

Section 1: The Proposal (Management Summary)

1.1 Management Summary

This Group Investment Proposal requests approval for funding of US\$461m Shell Share (\$220m Equity & \$240.95m Carry) to progress the execution of the Kolo Creek Deep field development Project. The approval is being sought based on conclusion of the commercial round of the contracting process with the eventual contractor already identified.

The Project will develop 1.5Tscf of gas from Kolo Creek Deep to the Soku Gas Plant for processing and sales to NLNG Trains 1 to 6. The project scope includes the drilling/completion of four (4) NAG wells into the F2 reservoir, an additional three (3) NAG wells into the F1 reservoir as well as 1F1 appraisal well. A 20-inch x 40 km pipeline would be installed for evacuation of the production to the Soku gas plant. Peak production is planned at 400 MMscf/d and 40,000 bbl/day of liquid. Production from the F1 and F2 reservoirs will start in Apr 2015.

The project is in the Alternative Funding (AF) tranche in BP11. Facilities cost estimates have been discussed and agreed with NAPIMS project team under Modified Carry Arrangement (MCA) and cost of associated wells is expected to be completed in the next few days.

Considering the strict fiscal and governance regimes surrounding MCA, further review of the project costs and schedule were carried out. The revised costs (post-BP11) are as outlined in Table 1 below.

Table 1: Yearly estimated expenditure (FUS\$ mln)

| Description | COST PHASING | | | | | | | |
|--|-----------------------------|-------------|--------------|--------------|-------------|-------------|------|--------------|
| | Previously approved Pre-FID | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | Total |
| Facilities Capex 100% JV (FUS\$mln) - less PMT& SCD | 6.4 | 50.0 | 177.7 | 85.2 | 55.5 | 13.6 | | 388.4 |
| Wells Capex 100% JV (FUS\$mln) | | 0.0 | 114.1 | 160.9 | 0.0 | 0.0 | | 275.1 |
| Total Capex 100% JV (FUS\$mln) - less PMT&SCD | 6.4 | 50.0 | 291.8 | 246.1 | 55.5 | 13.6 | | 663.5 |
| PMT 100% JV (FUS\$mln) | 2.6 | 12.2 | 16.0 | 16.6 | 14.8 | 5.5 | | 67.8 |
| Opex 100% JV (FUS\$mln) | | 2.0 | 4.4 | 2.5 | 1.8 | 0.5 | | 11.2 |
| Total 100% JV (FUS\$ mln) | 9.0 | 64.2 | 312.3 | 265.2 | 72.1 | 19.6 | | 742.4 |
| Shell Share Equity (30%) | 2.7 | 19.2 | 93.7 | 79.6 | 21.6 | 5.9 | | 222.7 |
| MCA Carry Shell Share (36.67%) | | 18.3 | 107.0 | 90.3 | 20.4 | 5.0 | | 240.9 |
| Total Shell Share (FUS\$ mln) | 2.7 | 37.6 | 200.7 | 169.8 | 42.0 | 10.9 | | 463.7 |
| This proposal Total Shell Share excluding Pre-FID (FUS\$ mln) | | | | | | | | 461.0 |

1.2 Project Background

In 2009 the Gbaran-Ubie Phase 2 project was re-framed and a number of alternative concepts evaluated for the evacuation of the Kolo Creek Deep gas. Taking into consideration the declining Soku production, the resource base in the Soku and Gbaran Nodes, the need to minimize capital investment and optimize SPDC's infrastructure usage, the approved concept is to process the Kolo Creek Deep gas at the existing

Soku gas plant rather than at a new, third gas treatment train at the Gbaran CPF. This option has been presented and agreed by the DRB. The detailed scope and full life cycle costing for the full project work scopes can be found in Appendix 1.

1.3 Previous proposals

In April 2010, a pre-FID investment proposal of \$ 2.7mln (Shell Share) was approved for the Front End Engineering Design, Survey, Land acquisition, and for conducting Environmental Impact Assessment studies for the Kolo Creek Deep to Soku Project.

