| **S/n** | **Recommendation** | **Schedule**  **Reduction** | **Cost Savings** | **Action Party** | **Target** | **Sponsor’s Comments/Steer & Other remarks** | **Project Champion Comments on the Recommendations of Published Kaizen Report on Location LEAN Project** |
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|  | **PREMOB** | (days) | (f$) |  |  | For all premob requests, CH to quality check contractor’s proposal to avoid rework. | No comments |
| 1 | Improve time taken to secure FTO (from 42 days to 30 days) | 12 | 0 | SD | Immediate | Ok. | FTO is not a Precise Science and securing of FTO varies from Community to Community. Records shows that some sites take longer time to secure FTO. TPEV will engage with SCD Team on what they will do differently to reduce timing. |
| 2 | Improve time taken to review project Security plan (from 21days to 3days ) | 18 | 0 | Security Dept | Immediate | Ok. (Gabriel to draft SOP based on VSM and review with Chuks). Target:31/07/12 | Will follow-up Process Owner (Security) to draft SOP and demonstrate how the time reduction will be achieved without compromising company policies and regulations |
| 3 | Improve time to review project HSE plan  (29 days to 3 days) | 26 | 0 | HSE & Civil Engineering | Immediate | Ok. (Gabriel to draft SOP based on VSM and review with Chuks). Target:31/07/12 | Will follow-up Process Owner (Corporate HSE) to draft SOP and demonstrate how the time reduction will be achieved without compromising company policies and regulations |
| 4 | Carry out equipment inspection within 3days of premob request and issue report & sticker within next 2 days. | 22 | 0 | Logistics team | Immediate | Ok. (Gabriel to draft SOP based on VSM and review with Chuks). Target:31/07/12 | Will follow-up Process Owner (Logistics) to draft SOP and demonstrate how the time reduction will be achieved without compromising company policies and regulations |
| 5 | Improve time to secure wells for existing locations | 14 | 0 | Well Services | Immediate | Depends on Production requirements. Civil Engineering to engage Well Services team. | No Comments |
| 6 | Improve time to remove flowlines in  existing locations | 14 | 0 | Asset Engineering | Immediate | Depends on Production requirement. Civil Eng to engage Asset Engineering team | No Comments |
|  | **HAULAGE** |  |  |  |  |  |  |
| 1 | For asphalt works, issue PO to Contractors with asphalt within 60km of site. Deviation subject to TPE approval. | 6 | 0 | Civil Engineering | Immediate | Ok. | Cannot Practically be implemented. Work order issued for location works covered entire work scope. Injection of another contractor to carry out asphalting which is one component of the overall workitems will creates an insurmountable interface problems and result in lack of ownership of overall location delivery on completion of the Works |
| 2 | Relocate a set of Dura Base Materials to  Gbaran field and retain a set in Kidney Island for quick intervention and reduction of logistics cost. | 5 | 60,000 | Civil Eng &  Prod Asset team | 31/08/12 | Ok.  (10m x30m space req) | No comments |
| 3 | Change pricing unit for haulage of Dura base mat from “per pc” to per “standard truck”. (save f$3000 per trip) | 0 | 120,000 | Civil Engineering & SCM | In repl contract | Ok subject to opportunity in repl contract. | Recommendation overtaken by events. Commercial bids for replacement contract already received and evaluated. Award recommendation approved by MTB and forwarded to NAPIMS for consideration and approval |
| 4 | Use Logistics contracts for transportation of Dura base materials. | 0 | 250,000 | Civil Engineering | immediate | Ok. Proper upfront planning and follow-up necessary for success. | No comments |
| 5 | Reduce long haulage distance for sand and granite | TBA | TBA | Civil Eng | TBA | Explore option for stockpiling of sand for location prep in campaign mode. | Further studies required for Sand Dump ONLY. But emphasis should be on siting of a Central Dumpsite in a location owned by SPDC like Gbaran-CPF. Use of Company Owned Sand Dump sites at Mbiama and Yenegoa discontinued on account of high prevalent cases of un-authorized sale of Sand by Security Guards and Blockage of Sand Dumps by Communities resulting in downtime claims by Location Preparation Contractors. |

| **S/n** | **Recommendation** | **Schedule**  **Reduction** | **Cost Savings** | **Action Party** | **Target** | **Sponsor’s Comments/Steer & Other remarks** | **Project Champion Comments on Recommendations of LEAN Kaizen** |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **CONSTRUCTION** | (days) | (f$) |  |  |  |  |
| 1 | Enforce Clustering as the default option in new field development. Drill from existing slots in brown fields. Deviation shall be subject to VP-Technical’s approval. | 245 | 4,000,000 | Development | Immediate | Ok. Lack of well as-built drawings showing trajectory of some existing wells may be an issue. | Continue working with Development in future Location Selections for New Wells. Exercise was extensively carried out in High Pressure High Temperature Surface Location Selection Exercise with Exploration. |
| 2 | Reduce the well slot spacing in high pressure wells from 6m to 5m. For a 6 slot cluster, save 5m x 20m of piled cellar slab. | 15 | 142,000 | Civil Engineering | Immediate | Ok as notional. Each cluster will need specific design. | Ok. Will be implemented in designs of future multi-cellar locations for Gas Wells with FEED Team |
|  | Use Dura Base mat in campaign mode and when location is not planned to be revisited in the near future e.g. work over location. Deviation subject to TPE approval. | 34 | 342,000 | Civil Engineering | Immediate | Ok. Explore necessity to procure additional sets of Dura base mats. | Kicked off use of Dura Base for the Apara Well Decommissioning Projects at Apara Locations 1,4,7 & 9 using Land Hoist. |
| 4 | Eliminate concrete generator slab and chemical slabs and replace with asphalt surface. | 30 | 78,000 | Civil Engineering | Immediate | Freedom/Yinka to review Tech and HSE reqts for all concrete slabs, sub-base and pavements except cellar slab. Target:03/08/12 | Does not see any Solid Justification for recommendation. Recommendation Should Rather be for a re-design of Location Layout for Current Rigs on Hire for purposes of determining actual area required as Generator Slab and other Location Components. Location design now in use was developed in 2008 and Rigs then in use are off-hire and Compact /reliable Generators that can result in reduced spatial dimensions were possibly not in market in 2008 when current design was produced |
| 5 | Eliminate waste pit. Change current waste management approach to pitless model. | 36 | 88,000 | Wells | Immediate | Ok subject to outcome of pilot at Koroama SPUR & EPU 1 | Ok. Accepted. Pilot being planned |
| 6 | Eliminate crushed stone base, asphalt surface and all concrete slabs (except cellar slab) and replace with lean concrete 125mm with BRC. |  | 0 | Civil Engineering |  | Comments same as item 4 above. | Does not see any Soilid justification. Current specifications were determined from proper studies carried in 1989/99 and improvements resulting current specs is as a result of onsite studies. Note has been prepared to explain the Location Preparation Journey the Project Champion participated actively in |
| 7 | Contractor to provide spare piling hammer as a standard condition for piling work. | 14 | 0 | Civil engineering | In repl contracts | Institute periodic visual site inspection of piling equipment | No comments |
|  | **OTHERS** |  |  |  |  |  |  |
| 1 | Release budget early for all location in the sequence to enable early commencement |  |  | Wells |  |  |  |
| 2 | Improve (standardise) Rig selection strategy . |  |  | Wells |  |  |  |
| 3 | Stabilise drilling sequence. |  |  | Wells |  |  |  |