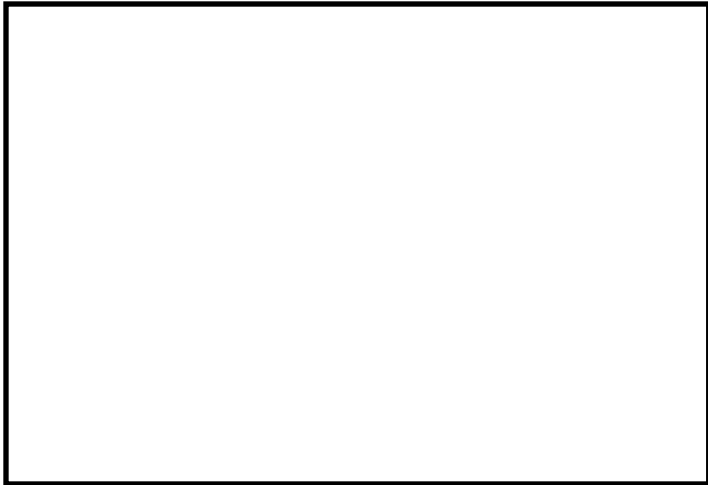


# Remote Islands: The Spruce Meets The Challenge

:LWK PRGHOV UDQJLQJ IURP WR WRQV RI OLTXLG 2[\JHQ 1LWURJHQ SHU GD\ WKH 6SUXFH UDQJH RI DLU VHSUDWLRQ SODQWV DUH VSHFLĀFDOO\ G to meet the technical, infrastructural and environmental challenges of geographically or logistically remote locations. Recognizing this, D PDMRU ,QG\XVWULDO JDV SURYLGHU LQ WKH 6RXWK 3DFLĀF UHFHQWO\ LQ a Cosmodyne Spruce 7 to supply their new, state of the art cylinder ĀOOLQJ IDFLOLW\ \$QRWKHU ODUJH FRPSDQ\ LQ WKH &DULEEHDQ KDV DOVR V EHQHĀWV RI WKH 6SUXFH IRU WKHLU LVODQG ORFDWLRQ DQG SXUFKDVHG D :DUP (QG 0RGXOH WR UHSODFH WKDW RI WKHLU ROGHU PRGHO \*)(' /,1 / 2x generator.



Spruce 13 with tank farm and cylinder lling stations

Packaged air separation plants were once viewed as a preliminary starting point for developing markets in uncharted or remote DUHDV VRPHZKDW XQVXVWDLQDEOH R ORQJ WHUP GXH WR WKHLU ORZ VSHF 7KH UHYROXWLRQDU\ HIĀFLHQF\ OHYHO changed this situation drastically, and, if market demand increases customers now have the option of adding modular capacity to the existing Spruce units rather than investing heavily in larger plants.

7KH HIĀFLHQF\ JDLQV ZHUH DFKLHYH FRQYHQWLRQDO VPDOO SODQW GHVL compressors with low power consumption; improved turbo-expander with advanced-technology bearing systems and the incorporation of a booster compressor that utilizes the available energy from the expander. In addition, the heat exchanger design incorporates a heat K\ HIĀFLHQW VXE FRROHU IRU OL W\HFKQRORJ\ KLJK SHUIRUPDQFH ĀQV K\H SURFHVV HIĀFLHQFLHV 7KHVH KH QHHGV RI WKHVH UHPRWH DQG RU HPHUJLQJ ORFDWLRQV\ VD\V %UXFH YDQ 'RQJHQ \*HQHUDO

7KHVH ĀDJVKLS `SDFNDJHG SODQW of a booster compressor that utilizes the available energy from the art PLC control. "The Cosmodyne design & development team has dedicated a huge amount of time & energy into transforming this modular concept into a product that comprehensively meets the needs of the customer. The product is a country with challenges that mirror those of island locations in many respects. The Spruce 13 commissioned there 3 years ago KDV EHHQ D JUHDW VXFFHVV\

Manager of Cosmodyne Packaged Plants. "Anywhere that is isolated logistically or that may have infrastructural or technical resource OLPLWDWLRQV ZLOO EHQHĀW )RU H[DPSOH 1LJHULD is a country with challenges that mirror those of island locations in many respects. The Spruce 13 commissioned there 3 years ago KDV EHHQ D JUHDW VXFFHVV\

Mobility, reliability, safety and durability have always been important for this sector of Cosmodyne's business, but the cost of energy and resources has now become a primary concern for all customers, as is the need for fast and inexpensive technical support. Innovative thinking and the advanced technology now available in the world of instrumentation and PLC control has been utilized to create a solution that represents a whole new platform of small ASU's. Spruce complete warm end being installed

