Certificate no.:
TAD00001N2

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Miscellaneous

with type designation(s)
PT3650 (Refer to Product Description seciton for all models covered under this TA)

issued to
NGB Corporation dba Stellar Technology
Amherst, NY, **USA**

is found to comply with
DNV-OS-E101 – Drilling facilities, Edition July 2021
DNV statutory interpretations DNV-SI-0166 – Verification for compliance with Norwegian shelf regulations, Edition July 2021

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Houston** on **2024-07-29**
This Certificate is valid until **2029-07-28**.
DNV local unit: **Houston, Approval CMC**

Approval Engineer: **Marco Romero**

for **DNV**

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

This device mounts in the wellbore stream and monitors the wellbore medium – specifically drilling mud pressure and temperature. This Type approval covers PT3650 series:

- PT3650-20000G-034, PT3650-20000G-134, PT3650-20000G-234, PT3650-20000G-334
- PT3650-20000G-035, PT3650-20000G-135, PT3650-20000G-235, PT3650-20000G-335
- PT3650-20000G-036, PT3650-20000G-136, PT3650-20000G-236, PT3650-20000G-336

Design codes/standards used as references

API 6A “Specification for Wellhead and Tree Equipment” 21st Edition

Application/Limitation

Nominal Bore Sizes	: Ø3 1/16” (Ø78 mm)
Working Pressure	: 15,000 psi (103.4 MPa),
Test Pressure	: 22,500 psi (155.1 MPa),
Rated Working Depth (Sea Water)	: 12,500 ft
Product Specification Level	: PSL 3
Service	: Internal H_2S
Min. Operating Temperature	: -20°F (P) – API 6A rating
Max. Operating Temperature	: 250°F (U) – API 6A rating (See Comments/Conditions)
Flange Sizes	: 15M
BX RingNumbers	: 154
Tube Lengths	: Flush up to 13.63 inch long
Designation of Systems	: Well Monitoring Systems
Type of Equipment	: Measuring device/sensor

Type Approval documentation

Marking of product

For traceability, the following markings shall be carried out on each product:

- Serial No.
- As stated in API 6A
- According to the manufacturer's specification(s)

Other comments/conditions

1. Procedures related to testing, welding, NDT, etc. are to be reviewed/approved by DNV's local surveyor.
2. Hydrostatic testing confirming to DNV-OS-E101 @ 1.5 X working pressure should be performed/reviewed by DNV's local surveyor.
3. Fabrication records are to be maintained in accordance with DNV-OS-E101 Ch.3 Sec. 3.
4. When DNV Product Certification is required, each product is to be surveyed during fabrication in accordance with the requirements for Category I equipment as defined in DNV's Offshore Standard DNV-OS-E101.
5. Product has been designed and qualified for a maximum operating temperature of 275°F. For the purpose of classifying the product's maximum operating temperature per API 6A, it is listed as 250°F

Periodical assessment

For retention of the Type Approval, DNV's surveyor shall perform periodical assessment after 2 years and after 3.5 years in accordance with DNV's Class Programme DNV-CP-0338, Section 4.