

密 级： 秘密

甲方合同编号：

乙方合同编号：

签 订 地 点：

**上海惠生海洋工程有限公司**  
**MARINE XII Offshore FLNG Project 项目**  
**EPCIC 阶段 TOPSIDE 工程设计合同**

发包人(甲方)： 上海惠生海洋工程有限公司

承包人(乙方)： 惠生工程（中国）有限公司

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## 工程设计合同

发包人(以下简称“甲方”): 上海惠生海洋工程有限公司  
企业法人营业执照/营业执照号码: 91310115593170688J  
注册地址: 中国(上海)自由贸易实验区中科路 699 号 A 栋 416,417,501 室  
法定代表人/负责人: 刘洪钧

承包人(以下简称“乙方”): 惠生工程(中国)有限公司  
企业法人营业执照/营业执照号码: 913101156308775603  
注册地址: 中国(上海)自由贸易试验区中科路 699 号  
法定代表人/负责人: 周宏亮  
资质及等级: 化工石化医药行业甲级

鉴于,甲方委托乙方完成 F445 MARINE XII Offshore FLNG Project 项目(以下简称“本项目”)的 EPCIC 阶段 TOPSIDE 详细设计工作(以下简称“本合同工作”)。

鉴于,乙方具有满足上述工作所需的资质、技术经验与能力,愿意向甲方提供相关工程设计及技术服务工作,使本合同项目达到本合同及附件中的各相关规定和要求。

鉴此,甲乙双方在平等、自愿、诚实、守信的基础上,经友好协商,各自授权其代表按下列条款和条件签订本工程设计合同(以下简称“本合同”)。

### 1. 工程项目名称

1.1 工程项目名称: F445 MARINE XII Offshore FLNG Project

### 2. 设计范围及内容

#### 2.1 设计范围

详见本合同附件二工作范围、附件三界面划分和附件四主项表。

#### 2.2 设计内容

完成本合同第2.1条设计范围内约定的详细设计工作。

详见本合同附件二工作范围、附件三界面划分和附件四主项表。

### 3. 设计要求

#### 3.1 时间与进度

乙方收到甲方提供的开展本合同设计工作的完整资料后,乙方按照甲方要求提交 F445 MARINE XII Offshore FLNG Project EPCIC 阶段 TOPSIDE 详细设计文件。

乙方工作进度应满足双方合同约定的进度要求,乙方对设计期间内各项工作的进度调整

应及时报告甲方，并应得到甲方的认可。

若乙方未能达到合同约定的工作进度，乙方应立即采取必要的补救措施，并将准备采取的措施书面提交甲方认可。

若因乙方原因而未能达到合同约定的工作进度，经甲方催促之后仍未能采取必要的补救措施或采取的措施未能达到原工作进度，甲方有权将乙方的部分工作分包给其他设计分包商，由此产生的一切费用经双方确认后从合同总价中扣除。

乙方将不迟于 2026 年 6 月 30 日完成本合同约定范围的全部工作。

### 3.2 设计深度

各专业设计文件的内容和深度应符合 ENI 标准规范和 ABS 标准规范要求。

## 4. 设计依据、标准

### 4.1 设计依据

甲方提交的基础资料：乙方执行本合同第 2 条“设计范围及内容”约定的工作所必需的直接有关资料，详见本合同第 5.1 条。

### 4.2 乙方采用的主要设计标准规范

乙方采用 ENI 标准规范和 ABS 标准规范，如标准和规范的变更给乙方造成工作量和费用的变化，应当按照设计变更约定执行。

## 5. 资料提交及期限

5.1 甲方应按时向乙方提供以下资料及文件,并对其准确性、可靠性和完整性负责。

序号	资料及文件名称	套数	提供日期	备注
1	完整的 Feed package	1	合同生效后 3 日内	
2	ENI 标准规范	1	合同生效后 3 日内	

5.2 乙方应按本合同第 3 条的约定向甲方交付以下设计资料 and 文件，并对其准确性、可靠性和完整性负责。

序号	资料及文件名称	纸版	电子版	交付日期	地点
1	详细/施工图设计文件	8 (套)	PDF 版 (1 套)	按甲方要求	

## 6. 合同价款及支付方式

6.1 本合同为固定总价，合同总价款为（含税）：人民币 12,000 万元（大写：壹亿贰仟万元整）。本合同项下乙方应开具法定的服务业增值税专用发票，税率为 6%，增值税总金额为 6,792,452.83 元。为完成本合同工作如需乙方去往国外出差费用由甲方依据其差

旅政策实报实销。

6.2 此价格包含了乙方履行此合同所需要的一切可能产生的费用（仅条款 6.4 特别约定除外），包括但不限于乙方工作人员的工资、加班费、差旅费（仅限国内）、国家规定的各种社会保障费等福利、保险费、交通费和食宿费等各项成本、乙方的管理费及利润、以及各种税金等），甲方不再支付其它费用。

6.3 乙方按照合同规定的进度和质量要求完成全部设计工作并履行了合同中约定的责任和义务。设计费以设计里程碑为基础，按如下节点，甲方在收到乙方发票后 35 日内支付。

序号	里程碑名称	付款节点	占设计费比例
1	合同生效	预付款	15%
2	30%的 3D 模型审查	完成 30%的 3D 模型审查	10%
3	60%的 3D 模型审查	完成 60%的 3D 模型审查	10%
4	90%的 3D 模型审查	完成 90%的 3D 模型审查	35%
5	Topside 详细设计完成	根据 EDAM 中发布的 DEOD, 90%Topside 详细设计获得审批, 且无重大修改意见	20%
6	竣工图	完成 Topside 竣工图	5%
7	完成性能测试及交付	业主签发接收证书	5%

6.4 特别约定:

a. 由于 30%模型审查为本项目关键节点，为保证此节点能按期完成，甲方向乙方支付激励款（含税）1,287,264 元，乙方应开具法定的服务业增值税专用发票，税率为 6%，增值税金额为 72,864 元。甲方需在收到发票后 35 日内支付该款项。该激励款需专款专用，在乙方收到该款项后，需立即向相关员工发放此款项。

b. 以上条款 a.涉及的金额没有包含在 6.1 规定的固定总价中。

6.5 乙方的银行账户名称和账号如下:

账户名称: 惠生工程(中国)有限公司

开户银行: 中国银行上海紫薇路支行

帐 号: 444259246991

6.6 执行本合同项下相关工作而按法律规定应由各方承担的税费由各方负责缴纳。合同执行期间，如遇国家税务政策等不可抗力因素影响造成税费变化，增加的税费由甲方补偿给乙方，减少的税费由乙方退还给甲方。

6.7 甲方对乙方的支付以银行转账的方式进行。

## 7. 甲方权利与义务

7.1 按合同约定向乙方提供合同约定的供乙方完成本合同设计工作所需的文件和资料,并保证所提供文件和资料的正确性、完整性和及时性。对乙方提出的甲方所提供的资料和设计条件中存在的问题和偏差在 3 日内进行澄清、确认和补充。

7.2 要求乙方对在本合同项下设计工作中发生的不符合工程建设强制性标准、规范和合同约定要求的设计文件进行整改。

7.3 及时组织本项目的设计审查、审批等工作,要求乙方按照审查意见对设计文件进行及时完善和补充。

7.4 根据本合同第 6 条约定的方式和期限向乙方支付合同价款。

7.5 不得要求乙方违反法律、法规和有关工程设计规范、标准进行设计。

7.6 未经乙方书面同意,不得自行修改乙方编制的设计文件。

7.7 为乙方派往甲方办公室或其他工作地点进行工作的人员提供基本的办公条件和必要的劳动保护。

## 8. 乙方权利与义务

8.1 按照合同约定获得合同价款。

8.2 乙方必须任命并始终保持一名经验丰富的设计负责人,全权代表乙方执行本合同。

8.3 乙方必须根据本合同要求成立设计项目组,并为设计项目组配备足够的、称职的、有经验的各专业人员和管理人员,并须保证设计项目组的人员在本项目工作期间应保持稳定和连续。

