905 | 605 127.4 | 8 726 563.5 | — |
| IP19 | — | 605 124.9 | 8 726 419.7 | 3200 |
| TP19B | 205.192 | 605 109.6 | 8 726 276.8 | — |
| TP20A | 205.541 | 605 072.4 | 8 725 929.9 | — |
| IP20 | — | 605 053.2 | 8 725 751.5 | 3200 |
| TP20B | 205.9 | 605 054.1 | 8 725 572.1 | — |
| TP21A | 207.348 | 605 061.5 | 8 724 123.7 | — |
| IP21 | — | 605 062.2 | 8 723 994.2 | 3200 |
| TP21B | 207.607 | 605 073.3 | 8 723 865.2 | — |
| TP22A | 208.544 | 605 153.8 | 8 722 931.4 | — |
| IP22 | — | 605 169.7 | 8 722 747.1 | 3200 |
| TP22B | 208.914 | 605 164.3 | 8 722 562.2 | — |
| TP23A | 211.125 | 605 099.1 | 8 720 352.1 | — |
| IP23 | — | 605 096.3 | 8 720 258.2 | 3200 |
| TP23B | 211.313 | 605 099.0 | 8 720 164.4 | — |
| TP24A | 211.83 | 605 114.1 | 8 719 647.4 | — |
| IP24 | — | 605 118.2 | 8 719 508.7 | 3200 |
| TP24B | 212.107 | 605 134.3 | 8 719 370.8 | — |
| TP25A | 212.267 | 605 152.7 | 8 719 212.2 | — |
| IP25 | — | 605 197.1 | 8 718 830.9 | 3200 |
| TP25B | 213.031 | 605 150.1 | 8 718 450.0 | — |
| TP26A | 213.263 | 605 121.6 | 8 718 219.5 | — |
| IP26 | — | 605 105.9 | 8 718 092.4 | 3200 |
| TP26B | 213.519 | 605 100.4 | 8 717 964.5 | — |
| TP27A | 213.945 | 605 082.1 | 8 717 538.6 | — |
| IP27 | — | 605 076.4 | 8 717 404.8 | 3200 |
| TP27B | 214.213 | 605 081.9 | 8 717 271.0 | — |
| TP28A | 215.256 | 605 124.4 | 8 716 229.0 | — |
| IP28 | — | 605 125.1 | 8 716 211.0 | 3200 |
| TP28B | 215.292 | 605 126.0 | 8 716 193.0 | — |
| TP29A | 216.359 | 605 181.6 | 8 715 127.1 | — |
| IP29 | — | 605 187.1 | 8 715 020.7 | 3200 |
| TP29B | 216.572 | 605 185.6 | 8 714 914.1 | — |
| TP30A | 217.255 | 605 175.6 | 8 714 231.4 | — |
| IP30 | — | 605 175.1 | 8 714 194.7 | 3200 |
| TP30B | 217.329 | 605 175.4 | 8 714 158.1 | — |
| TP31A | 220.19 | 605 199.3 | 8 711 296.7 | — |
| IP31 | — | 605 199.5 | 8 711 273.6 | 3200 |
| TP31B | 220.236 | 605 199.4 | 8 711 250.5 | — |
| TP32A | 223.149 | 605 181.7 | 8 708 338.1 | — |
| IP32 | — | 605 181.3 | 8 708 279.6 | 3200 |
| TP32B | 223.266 | 605 183.1 | 8 708 221.2 | — |
| TP33A | 225.183 | 605 241.5 | 8 706 305.1 | — |
| IP33 | — | 605 245.0 | 8 706 189.6 | 3200 |
| TP33B | 225.414 | 605 240.2 | 8 706 074.2 | — |
| TP34A | 226.22 | 605 206.6 | 8 705 268.6 | — |
| IP34 | — | 605 157.5 | 8 704 092.4 | 3200 |
| TP34B | 228.476 | 604 357.9 | 8 703 228.4 | — |