Section 2: Value proposition and strategic and financial context

Project proposal remains consistent with Shell's strategy of sharper delivery and profitable upstream growth. The proposal also aligns with SPDC JV contractual commitment to supply gas to NLNG.

2.1 Justification for Expenditure

The proposed expenditures are required for the drilling/completion of four (4) gas wells into the F2 reservoir, an additional three (3) NAG wells and one (1) appraisal well into the F1 reservoir as well as the infrastructure for evacuation of the production to the Soku gas plant. These activities must be pursued to enable the start of drilling of the Kolo Creek F2 wells in 2013 and therefore prevent the risk of shortfall of gas supplies to the Soku gas plant and the risk of not being able to maintain SPDC JV gas contractual commitments to NLNG Trains 1 to 6 (Figures 1).

2.2 Production and Reserves

The Kolo Creek Deep development to Soku will develop 1.5 Tscf of gas and 52 MMSTB of condensate from the Kolo Creek F1 and the F2 reservoirs to sustain gas supplies to the Soku gas plant and meet SPDC JV gas supply commitments to NLNG Trains 1 to 6.

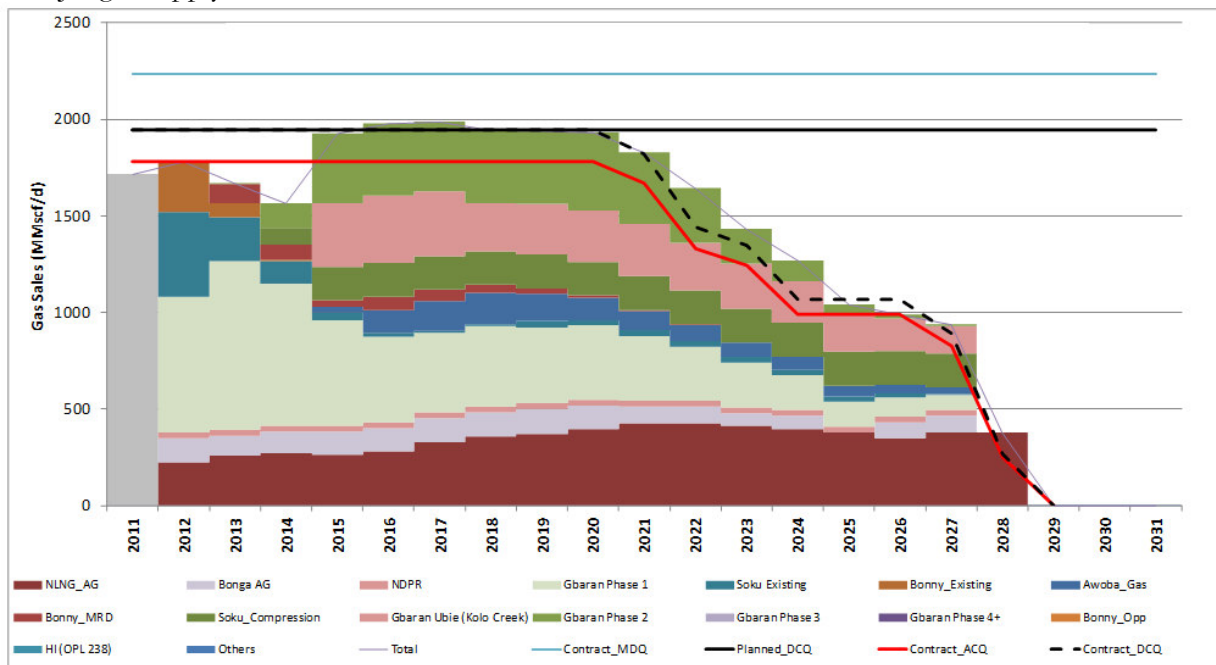


Figure 1: NLNG Trains 1 to 6 supply plot with the optimized 400 MMscf/d Kolo Creek to Soku option

2.3 Summary Economics

The FID economics evaluation was carried out on a forward-looking basis using production forecast and contractors cost provided by the project team. Sensitivity analysis was carried out to determine the values of the project at different production volumes and high CAPEX. Additional risk and uncertainty analysis was also carried out and shows a 100% chance of the project returning a positive NPV. The evaluation assumed funding under the 2008 Modified Carry Arrangement (MCA) terms.