8.4 向甲方提出开展本合同设计工作所需要的基础资料、设计条件等文件的清单,并在收到甲方提交资料后尽快向甲方确认所收到的资料或提请甲方进行澄清、确认或补充。

8.5 按双方约定的设计标准、规范、规程、定额进行工程设计,严格审核设计文件,并按本合同约定的进度、质量交付设计文件。若由于乙方原因未能按照要求及时完成设计工作导致项目进度落后,应承担相应责任并弥补由此给甲方造成的直接损失。

8.6 委派设计人员参加有关工程设计各个阶段的审查、协调会议等工作,并及时完善技术方案。

8.7 按照本合同约定的设计内容和深度进行设计。乙方保证其提供的所有设计文件和图纸满足甲方的合同要求(包括设计文件通过甲方指定的第三方检验机构的认可),遵循良好的工程设计惯例(包括经济性、便于生产操作、便于维修保养及安全等)。

8.8 对甲方提出的设计文件中存在的问题,应及时给予澄清或提出处理意见及解决方案。

8.9 根据本合同第 9 条的约定,完成相应的设计变更工作。

8.10 因乙方设计缺陷给甲方造成的直接损失的,由乙方承担赔偿责任。

8.11 按照甲方要求,协助甲方派驻设计人员到施工现场解决设计相关问题。

## 9. 设计变更

9.1 甲方根据项目需要，以书面形式有权要求乙方进行设计变更或提出额外要求。因此类变更和/或要求造成乙方费用增加或设计文件交付日期延误的，乙方可以提出变更申请，在获得甲方批准后，由甲方对此类变更引起的费用给予合理补偿、工期合理延长。

9.2 因业主原因造成乙方设计返工或工作量增加的，甲方应协同乙方向业主发起变更，得到甲方业主变更批准和补偿后给予乙方相应的补偿。补偿金额为甲方业主批准的变更中的乙方额外产生的设计工时费，即乙方产生的设计人工时乘以甲方与业主合同中规定的变更单价；该金额以甲方与业主变更单中批准的金额为准。变更单价见附件五。

## 10. 保密责任

10.1 在本合同履行期间，乙方所获得的一切甲方的原始资料、信息及相关工作成果属甲方所有，乙方负有保密义务，未经甲方书面同意，乙方不得在合同期内或合同履行完毕后以任何方式向任何第三方泄露，法律法规强制乙方披露的除外。

10.2 其他保密责任见附件一保密协议。

10.3 除非另有约定，甲乙双方在本合同项下各自的保密义务不得在自本合同生效日起的十五（15）年内终止。

## 11. 不可抗力

11.1 不可抗力事件指合同当事人不能预见、不能避免、不能克服，并妨碍一方全部或部分履行本合同的所有事件，包括但不限于地震、水灾、雷击、雪灾等自然事件以及战争、罢工、瘟疫等社会事件。

11.2 由于不可抗力事件致使一方当事人不能履行本合同的，受不可抗力影响方应立即通知另一方当事人，采取积极措施减少不可抗力造成的损失，并在不可抗力发生后 3 日内向另一方当事人提供发生不可抗力的证明。

11.3 由于不可抗拒的原因，致使合同无法按期履行或不能履行的，所造成的损失由双方各自承担。受不可抗力影响一方未履行通知义务，和/或任一方未积极采取减损措施，致使损失扩大的，该方应就扩大的损失向另一方承担赔偿责任。不可抗力事件结束或其影响消除后，如本合同目的仍可实现，双方应立即继续履行合同义务，合同有效期和/或合同有关执行期间应相应延长。

## 12. 违约责任

12.1 甲方未按合同约定及时提供有关基础资料和设计条件，或延迟应由甲方进行的审批或决策，致使乙方无法进行设计的，乙方提交设计文件日期相应顺延。

12.2 如果甲方未按照本合同第 6 条约定的时间和比例向乙方支付合同价款，则甲方应向乙方支付延误付款所发生的利息，该利息应按全国银行间同业拆借中心公布的贷款市场报价利

率(LPR)计算。

12.3 由于乙方的设计遗漏或错误对甲方施工造成的修改、返工，乙方除负责采取设计补救措施外，应免收受损失部分的设计费，并根据损失程度向甲方赔付赔偿金。

12.4 因乙方原因不能承担完成的部分设计工作，甲方有权将此部分设计工作分包给其他分包商完成，由此产生的费用经双方确认后从合同总价中扣除。

12.5 乙方在本合同项下对甲方最大的违约赔偿限额为本合同价款的百分之十五（15%）。

12.6 双方互不承担间接损失，包括但不限于生产损失、收入损失、利润损失等。

### 13. 权利瑕疵担保

因执行本合同的需要，一方提供的与本合同技术有关的设备、材料、工序工艺、软件及其他知识产权，应保障对方在使用时不存在权利上的瑕疵，不会发生侵犯第三方知识产权等情况。若发生侵害第三方权利的情况，提供方应负责与第三方交涉，并承担由此产生的全部法律责任。

### 14. 合同终止/解除

14.1 经双方协商一致，本合同可在合同履行期间予以终止/解除，终止/解除合同应采用书面形式。

14.2 任何一方可以在履行义务一方出现下列情形之一，并在向其发出书面终止/解除本合同的通知三十（30）日后终止/解除本合同。合同终止/解除的后果不影响在合同终止/解除前已经履行的部分。

- 1) 履行义务一方出现延期支付价款、未按期提供有关基础资料和条件、或延期交付工作成果等严重违反本合同约定的情形，且在收到另一方书面通知后的三十（30）日内没有对该违约行为进行纠正。
- 2) 履行义务一方濒临破产或处于清算、解散状态。
- 3) 不可抗力的影响持续超过六（6）个月，且双方不能依据第15条找到合理的解决方案。
- 4) 在合同执行过程中，若因国家政策调整而引起本合同无法正常执行时，一方可向另一方提出终止执行合同或修改合同有关条款的建议，与之有关的事宜双方协商处理。

14.3 乙方提交全部设计文件后，本项目不能在合理期限内开工建设，或工程建设周期超过行业内一般认知的周期水平，乙方可向甲方发出终止/解除合同的书面通知，通知发出三十（30）日内本项目的建设仍未见合理的改变，合同即告终止/解除，甲方应支付全部合同价款。

14.4 如本合同终止/解除，双方应根据乙方已完成且通过业主和第三方审查的工作量计算设计费用，即时结清本合同价款。

14.5 合同的终止/解除不影响各方在合同终止/解除前依法享有的权利和承担的义务。

14.6 本合同的保密义务不受合同终止/解除的限制。



## 15. 争议的解决

合同履行过程中如果发生的纠纷，双方应友好协商解决。协商不成时，任何一方可以向甲方所在地法院提起诉讼。

## 16. 合同效力及其他约定事项

16.1 本合同经甲乙双方法定代表人或授权代理人签字并加盖公章或合同专用章之日起生效。

16.2 本合同一式正本贰（2）份，副本肆（4）份，双方各执正本壹（1）份，副本贰（2）份。正副本具有同等法律效力。

16.3 如果本合同的任何条款被认为不合法、无效或不可执行，本合同的其他条款的有效性、合法性和可执行性在任何情况下都不应受到影响或损害。

16.4 未经另一方事先书面许可，任何一方都不得以任何方式将在本合同中获得的权益转让、转移或授权给任何第三方。

16.5 甲方利用乙方提交的工作成果所完成的新的技术成果，归甲方所有；乙方在提供本合同工作过程中获得的新的技术成果，归乙方所有。

16.6 对于本合同中到期或终止后仍然应当有效（不论是否明示）的条款应在本合同到期或终止后仍然有效。

16.7 合同生效后，任何一方均不得擅自变更或解除合同，合同中如有未尽事宜，应由甲乙双方共同协商做出补充协议，补充协议具有与合同同等的效力。

16.8 组成本合同的文件及优先解释顺序如下：

- 1) 本合同的补充协议；
- 2) 本合同条款；
- 3) 本合同附件；

## 17. 合同附件

附件一 保密协议

附件二 工作范围

附件三 界面划分

附件四 主项表

附件五 变更单价

签 字

甲方(盖章): 上海惠生海洋工程有限公司

地 址: 中国(上海)自由贸易试验区中科路 699 号 A 栋 416,417,501 室

法定代表人或授权代理人(签字):