| TP35A | 229.41 | 603 723.3 | 8 702 542.8 | — |
| IP35 | — | 602 658.1 | 8 701 391.8 | 3200 |
| TP35B | 232.327 | 602 915.2 | 8 699 844.7 | — |
| TP36A | 232.685 | 602 973.9 | 8 699 491.3 | — |
| IP36 | — | 602 985.3 | 8 699 422.6 | 3200 |
| TP36B | 232.824 | 602 993.7 | 8 699 353.5 | — |
| TP37A | 234.613 | 603 209.9 | 8 697 577.2 | — |
| IP37 | — | 603 275.9 | 8 697 035.3 | 3200 |
| TP37B | 235.695 | 603 158.5 | 8 696 502.2 | — |
| TP38A | 236.127 | 603 065.6 | 8 696 080.3 | — |
| IP38 | — | 603 037.2 | 8 695 951.6 | 3200 |
| TP38B | 236.39 | 602 998.4 | 8 695 825.7 | — |
| TP39A | 240.77 | 601 707.8 | 8 691 640.2 | — |
| IP39 | — | 601 668.3 | 8 691 512.0 | 3200 |
| TP39B | 241.038 | 601 639.7 | 8 691 381.0 | — |
| TP40A | 243.005 | 601 219.4 | 8 689 459.6 | — |
| IP40 | — | 601 102.7 | 8 688 925.8 | 3200 |
| TP40B | 244.087 | 600 815.5 | 8 688 461.0 | — |
| TP41A | 245.942 | 599 840.7 | 8 686 883.5 | — |
| IP41 | — | 599 693.3 | 8 686 645.1 | 3200 |
| TP41B | 246.501 | 599 589.7 | 8 686 384.7 | — |
| TP42aA | 247.327 | 599 284.4 | 8 685 617.6 | — |
| IP42a | — | 599 081.9 | 8 685 109.0 | 3200 |
| TP42aB | 248.411 | 599 060.1 | 8 684 562.0 | — |
| TP43A | 249.396 | 599 020.7 | 8 683 577.9 | — |
| IP43 | — | 599 015.1 | 8 683 436.8 | 3200 |
| TP43B | 249.678 | 599 021.9 | 8 683 295.7 | — |
| TP44A | 250.838 | 599 077.9 | 8 682 137.2 | — |
| IP44 | — | 599 087.5 | 8 681 938.6 | 3200 |
| TP44B | 251.235 | 599 072.4 | 8 681 740.4 | — |
| TP45A | 252.577 | 598 970.8 | 8 680 402.2 | — |
| IP45 | — | 598 942.7 | 8 680 031.9 | 3200 |
| TP45B | 253.316 | 599 000.1 | 8 679 665.2 | — |
| TP46A | 253.433 | 599 018.1 | 8 679 549.9 | — |
| IP46 | — | 599 056.4 | 8 679 305.3 | 3200 |
| TP46B | 253.927 | 599 056.6 | 8 679 057.7 | — |
| TP47A | 255.42 | 599 057.7 | 8 677 564.6 | — |
| IP47 | — | 599 057.8 | 8 677 465.8 | 3200 |
| TP47B | 255.618 | 599 051.8 | 8 677 367.2 | — |
| TP48A | 258.333 | 598 886.3 | 8 674 657.0 | — |
| IP48 | — | 598 883.1 | 8 674 604.7 | 3200 |
| TP48B | 258.438 | 598 881.6 | 8 674 552.4 | — |
| TP49A | 261.208 | 598 803.3 | 8 671 783.7 | — |
| IP49 | — | 598 803.0 | 8 671 772.9 | 3200 |
| TP49B | 261.229 | 598 802.8 | 8 671 762.1 | — |
| End of Pipeline (Face of PLET Hub) | 262.219 | 598 781.5 | 8 670 772.5 | — |