A sensitivity analysis of the current view of the PIB is also included. Results show that the project is still robust (passes the VIR hurdle) even without inclusion of production allowances

The details of the results are in Table 2 and the Tornado Plot and Profitability Plot are shown in Figures 2 & 3 below.

Table 2a: Summary economics grid for Kolo Creek deep to Soku

| Cash flow forward from: 1/1/2012 | NPV (\$/S \$ mln) | | VIR | RTEP | VTE | UTC (RT \$/boe) | | Payout-Time (RT) | Maximum Exposure (RT- AT) |
|---|-------------------|-------|------|------|------|-----------------|------|------------------|---------------------------|
| Cash flow forward from: 1/1/2012 | 0% | 7% | 7% | % | | 0% | 7% | (yyyy) | \$mln (yyyy) |
| Base Case | | | | | | | | | |
| SV (\$50/bbl & \$1.31/mmbtu RT'12) | 505.8 | 234.7 | 0.59 | | | | | | |
| RV (\$70/bbl & \$1.74/mmbtu RT'12) | 692.2 | 336.4 | 0.84 | 31 | 2.88 | 2.70 | 4.05 | 2015 | 114.5(2013) |
| HV (\$90/bbl & \$2.10/mmbtu RT'12) | 851.4 | 423.5 | 1.06 | | | | | | |
| Oil BEP (RT \$/bbl) | | | | | | | | | |
| Sensitivities (using RV) | | | | | | | | | |
| High CAPEX (P90) | | 327.9 | 0.74 | | | | | | |
| High Volumes | | 421.4 | 1.05 | | | | | | |
| Low Volumes | | 207.1 | 0.52 | | | | | | |
| 1.5% BVA | | 326.6 | 0.80 | | | | | | |
| 1 year Schedule Delay | | 309.6 | 0.77 | | | | | | |
| Full Life Cycle | | 335.2 | 0.83 | | | | | | |
| PIB | | 111.4 | 0.28 | | | | | | |
| JV Funding | 339.7 | 1.79 | | | | | | | |
| Additional Uncertainty and Risk Analysis - using RV | | | | | | | | | |
| NPV(P10) | | 494.1 | 1.26 | | | | | | |
| NPV(P90) | | 246.3 | 0.63 | | | | | | |
| EMV at RV | | 377.7 | | | | | | | |
| Probability of NPV > 0 at RV | | 100% | | | | | | | |
| Dispersion = EMV / (NPVP10-NPVP90) at RV | | 1.3 | | | | | | | |

Key project Parameters (Shell share)

| Parameter | Unit | BP11 Provision | Low | Mid | High | Comments |
|-------------------------------|----------|----------------|-------|--------|--------|--------------------------|
| Capex (MOD) | US\$ mln | 209.7 | 416.5 | 457.6 | 502.2 | JV +MCA |
| Opex (MOD) Project | US\$ mln | NA | NA | 40.37 | NA | ABC + SCD |
| Production Volume | mln boe | 87.31 | 42.10 | 96.80 | 121.91 | improved deferrals |
| Start Up Date | mm/yy | Oct-15 | | Apr-15 | | mitigate NLNG gas supply |
| Production in first 12 months | mln boe | | | 8.8 | | |