日 期:



乙方(盖章): 惠生工程(中国)有限公司

地 址: 中国(上海)自由贸易试验区中科路 699 号

法定代表人或授权代理人(签字):

日 期:



## 附件一 保密协议

### 保 密 协 议

甲方：上海惠生海洋工程有限公司

乙方：惠生工程（中国）有限公司

鉴于：甲乙双方就将要或正在进行的 F445 MARINE XII Offshore FLNG Project 项目（以下简称本项目）设计合作事宜，将涉及、被提供或接触到双方的专利技术、专有技术、商业信息及其它与知识产权有关的保密信息。为此，甲乙双方本着相互尊重、共同发展的原则，经友好协商签订本协议。

#### 第一条 定义

1. 提供方是指保密信息的提供者，接受方是指保密信息的接受者。
2. 保密信息指提供方通过直接或间接方式披露给接受方的相关业务和技术方面的书面或其它形式的资料和信息、数据或技术，以及其它与知识产权有关的信息，不论这些信息是以何种形式和方式披露，也不论这些信息是否标注为保密。
3. 本保密协议中所指保密信息包括但不限于提供方披露的与研究、开发、生产、产品、服务、客户、市场有关的专利技术、专有技术、工艺、设计、图纸、合同、价格、成本、预测和估计、商业秘密及软件、程序等所有的商业信息、技术资料等。
4. 负载保密信息的载体包括打印件、复印件、电子文档、光盘、音像及其它相关介质。
5. 上述所称的保密信息不包括如下的信息：
  - 1) 该保密信息在提供方提供之前接受方就已知晓的。
  - 2) 非任何一方的过错造成的，保密信息已为公众所了解的。
  - 3) 从没有保密义务的第三方那里正当取得的，并且以接受方所应了解为限，该第三方不是违法获得和披露该保密信息的。
  - 4) 提供方向没有保密义务的第三方合法披露并且被该第三方合法披露的。

#### 第二条 双方责任

1. 甲乙双方互为保密信息的提供方和接受方，负有保密义务，承担保密责任。
2. 甲乙双方应对该等保密信息采取严格的保密措施和保管措施，并确保其安全。任何以电子方式存储于电脑的保密信息应被能有效地防范于任何未经授权的直接或间接的入侵或使用。

3. 接受方同意该等保密信息仅可以披露给因履行接受方所聘用之职务而必须并且适当地要求了解该等保密信息的员工。除了因工作原因而需要保密信息并且已与接受方签订了员工保密协议的员工外，接受方不得将任何该等保密信息向任何其他人员披露。员工在法律上有义务根据本合同承担的相同范围的保密义务，员工违约视为接受方违约。

4. 接受方同意对该等保密信息的使用只限于本项目，除非在提供方向接受方披露该等保密信息时，提供方以书面形式指明接受方可用于其它项目。

5. 即使接受方在向第三方披露该等保密信息的主要目的是为了甲乙双方在本项目中的合作，接受方在披露该等保密信息前必须事先得到提供方的书面许可，未经提供方书面同意，接受方不得把任何保密信息以任何形式向任何第三方披露、泄露、出售、交易、复制和使用。

6. 如果接受方被要求向政府部门、司法机构和证券交易所等方披露保密信息，接受方应立即向提供方予以通报。并且，甲乙双方应尽快合作，通过所有合法、合理的办法尽量减小保密信息披露的机会和范围，以及由披露所造成的负面影响。

### 第三条 知识产权

甲乙双方向对方披露保密信息并不构成向对方的转让或授予对其专利技术、专有技术及其它与知识产权相关的权益。

### 第四条 违约和赔偿

1. 接受方出现违反本协议的情形，无论其原因为故意或过失，都应当立即停止对提供方所造成的侵害，并应迅速采取一切必要措施防止保密信息的进一步扩散，尽最大可能消除因其违约对提供方所造成的影响。

2. 接受方如有任何违约，应赔偿提供方因此而遭受的所有损害和损失，包括提供方就此向接受方提出的索赔费用。

3. 提供方索赔的费用以实际遭受和可以合理预估的损失为限。

### 第五条 保密信息的保存和归还

1. 甲乙双方中的任何一方有权保存必要的保密资料，以便在履行其在本项目工作中所承担的法律及约定义务时使用该等保密信息。

2. 在本项目终止之后，本协议所涉及的由提供方披露给接受方的一切保密信息，无论是书面的还是其他任何形式，以及接受方经提供方许可制作的任何副本，均需立即交还提供方，或根据提供方要求予以销毁，并且，所有有关销毁凭证应在提供方要求时间内送交提供方。

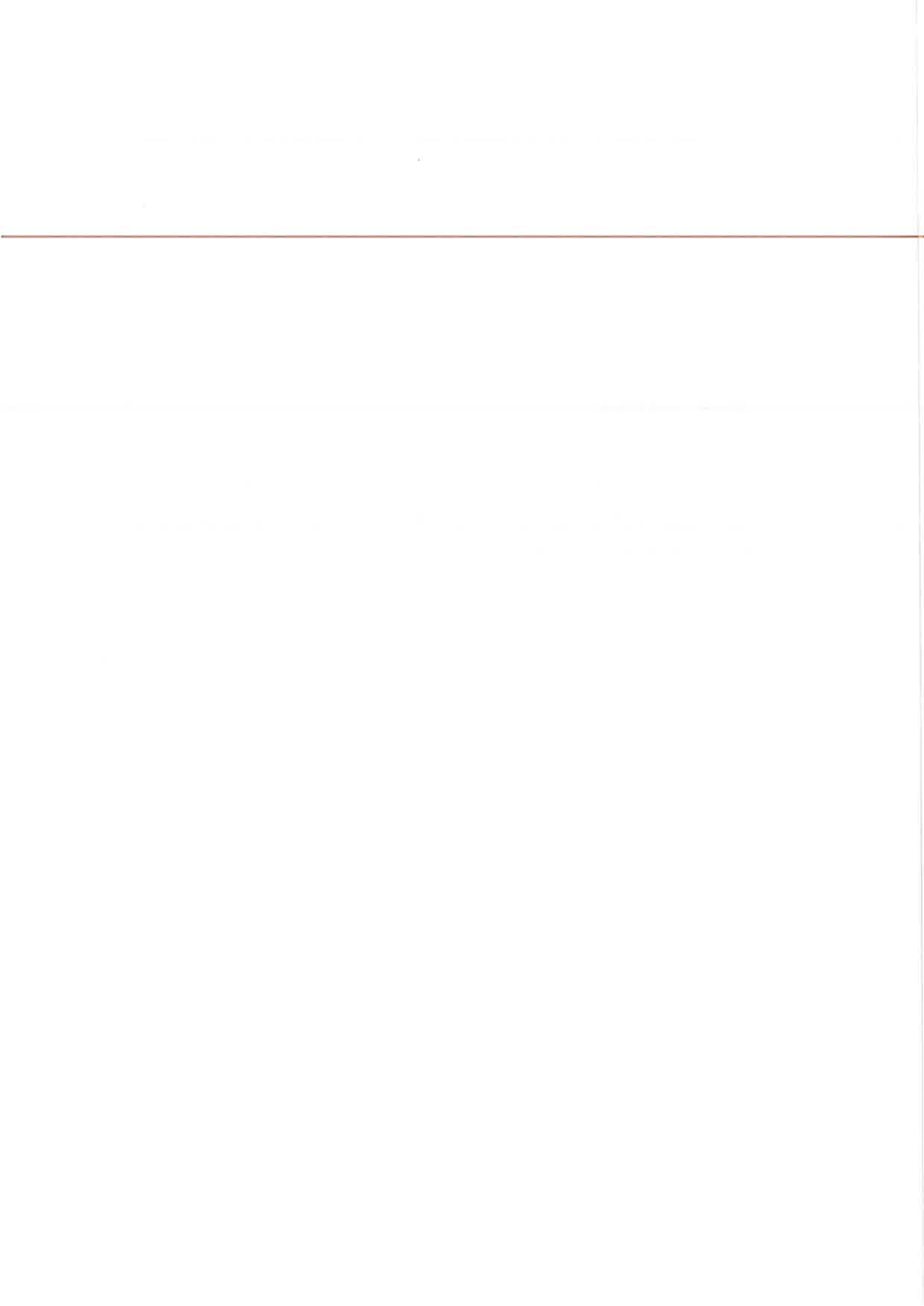
3. 如果甲乙双方合作项目不再继续进行或其中一方因故退出此项目，一方在任何时候提出书面要求，另一方应当在收到该书面要求后的五个工作日内销毁或向对方返还其占有的或控制的全部保密信息以及包含或体现了保密信息的全部文件和其它材料并连同全部副本及销毁凭证。