Coordinates above are based on GDA94 / MGA Zone 52.

**SPECIFICATIONS**

1. The Schedule under Specifications, Basis of Design table is varied by updating the items in bold and italics:

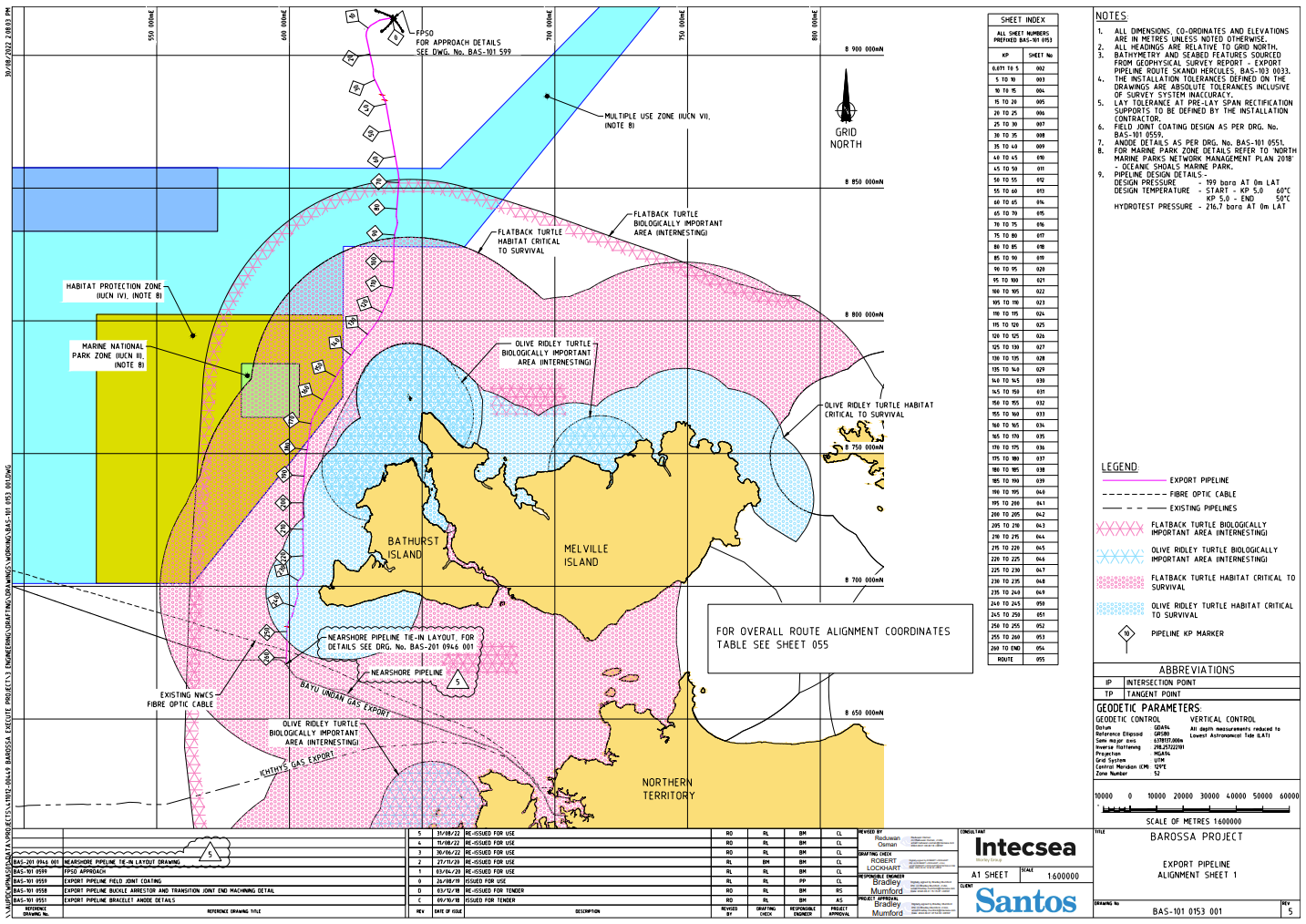
**Basis of Design**

The pipeline design is based on the following parameters:

|  |  |  |
| --- | --- | --- |
| **Item** | **Item Description** | **Details** |
| 1 | Outside diameter of pipe | 26 inches nominal |
| 2 | Wall thickness of pipe | 23.6 mm and 19.7 mm  (23.6 mm wall thickness pipe is utilised adjacent to the facility to meet Location Class requirements. 23.6 mm is also utilised in areas subject to spanning to optimise the span design. |
| 3 | Length | 262 km (approximate) |
| 4 | Design life | 25 years (approximate) |
| 5 | Pipeline Material | Steel |
| 6 | Pipeline Steel Grade | Grade 450 |
| ***7*** | ***Pipeline Specification*** | ***DNVGL SAWL 450 F D S (U in specified regions)*** |
| 8 | Minimum yield strength of pipe steel | 450 MPa |
| 9 | Maximum Allowable Incidental Pressure | 20.8 MPag |
| ***10*** | ***Design Capacity*** | ***730 MMscf/d*** |
| 11 | Maximum Design Temperature | 60⁰C |
| 12 | Minimum Design Temperature | 0⁰C |
| 13 | Characteristics of substance proposed to be conveyed | Dehydrated natural gas |
| 14 | General plans and descriptions of pump stations, tank stations or valve stations and their equipment | N/A |
| 15 | General plans and description of pigging facilities | The pipeline is designed to enable operational inspection pigging to be performed if required based on a risk-based inspection regime.  The riser base manifold is equipped with a full bore connection point, isolated by two 26-inch valves, to facilitate the installation and removal of a subsea pig launcher by diverless means.  The riser base manifold, spools, pipeline and tie-in to the existing Bayu-Undan pipeline are designed to facilitate through pigging to the onshore pig receipt facilities at DLNG. |
| 16 | Cathodic Protection | Aluminium-Zinc-Indium Anodes DNVGL-RP-F103  Typically spaced at 1 anode every 8 pipe joints. |
| 17 | Hydrate Management | Hydrate management in the gas export pipeline is not required as the pipeline is classified as a dry gas pipeline. |

1. The NT/PL5 Pipeline Route Map at Annexure A is deleted and replaced with the map at **Attachment 1**.

**Attachment 1**



A picture containing text, parallel, diagram, screenshot

Description automatically generated