Figure 2: Tornado Chart

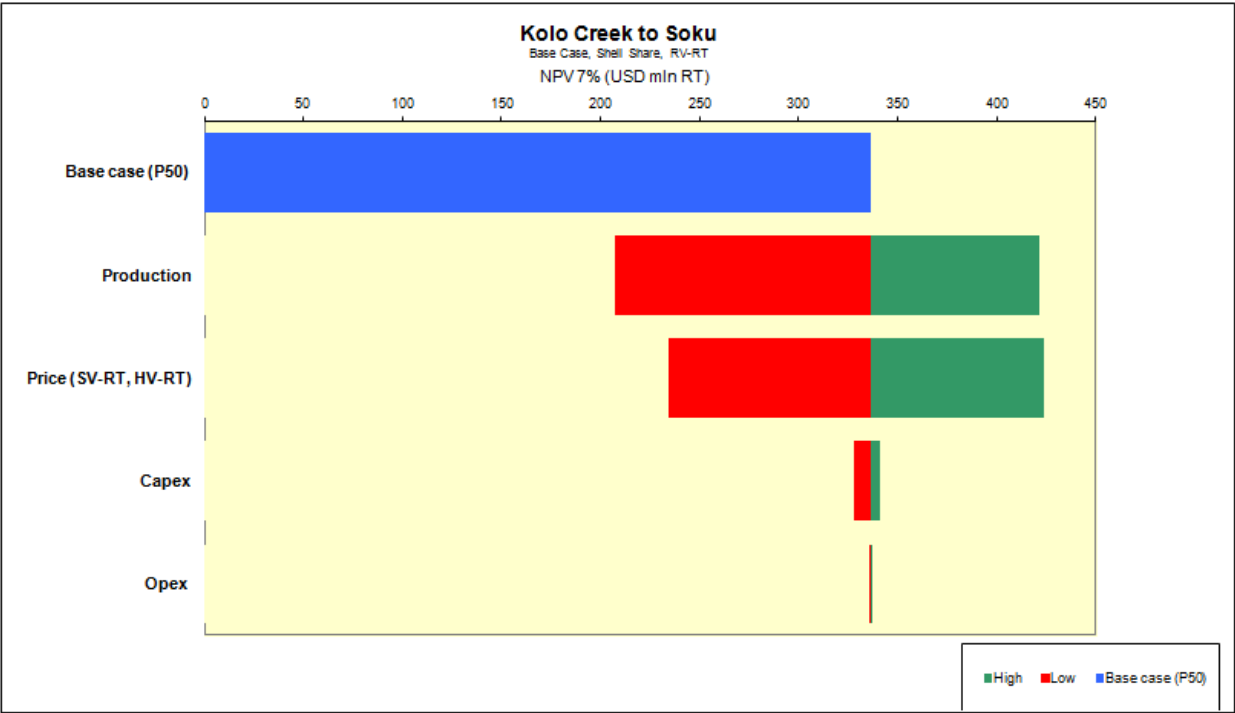
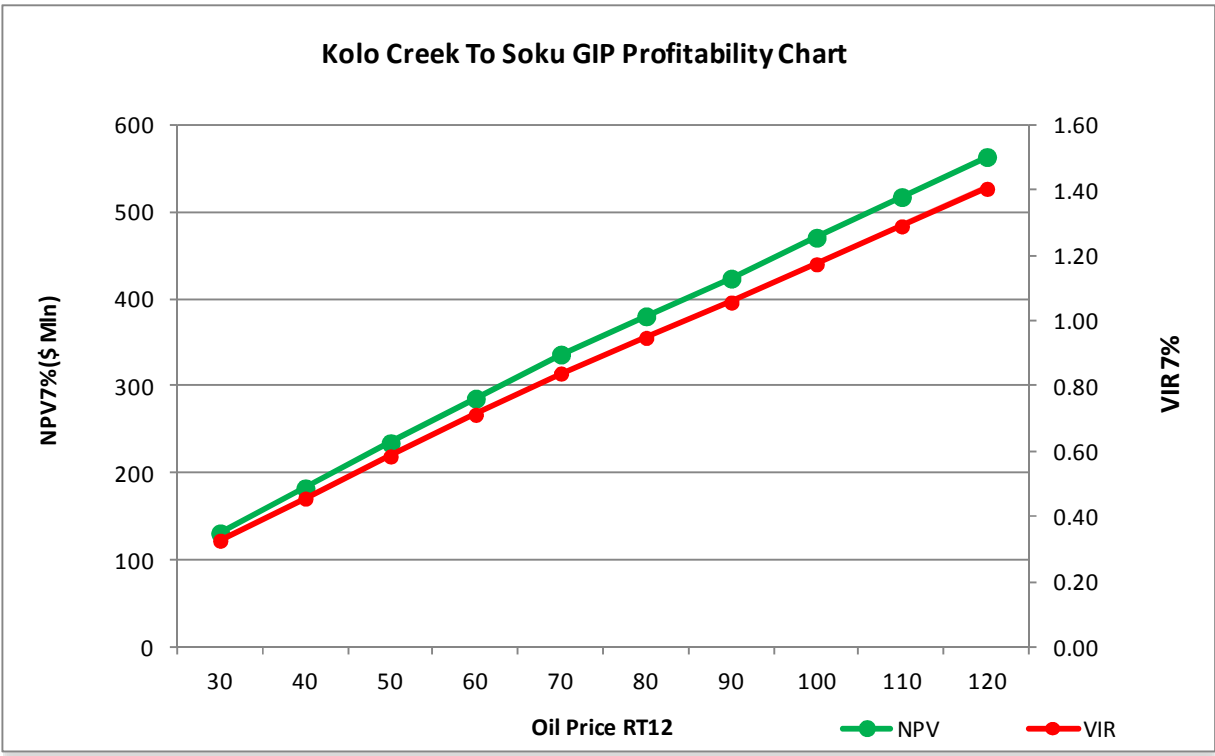