#### 第六条 争议解决

因本合同履行之争议，由双方协商解决，协商不成，按照主合同约定的争议解决方式办理。

#### 第七条 协议有效期

1. 本协议有效期为 15 年。
2. 本协议自双方法定代表人或委托代理人签字、盖章后生效。协议双方一致同意，本协议可以提前终止。但是按照本协议之规定对于在本协议终止前所披露的信息接受方的保密义务将不受影响，而将继续有效并具有约束力。



ENI FLNG Responsibility Matrix-RB

Unit	Unit description	Geographical Location	System Design Lead	Layout	MTO	Tie-in List and Interface drawing Between topside and Hull	Comments
<b>Process and Marine System</b>							
	INLET SEPARATOR	Topside	WEL	WEL	WEL	WOM provide the input of the tie-in list and interface drawing accordingly.	Refer to geophysical split drawing for interface
	ACID GAS REMOVAL	Topside	WEL	WEL	WEL		WOM shall participate in the review
	DEHYDRATION	Topside	WEL	WEL	WEL		
	MERCURY REMOVAL	Topside	WEL	WEL	WEL		
	NGL EXTRACTION AND FEED GAS BOOSTER	Topside	WEL	WEL	WEL		
	LIQUEFACTION	Topside	WEL	WEL	WEL		WOM shall participate in design and review.
	CONDENSATE STABILIZATION	Topside	WEL	WEL	WEL		WOM shall participate in the review
	GAS TURBINE GENERATOR UNIT	Topside	WEL	WEL	WEL		
	REFRIGERANT STORAGE AND MAKE-UP	Topside	WEL	WEL	WEL		WOM shall participate in design and review.
	WASTE HEAT RECOVERY	Topside	WEL	WEL	WEL		
	AMINE STORAGE	Topside	WEL	WEL	WEL		
	HOT OIL SYSTEM	Topside	WEL	WEL	WEL		
	FUEL GAS SYSTEM - generation	Topside	WEL	WEL	WEL		
	FUEL GAS SYSTEM - distribution	Hull	WOM	WOM	WOM		WOM to provide the flow rate (min/nor/max), B/L P & T at the interface point.

ENI FLNG Responsibility Matrix: c-RB

Unit	Unit description	Geographical Location	System Design Lead	Layout	MTO	Tie-In List and Interface drawing Between topside and Hull	Comments
	FLARE SYSTEM / VENT SYSTEM	Topside	WEL	WEL	WEL	WOM prepare the tie-in list and interface drawing to WEL, WEL provide the input accordingly	
	FLARE SYSTEM / VENT SYSTEM - lines from hull	Hull	WOM	WOM	WOM		WOM to provide flow rate and gas composition if it is intended to be combined with the flare header or Vent header
	END FLASH DRUM	Topside	WEL	WEL	WEL		WOM shall participate in design and review.
	LNG BOG COMPRESSORS AND LPG BOG COMPRESSORE	Topside	WEL	WEL	WEL		WOM shall participate in design and review.
	LNG STORAGE	Hull	WOM	WOM	WOM		Including LPG storage and condensate storage
	LNG OFFLOADING	Main Deck	WOM	WOM	WOM		Including LPG offloading and condensate offloading.
	CHEMICALS INJECTION TOPSIDE	Topside	WEL	WEL	WEL		
	OPEN DRAINS	Topside	WEL	WEL	WEL		WEL will provide open drain data for hull (min/nor/max) including flow rate, P & T.
	OPEN DRAINS	Hull	WOM	WOM	WOM		
	CLOSED DRAINS	Topside	WEL	WEL	WEL		WEL will provide closed drain data for hull (min/nor/max) including flow rate, P & T.
	CLOSED DRAINS	Hull	WOM	WOM	WOM		
	FRESH COOLING WATER SUPPLY SYSTEM	Hull	WOM	WOM	WOM		
	FRESH COOLING WATER distribution	Topside	WEL	WEL	WEL		Fresh Water for topsides distribution by WEL (P&ID, piping, instr, etc.)
	DEMIN WATER SYSTEM -generation	Hull	WOM	WOM	WOM		
	DEMIN WATER SYSTEM - distribution	Topside	WEL	WEL	WEL		
	INSTRUMENT & PLANT AIR - generation	Hull	WOM	WOM	WOM		
	INSTRUMENT & PLANT AIR - distribution	Topside	WEL	WEL	WEL		



ENI FLNG Responsibility Matrix-RB

Unit	Unit description	Geographical Location	System Design Lead	Layout	MTO	Tie-in List and Interface drawing Between topside and Hull	Comments
	SEA WATER SYSTEM	Hull	WOM	WOM	WOM		
	LUBE OIL SYSTEM	Hull	WOM	WOM	WOM		
	DIESEL OIL SYSTEM	Hull	WOM	WOM	WOM		
		Topside	WEL	WEL	WEL		WEL will provide the diesel oil required for topsides (min/nor/max) including flow rate, P & T.
	CHEMICALS INJECTION HULL	Hull	WOM	WOM	WOM		
	SLOP WATER TANK AND SLOP OIL TANK	Hull	WOM	WOM	WOM		
	NITROGEN GENERATION - HIGH PURITY	Hull	WOM	WOM	WOM		WEL will provide the N2 required for topsides (min/nor/max) including flow rate, P & T.
	NITROGEN GENERATION - HIGH PURITY-DISTRIBUTION	Topside	WEL	WEL	WEL		
	NITROGEN GENERATION - LOW PURITY	Hull	WOM	WOM	WOM		WEL will provide the N2 required for topsides (min/nor/max) including flow rate, P & T.
	NITROGEN GENERATION - LOW PURITY-DISTRIBUTION	Topside	WEL	WEL	WEL		
	ESSENTIAL GENERATOR	Hull	WOM	WOM	WOM		
	EMERGENCY POWER GENERATION	Hull	WOM	WOM	WOM		
<b>Electrical &amp; Telecommunication</b>							
	Interface Cable	Topside	WEL	WEL	WEL		Refer to geophysical spill drawing for interface
							Power/Signal output side shall take charge of Cable MTO except cable of cargo pumps;
		Hull	WOM	WOM	WOM		
	Power Distribution	Hull	WOM	WOM	WOM		Cargo pump Mcc at E-house will be included in WOM MTO
		Topside	WEL	WEL	WEL		Cargo pump Mcc power supply will be included in WEL
	3 Model	Hull	WOM	WOM	WOM		Cable tray between topside to hull will be generally corresponding with the overall principle;