Figure 3: Project Profitability Plot



Economics Assumptions

- Oil price at the three PSVs: SV, RV and HV (\$50/bbl, \$70/bbl and \$90/bbl respectively) with applicable offsets.
- NLNG Gas PSV
- Gas taxed under CITA with Associated Gas Framework Agreement (AGFA) incentive.
- Education Tax of 2% assessable profit
- NDDC levy of 3% total expenditure
- GHV of 1150btu/scf for Export gas
- Flare Penalty of \$3.5/Mscf was applied and is not tax deductible
- Abandonment estimated as 10% of total RT CAPEX
- No facility upgrade/replacement required for the project until economic limit.
- SCD Cost was provided by project team
- ABC opex provided by project team
- Condensate taxed under PPT (PPT tax rate of 85%)

MCA Assumptions

- Profit gas ceiling of 8% IRR on carried costs
- All costs on the MCA would be recovered through cost gas.
- Current agreement for recovery of carry costs is maintained
- \$70.22/bbl – Condensate at PSV RV-RT in 2012
- OPEX and PMT not carried under current MCA arrangement.

PIB Assumptions

- May 2012 version (Technical Committee draft)
- Production Royalty based on Company production rates
SPDC – Oil & Condensate 22% - Gas 12.5%
- Price Royalty – 4% for Oil/Condensate RV, 0% for Gas RV
- Nigerian Hydrocarbon Tax 50%; Corporate Income Tax 30%
- Community Fund (PHCF) treated as Tax Credit
- No Production Allowances granted for this development.