ENI FLNG Responsibility Matrix-RB

Unit	Unit description	Geographical Location	System Design Lead	Layout	MTO	Tie-In List and Interface drawing Between topside and Hull	Comments
		Topside	WEL	WEL	WEL		Equipment at topside including E-house; Cable tray from E-house to cargo pumps/fwd MCC room will be included in WEL.
	Lighting	Hull	WOM	WOM	WOM		WEL provide emergency lighting required for topside to WOM.
		Topside	WEL	WEL	WEL		
	Tel-Comm	Hull	WOM	WOM	WOM		Both Topside and Hull to have a common telcom package Specification and System design by WOM.
		Topside	WEL	WEL	WEL		(PAGA, operation radio, CCTV, etc), WEL provide reserved circle number/power for topside, tel-com for topside including drawings/requirement is responsible by WEL.
<b>Instrumentation</b>							<b>Refer to geophysical split drawing for interface</b>
	Facility Control System((CSS)- DCS/SIS/FGS	Hull	WOM	WOM	WOM		To be integrated into ONE system (WOM to take lead) Specification and System integration by WOM
		Topside	WEL	WEL	WEL		WOM takes the lead for integrating the entire ICSS. WEL to provide the necessary inputs related to WOM, such as IO, Control System requirement, CCR space requirement,, etc.
	Instrumentation (PT,TT,FT,PG,FG,LT,LG,control valve, on-off valve; etc)	Hull/Main Deck	WOM	WOM	WOM		including datasheet, RFP,TA, VP review,etc
		Topside	WEL	WEL	WEL		including datasheet, RFP,TA, VP review,etc
	Flow Metering	Hull	WOM	WOM	WOM		Includes metering facility on Main Deck & Hull. including datasheet, RFP,TA, VP review,etc
		Topside	WEL	WEL	WEL		including datasheet, RFP,TA, VP review,etc
	F&G Detector	Topside	WEL	WEL	WEL		Including E-house including datasheet, RFP,TA, VP review,etc
		Hull	WOM	WOM	WOM		including datasheet, RFP,TA, VP review,etc
	AVEVA 3 Model	Hull	WOM	WOM	WOM		

ENI FLNG Responsibility Matrix-RB

Unit	Unit description	Geographical Location	System Design Lead	Layout	MTO	Tie-in List and Interface drawing Between topside and Hull	Comments
		Topside	WEL	WEL	WEL		
	Interface Cable	Topside	WEL	WEL	WEL		Who shall send signal to the opponent's range, shall take charge of Cable MTO
		Hull	WOM	WOM	WOM		Who shall send signal to the opponent's range, shall take charge of Cable MTO
	MISCELLANEOUS INSTRUMENT	Topside	WEL	WEL	WEL		Installing material, cable, cable tray, etc:RFP,TA, VP review,etc
		Hull	WOM	WOM	WOM		Installing material, cable, cable tray, etc:RFP,TA, VP review,etc
	AVEVA INSTRUMENTATION	Topside	WEL	WEL	WEL		Based on company requirements.
		Hull	WOM	WOM	WOM		Based on company requirements.
<b>E-House and Warehouse &amp; Workshop</b>							
	E-House	OVERALL	WEL	WEL	WEL		Including Electrical room Layout and requirement
		Topside	WEL	WEL	WEL		Topside switchgear/MCC - Specification and System design by WEL including layout requirement. Architecture and HVAC are responsible by WEL.
		Hull	WOM	WOM	WOM		Hull MCC - Specification and System design by WOM, WOM provide layout requirement. Accommodation are responsible by WOM.
	Warehouse & Workshop	OVERALL	WEL	WEL	WEL		Including room Layout and requirement
		Topside	WEL	WEL	WEL		Architecture and HVAC are responsible by WEL.
		Hull	WOM	WOM	WOM		WOM provide input to WEL based on requirement. Accommodation are responsible by WOM.
<b>Naval and Mooring</b>							
	NAVAL ARCHITECTURE	Hull	WOM	WOM	WOM		WEL provide the Topside layout, weight distribution & COG to WOM

ENI FLNG Responsibility Matrix-RB

Unit	Unit description	Geographical Location	System Design Lead	Layout	MTO	Tie-in List and Interface drawing Between topside and Hull	Comments
	Mooring Analysis and layout	Mooring	APL	APL	APL		To NAVAL and Structural
	Motion Analysis	Mooring	APL	APL	APL		To NAVAL and Structural
	Riser	Mooring	APL	APL	APL		
	MOORING SYSTEM including pig traps	Mooring	APL	APL	APL		
<b>Miscellaneous</b>							
	Floor Drains	Hull	WOM	WOM	WOM		
		Main Deck	WOM	WOM	WOM		
		Topsides	WEL	WEL	WEL		
	MATERIAL HANDLING SYSTEM	Topside	WEL	WEL	WEL		
	MATERIAL HANDLING SYSTEM	Hull	WOM	WOM	WOM		
	HVAC	Hull/	WOM	WOM	WOM		HVAC in Hull to include Hull utility, Electrical rooms, substations, Hull ITR, Instrument workshop, Maintenance workshop, warehouse etc
		Topside Accommodation	WOM	WOM	WOM		1. HVAC will be required at Accommodation (Deck House), CCR/CER, Emergency room etc
		Topside	WOM	WOM	WOM		1. HVAC will be required at workshop, E-house etc, WEL provide the input and support manpower if required.
	Crane	Main Deck	WOM	WOM	WOM		TOPSIDE PROVIDE THE LOCATION, PARAMETER OF MATERIAL HANDLING CRANE. HULL SIDE SHALL BE RESPONSIBLE FOR THE CRANE PEDESTAL AND HULL REINFORCEMENT.
	EMERGENCY EQUIPMENT	Hull	WOM	WOM	WOM		Refers to Life saving equipment etc
		Topside	WEL	WEL	WEL		Refers to eye wash etc

ENI FLNG Responsibility Matrix-RB

Unit	Unit description	Geographical Location	System Design Lead	Layout	MTO	Tie-In List and Interface drawing Between topside and Hull	Comments
	ACCOMMODATION	Topside	WOM	WOM	WOM		Includes other facilities like CCR/CER, Emergency room, Workshop, Emergency Power Generation, Safety & Evacuation systems.
	ACCESS BETWEEN TOPSIDE PROCESS DECK TO LQ	TOPSIDE/ACCOMMODATION	WEL	WEL	WEL		WOM provide location on B deck to WEL
	LABORATORY	Topside	WEL	WEL	WEL		
<b>Structural</b>							<b>Refer to geophysical spill drawing for interface</b>
	Module Support Stool	Topside	WOM	WOM	WOM		WEL provide the load data to WOM by each stool, WEL provide the bearing on the top of stool.
	Topside Modules: Primary steel design drawings and calculations	Topside	WEL	WEL	WEL		
	Topside Modules: Secondary steel design drawings and calculations	Topside	WEL	WEL	WEL		
	Topside Modules: Equipment Supports drawings and calculations	Topside	WEL	WEL	WEL		
	Topside Modules: Tertiary steel design drawings category 1 (access platforms, stairways, handrails and access ladders)	Topside	WEL	WEL	WEL		Access ladders to maindeck is responsible by WEL.
	Tertiary steel design drawings category 2 (grating floors, wood decking floors, deck coaming and penetrations)	Topside	WEL	WEL	WEL		
	Topside Piperack	Topside	WEL	WEL	WEL		WEL provide the load data and location to WOM.
	Flare support structural	Main Deck	WOM	WOM	WOM		WEL provide the load data and location to WOM.
	Flare structural	Topside	WEL	WEL	WEL		
	Topside Cable support structure	Topside	WEL	WEL	WEL		
	SSY layout	Mooring	APL	APL	APL		
	Reaction force on mooring support structural	Mooring	APL	APL	-		
	SSY mooring support structural	Hull	WOM	WOM	WOM		