Section 3: Risks, Opportunities and alternatives

Risks and Mitigation Plans

The project employs a comprehensive Risk and Opportunity Management system, with Risks affecting the Cost and schedule analyzed and worked into the project cost and schedule accordingly. The top project risks and mitigation plans are described below

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Funding risks (C, E)

The proposal is for this project to be financed via Alternative Funding (AF) as it is currently not carried on the JV base budget. However delays to conclusion of funding discussions with JV partners could cost additional money and time as project bid validity is due to expire in August 2012

Mitigation: A contingency of 3mths delay to FID and contract award have been included in Schedule Risk analysis (cost within this GIP). Efforts have been intensified at all levels to ensure that the funding discussions are concluded timely

Delay in obtaining NCDMB waiver for Line pipe procurement (E, C, P)

The Nigerian Content Directive (NCD) Act requires that a waiver be obtained for out of country procurement of line pipes less than 24". SPDC has an existing Corporate Line pipe procurement waiver based on the Corporate Line pipe procurement call off contract. However based on NAPIMS directive, line pipe procurement strategy for the project is for EPC contractor to procure. There is therefore the need for the project to obtain the required waiver from NCDMB

Mitigation: Time lost to Contractor ordering of line pipes has been included in the project schedule, to further mitigate the risk; the plan is for Contractor to place the order for the line pipes as soon as EPC contract is awarded. Project is also investigating the possibility of extending SPDC's waiver to cover 3rd party procurement.

Security Risks (P)

The project is located in the Niger Delta, where security issues are particularly significant. This is highlighted by cases of hostage taking, armed attacks and sabotage of, especially, pipeline systems. Additionally, deteriorating Security situation in the Northern part of the Country, in the form of targeted bombing, could migrate down south and requires that this risk be carefully monitored

Mitigation: The amnesty programme of the federal government has helped to calm the security situation although uncertainty still pervades. Detailed project security plan for the project dovetails into relevant operations security plans and would continue to be improved as necessary

Community related Risks (P)

The project straddles 2 states and over 14 main communities, hence the community stakeholder base is large and diverse. Legacy issues from the EGGs2 project have also been identified as the project pipeline largely follows the same RoW. This may lead to community agitations, work stoppages and reputational damage.

Mitigation: Community interfaces will be managed through the Global Memorandum of Understanding (GMOU) mechanism (as detailed in the project SP Plan); this will be deployed in alignment with the project schedule. The Soku end of the project has an existing steady state GMOU and the KoloCreek GMOU is being negotiated. The project will leverage on these. Also an allowance has been made in the project budget for funding of social investment programmes

Project works in Live plant (T)

Project involves work at Soku gas plant and Kolocreek Oil/ NAG manifold. Therefore risks associated with working in and around hydrocarbon and Concurrent operations (COP) work would require careful and focused consideration

Mitigation: COP Requirements included in technical ITT. Also Concurrent operations management plan to be included in the project construction HSE case e.g. tie-in/ interface meetings, JHA and PTW etc.

Changes to drilling sequence for F1 wells (T, P)

Based on the directive from DPR, there is a requirement to drill an appraisal well prior to drilling the F1 wells. However, during BP11, the F1 wells were accelerated to fill gaps in the drilling sequence, in essence, the F2 and F1 wells will now be drilled back-to-back

Mitigation: The appraisal well has now been sequenced for drilling before the F2 wells. The results will be available and presented to DPR before the F1 wells are spudded, following completion of the F2 wells

Alternatives

The following Scenarios were evaluated for the KoloCreek Deep to Soku project

Taking into consideration, the declining Soku production, the resource base in the Soku and Gbaran Nodes, the need to minimize capital investment and optimize SPDC's infrastructure usage, the approved concept is to process the Kolo Creek Deep gas at the existing Soku gas plant rather than at a new, third gas treatment train at the Gbaran CPF. This revised concept was approved at the reframing workshop of Mar 2009.

Production rates of 500, 400 and 300 MMscf/d from Kolo Creek to Soku were considered. The 500 MMscf/d Kolo Creek to Soku option would require a finger type slug catcher and additional condensate stabilization capacity at the Soku CPF, because it is competing with the Awoba NAG project for liquid handling space. Alternatives include optimizing the Kolo Creek Deep gas rates to fit within the liquid handling constraints at Soku, or prioritizing the Kolo Creek Deep over (lower NPV) Awoba.

The 300 MMscf/d Kolo Creek Deep to Soku option results in minimum CAPEX, but will not fulfill SPDC supply obligations to the NLNG Trains 1 to 6 in the short term. Short/Medium term supply obligations can be met with the 400 MMscf/d Kolo Creek to Soku.

Section 4: Carbon Management

GHG Emissions for the Kolo Creek Deep Well Development Project over the 10 year forecast period are estimated at 35,510 tonnes of CO₂eq, when average production is about 24,000 stbpd (net condensate) and 400 MMSCFD. Fuel gas combustion by the gas engines for electricity generation accounts for 90.8 % of the total emissions, and is the major source of emission in the project. Fugitive emissions from valves and flanges account for 8.95 % of the total GHG emissions. Venting at Kolo Creek RFM due to routine maintenance depressuring accounts less than 0.3 % of the total GHG emissions, while Flaring emissions at Soku LGSP due to pig trap depressuring is insignificant.

Over the forecast period, the total emissions and energy intensities are 0.8 kg CO₂ equiv. and 0.013 GJ per Tonne of hydrocarbon produced respectively. Also the SCEI and UEEI are 43 and 0.52 respectively. These are generally low compared to peer facilities in the group. Regarding GHG emissions and energy consumption therefore, this project is considered ALARP.

In addition there are other design considerations or elements, which either have direct impact on emissions or are implemented in order to enable accurate measurement and analysis of energy use and GHG emissions. These include;

1. Use of HIPPS instead of relief valve as ultimate safeguard for overpressure protection of downstream facility to avoid relief vent load at Kolo Creek Depressuring philosophy to depressurise the Kolo Creek flowlines at Soku where it will be flared
2. Installation of pressure protection on the slug catcher at Soku to reduce demand on installed relief valve. This reduces relief events and consequently reduces flaring emissions at the Soku.
3. Provide Vent and Flare Gas Meter respectively to measure and Monitor venting/flaring incidents, frequency and flow rates
4. Provide individual fuel gas meters for each gas engine power generator to measure the fuel gas consumed by individual gas engines.
5. Provide individual electricity meters for each gas engine power generator to measure the power produced by individual gas engines.

Section 5: Corporate structure, and governance

The existing corporate structure and governance arrangements of SPDC-JV with SPDC as operator still subsist for this investment.

Section 6: Functional Support and consistency with Group and Business Standards

This proposal complies with Shell Group Business Principles, policies and standards. Functional support for this proposal is provided by Finance, Social Performance, Supply Chain Management, HSE, Operations, Legal, Security, Treasury and Tax functions.

Section 7: Project management, monitoring and review

This is a “P&T executed” project delivered by the UIG/T/PD Major Projects team. The ORP compliant governance structure is in place, including a project specific DRB, DE and BOM. A Project Control and Assurance Plan (PCAP) has been approved to define the applicable controls for the EXECUTE phase.

Section 8: Budget Provision

It is proposed that at FID, the project budget requirement will be from the alternative funding tranche. In line with current AF agreements, it is expected that project FID OPEX and project management costs will continue to be funded via the regular JV budgetary process.

Section 9: Group Financial Reporting Impact

The estimated yearly expenditure phasing for the full project work scopes is indicated in Table 1.