ENI FLNG Responsibility Matrix-RB

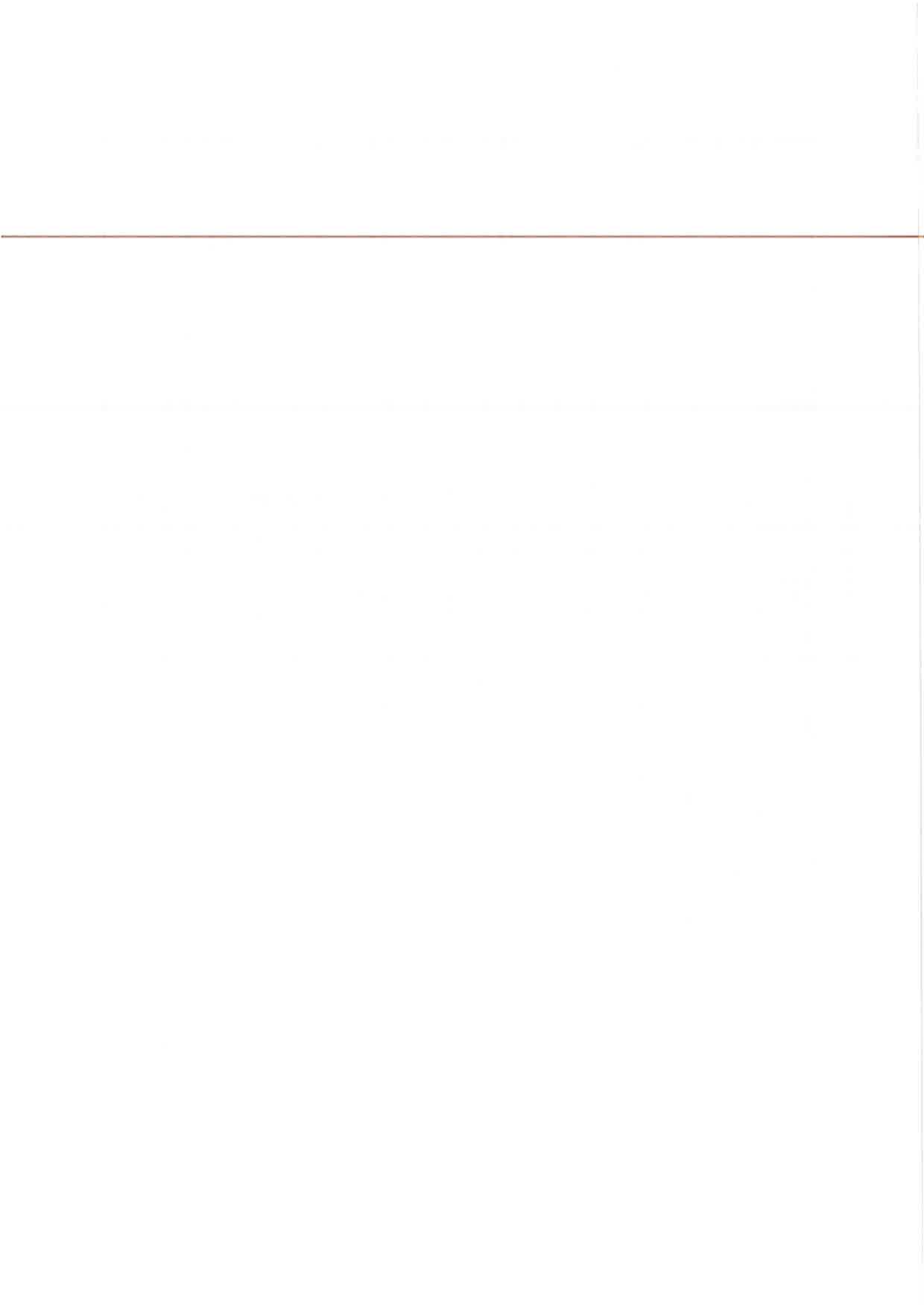
Unit	Unit description	Geographical Location	System Design Lead	Layout	MTO	Tie-In List and Interface drawing Between topside and Hull	Comments
	3D model	Topside	WEL	WEL	WEL		
	3D model	Hull and Main deck	WOM	WOM	WOM		
<b>Piping</b>							Refer to geophysical split drawing for Interface
	Topsides Process	Topside	WEL	WEL	WEL		
	Topside Piperack	Topside	WEL	WEL	WEL		
	Topsides Utility Distribution	Topside	WEL	WEL	WEL		
	Marine Piperack	Hull	WOM	WOM	WOM		
	Topsides Utility	Hull	WOM	WOM	WOM		
	3D model	Topside	WEL	WEL	WEL		
		Hull/Main Deck	WOM	WOM	WOM		
	Hull Piping	Hull/Main Deck	WOM	WOM	WOM		
<b>Safety</b>							
	HAZID/ENVID, HRA	OVERALL	WOM	-	-		By 3rd party, check and approval by WOM. WEL shall participate the workshop meeting accordingly and implement recommendation and closeout action items.
	HAZOP Activity	OVERALL	WOM	-	-		By 3rd party, check and approval by WOM. WEL shall participate the workshop meeting accordingly and implement recommendation and closeout action items.
	SIL Classification, SIL Verification, SRS	OVERALL	WOM	-	-		By 3rd party, check and approval by WOM. WEL shall participate the workshop meeting accordingly and implement recommendation and closeout action items.
	RAM	OVERALL	WOM	-	-		By 3rd party, check and approval by WOM. Majority input to 3rd party will be by WOM. WEL maybe requested to provide relevant input to 3rd party if required. WEL to implement and closeout recommendation.
	Various safety studies and risk assessment including ERA, FRA, CRA, QRA, SCE, PS etc	OVERALL	WOM	-	-		By 3rd party, both WOM & WEL provide the input to 3rd party as required. WEL to implement and closeout recommendation.

ENI FLNG Responsibility Matrix-RB

Unit	Unit description	Geographical Location	System Design Lead	Layout	MTO	Tie-in List and Interface drawing Between topside and Hull	Comments
	MAE Register, DAL Spec, Flare Radiation & Dispersion, philosophy, firewater demand calculation, user defined complicated network PipeNet hydraulic calculation, user defined complicated network PipeNet transient analysis	OVERALL	WOM	-	-		Prepare, check and approval by WOM, WEL to generate entire topsides firewater piping isometric to WOM to perform PipeNet analysis. WEL to implement recommended outcome as a result of analysis.
	Dry chemical extinguishing system and inergen gaseous fire suppression system pipe flow	Topsides	WOM	-	-		Flow calculation by WEL, WOM to approve.
	Specification and safety related layout drawings e.g. Fire Control Plan, Escape, Evacuation and LSA Plan, PFP & CSP Layout	Topsides	WOM	WEL	WEL		Equipment spec, data sheet, drawings develop by WEL. Check and approval by WOM.
	Fire water Pumps	Hull	WOM	WOM	WOM		
	FW deluge spray and deluge valve skids	Hull/Main Deck	WOM	WOM	WOM		
	FW Monitors and Hydrants	Topsides	WOM	WEL	WEL		WEL to continue develop from WOM FEED P&IDs and implement. Check & approval by WOM.
		Hull/Main Deck	WOM	WOM	WOM		
	Dry chemical extinguishing system and inergen gaseous fire suppression system	Topsides	WOM	WEL	WEL		WEL to develop P&ID. Check & approval by WOM.
	Foam extinguishing system	Hull/Main Deck	WOM	WOM	WOM		
	Instrument & electrical for Fire fighting system	Hull/Main Deck	WOM	WOM	WOM		WEL to continue develop from WOM FEED P&ID and implement. Check & approval by WOM.
		Topsides	WOM	WEL	WEL		
	3D model	Hull/Main Deck	WOM	WOM	WOM		Refer to the instrument & electrical interface of process system
		Topsides	WOM	WEL	WEL		
		Hull/Main Deck	WOM	WOM	WOM		
		Topsides	WOM	WEL	WEL		3D model by WEL, WOM to approve equipment layout, nozzle placement, distance etc.

**NOTES:**

- For overall FLNG, design philosophy, specifications, guidelines for individual discipline, shall be responsible by WOM in principle, if which are included in the FEED topside deliverable package shall be responsible by WEL, the counterpart discipline shall provide the input requirement.
- For overall FLNG, RAM, demand calculation, flare radiation & dispersion, various risk assessments and safety studies, SCE PS, Safety Case etc shall be responsible by WOM, WEL shall follow them to implement of topside design and followup through to closeout each recommendation.
- For individual discipline, the related discipline of WOM has obligation to provide the FLNG special requirement to the related discipline of WEL if required based on FLNG design.
- For safety design, WOM and WEL shall work together to design in principle.





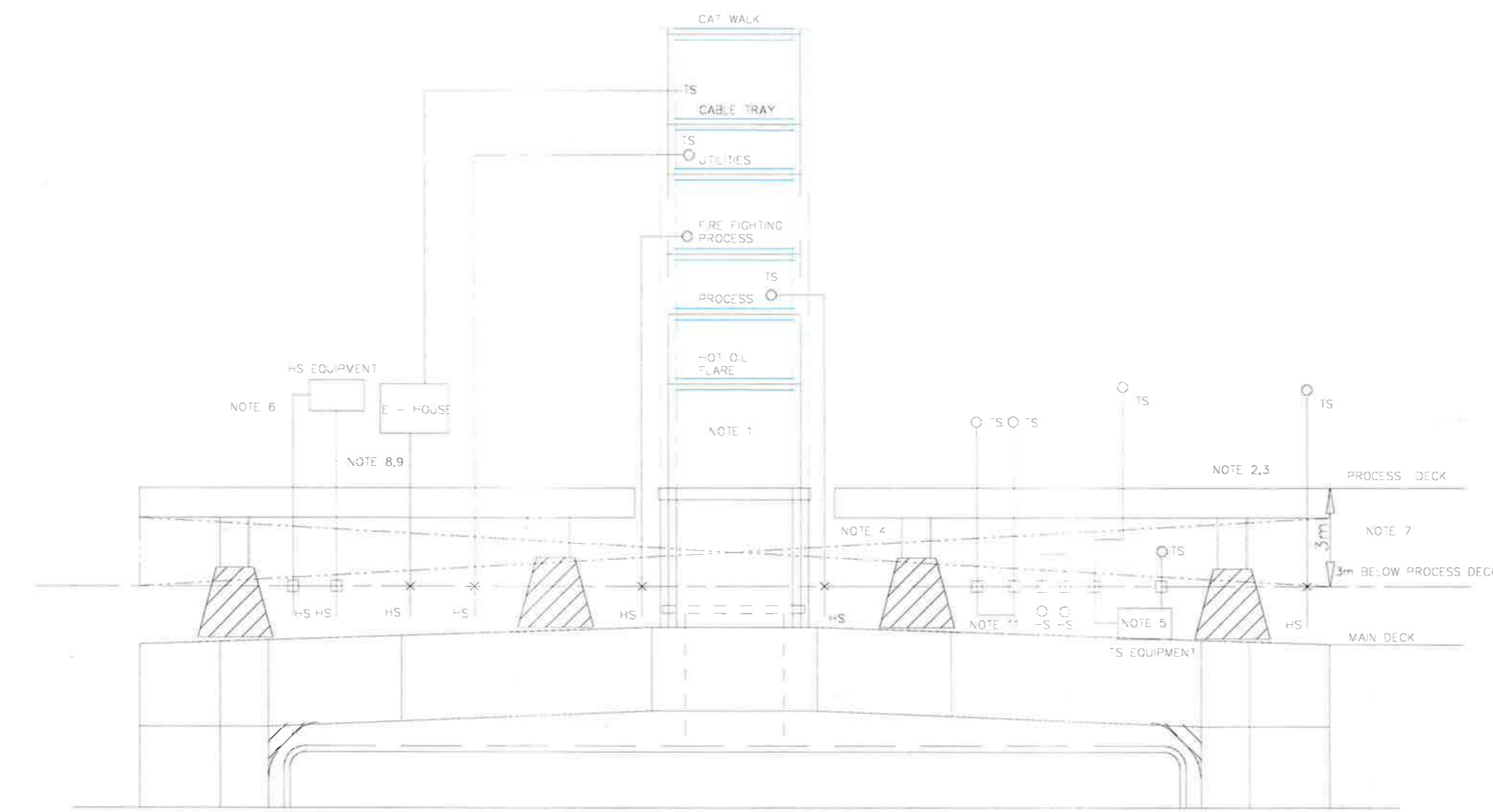
NO.	DATE
1	15/09/2022
2	18/09/2022
3	19/09/2022

REVISIONS				
REV	DATE	DESCRIPTION	DESIGN	APPROVED
A	15/09/2022	Issue for Approval	AGT	CPW
B	18/09/2022	Issue for Approval	AGT	CPW