| US\$ mln | Prior Years | 2012 | 2013 | 2014 | 2015 | 2016 | Post 2016 |
|---------------------------|-------------|--------|--------|--------|--------|--------|-----------|
| Total Commitment | +0.0 | +40.3 | +200.7 | +169.8 | +42.0 | +10.9 | +0.0 |
| SCD OPEX | +0.0 | +0.6 | +1.3 | +0.8 | +0.5 | +0.1 | +0.0 |
| Pre-FID | +0.0 | +2.7 | +0.0 | +0.0 | +0.0 | +0.0 | +0.0 |
| Cash Flow | | | | | | | |
| Capital expenditure | +0.0 | +37.0 | +199.4 | +169.1 | +41.5 | +10.7 | +0.0 |
| Cash Flow from Operations | +0.0 | +4.5 | +72.3 | +112.2 | +122.5 | +152.9 | +927.7 |
| Cash Surplus/(Deficit)* | +0.0 | -32.4 | -127.1 | -56.8 | +81.0 | +142.2 | +927.7 |
| Profit and Loss | | | | | | | |
| NIBIAT +/- | +0.0 | -0.1 | +8.8 | +7.8 | +73.3 | +106.9 | +756.3 |
| Balance Sheet | | | | | | | |
| Average Capital Employed | +0.0 | +16.2 | +100.3 | +200.5 | +229.0 | +207.5 | +49.7 |
| Impact on ROACE (EP) | +0.0 | -0.04% | 0.19% | 0.09% | 2.01% | 3.31% | n/a |

Section 10: Disclosure

Materials disclosures, if any, will be done in line with the Group Disclosure Guidelines.

Section 11: Financing

The pre-FID portion of this investment has been financed with JV funding. It is expected that financing for the main project scopes shall be through the MCA funding mechanism. Formal sign-off is being finalized with JV partners. However, it is planned to make commitments upon NAPIMS approval of MCA figures.

Section 12: Taxation

There are no unusual taxation features.

Section 13: Key Parameters

Approval is sought for additional US\$461mln (Shell Share), to progress Engineering, Procurement and Construction works, drilling/completion of 7 NAG and 1 appraisal wells and the infrastructure for evacuation of production to the Soku gas plant from the Kolo Creek Deep field.

Section 14: Signatures

This Proposal is submitted to the Board of Royal Dutch Shell plc for shareholder approval.

Supported by:

For Submission:

.....
Simon Henry
Chief Financial Officer
Date: / /

.....
Peter Voser
Chief Executive Officer
Date: / /

Supported

.....
Andrew Brown
ECAB
Date: / /

.....
Mathias Bischel
ECMBi
Date: ... / ... / ...

Appendix 1: Details and Cost Estimate (MOD 100% JV) for the Kolo Creek Deep Field Development to Soku

The scope of the Kolo Creek Deep field development consists of the following:

1. Drilling and completing of four NAG wells to develop 0.92Tscf from the Kolo Creek Deep F2 reservoir.
2. Drilling of one appraisal well into the F1 reservoir
3. Drilling and completing of three NAG wells to develop 0.54Tscf from the Kolo Creek Deep F1 reservoir.
4. Construct a remote field manifold at the Kolo Creek Oil and NAG Manifold Location
5. Install (on-plot) flowlines from the wells to the Kolo Creek NAG manifold
6. Install a 20-inch diameter, 40 km long carbon steel pipeline from the Kolo Creek Manifold to the Soku gas plant designed to evacuate 400 MMscf/d of gas and 40,000 bbl/d of condensate from Kolo Creek NAG Manifold.
7. Installation of a slug catcher at the Soku gas plant and connection to existing production, control and safeguarding systems.

Details of the cost estimate (MOD 100% JV) for the full scope of the Kolo Creek Deep Field Development to Soku Project can be found below.

| 50/50 MOD Cost Estimate (US\$ mln) | |
|---|--------------|
| Description | |
| Location Preparation | 35.8 |
| Drilling and Completion | 239.3 |
| Pipeline and Hook-up | 104.2 |
| NAG Facilities* (inclusive of PMT, VAT & Owners Cost) | 352.0 |
| Total CAPEX (100% JV) | 731.2 |
| | |
| SCD | 11.2 |
| Total OPEX (100% JV) | 11.2 |
| | |
| Total (100% JV) | 742.4 |
| Total (Shell Share) | 463.7 |