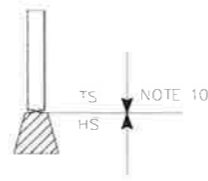
GENERAL NOTES

NOTES

1. TOPSIDE SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WHOLE TOPSIDE PIPE RACK, LOAD DATA AND LOCATION SHOULD BE PROVIDED TO HULL SIDE STRUCTURAL DISCIPLINE TO DESIGN HULL REINFORCEMENT.
2. TOPSIDE PROVIDE THE LOCATION, PARAMETER OF MATERIAL HANDLING CRANE, HULL SIDE SHALL BE RESPONSIBLE FOR THE CRANE PEDESTAL AND HULL REINFORCEMENT.
3. HULL SIDE PROVIDE THE HULL FRAMING LAYOUT TO TOPSIDE TO DESIGN THE MODULE STOOL LOCATION.
4. TOPSIDE TO PROVIDE THE LIST, LOCATION, LOAD CASES, ETC. HULLSIDE TO DESIGN THE FOUNDATION AND HULL REINFORCEMENT IF REQUIRED.
5. IF TOPSIDE PIPING CONNECT TO TOPSIDE EQUIPMENT LOCATE ON THE MAIN DECK EXCLUDING FLARE SYSTEM, EVERYTHING SHALL BE RESPONSIBLE BY HULLSIDE.
6. IF HULL PIPING CONNECT TO HULL EQUIPMENT LOCATE ON THE TOPSIDE, EVERYTHING SHALL BE RESPONSIBLE BY TOPSIDE.
7. THE 3.0 METER BELOW ON PROCESS DECK SHALL BE REGARDED AS SPLIT POINT BETWEEN TOPSIDE AND HULLSIDE, IF TOPSIDE PIPING NEED TO CONNECT TO HULL EQUIPMENT AT MAIN DECK OR HULL PIPING NEED TO CONNECT TO TOPSIDE HEADER OR EQUIPMENT, TIE-IN LIST SHOULD BE ESTABLISHED FOR TOPSIDE AND HULLSIDE.
8. MAIN CABLE ROUTING, CONTROL AND INSTRUMENT FOR TOPSIDE SHALL BE LOCATED IN TOPSIDE PIPE RACK AND BRANCHING TO INDIVIDUAL LOADS, WHICH IS TOPSIDE SCOPE OF WORK.
9. ELECTRICAL DEVICE AND INSTRUMENT SERVING TO CARGO SYSTEM AS WELL AS HULL SYSTEM AND HULLSIDE SHALL BE HULLSIDE SCOPE OF WORK.
10. HORIZONTAL BEARING ON THE TOP OF STOOL SHALL BE RESPONSIBLE BY WEL.
11. THE 3.0 METER BELOW ON PROCESS DECK SHALL BE REGARDED AS SPLIT POINT BETWEEN TOPSIDE AND HULLSIDE, IF TOPSIDE PIPING NEED TO GO THROUGH SPLIT INTERFACE, EVERYTHING SHALL BE RESPONSIBLE BY HULLSIDE, OR HULL PIPING NEED TO GO THROUGH SPLIT INTERFACE, EVERYTHING SHALL BE RESPONSIBLE BY TOPSIDE, AREA LIMIT LIST SHOULD BE ESTABLISHED FOR TOPSIDE AND HULLSIDE.



- TS: TOPSIDE
- HS: HULLSIDE
- X: TIE-IN POINT
- : CONNECTION POINT
- : AREA LIMIT POINT



HOLD LISTS

REFERENCES

CLIENT: <b>Eni Congo</b>		DESIGNER: <b>wison</b>	
CONTRACTOR: <b>Wison Offshore &amp; Marine Limited</b> 633 Zhongke Road, Zhangjiang, Pudong, Shanghai, 201210, P.R. China			
APPR'D BY:	APPR'D LETTER:	DATE:	PROJECT:
CLIENT:			ENI FLNG EPCIC PROJECT
CLASS:			PROJECT NO: F445 DESIGN STA: EPCIC
DESIGN: ALL	DATE: 15/09/2022	FILE: INTERFACE GEOPHYSICAL SPLIT BETWEEN TOPSIDE AND HULL	
CHK'D: CPW	DATE: 18/09/2022		
APPR'D: AGT	DATE: 19/09/2022	DWG NO: F445-2008-GLN-DWG-1001	VER: B
AGREED: -	DATE: -	DATE: -	VER: -
ACCEPT: -	DATE: -	SCALE: -	SHEET: 2/2

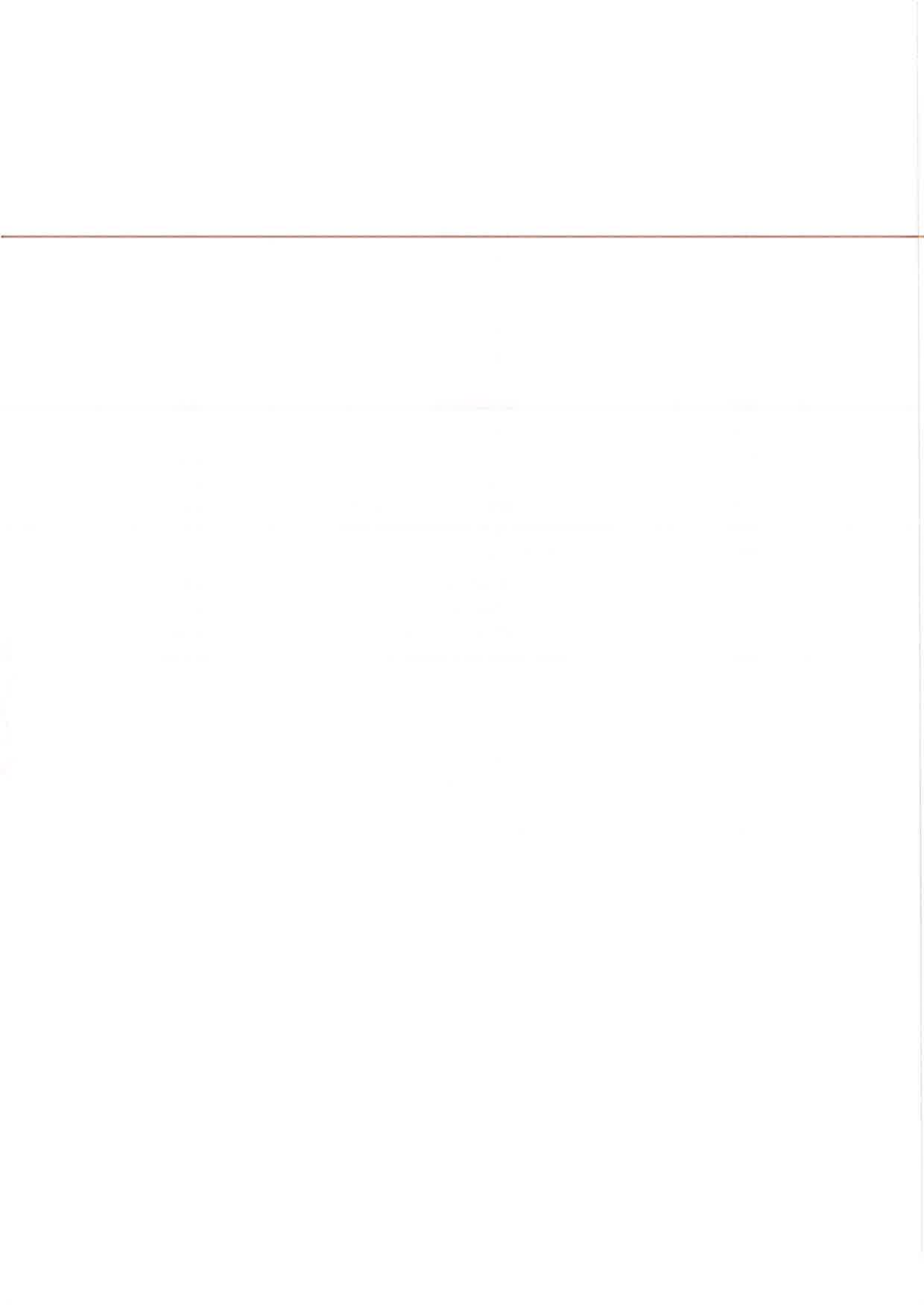
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上海外高桥造船有限公司

附件四 主项表

Module No	Module Name	Scope
PR08	PIPE RACK	WEL
PR07	PIPE RACK	WEL
PR06	PIPE RACK	WEL
PR05	PIPE RACK	WEL
PR04	PIPE RACK	WEL
PR03	PIPE RACK	WEL
PR02	PIPE RACK	WEL
PR01	PIPE RACK	WEL
S07	WORKSHOP	WEL
S06	BOG COMPRESSION LNG END FLASH	WEL
S05	LIQUEFACTION 2	Saipem
S04	LIQUEFACTION 1	Saipem
S03	NGL EXTRACTION FEED GAS BOOSTER	WEL
S02	DEHYDRATION AND MERCURY REMOVAL	WEL
S01	REFRIGERANT MAKE UP	WEL
P07	E-HOUSE	WEL
P06	POWER GENERATION	WEL
P05	MRC AND GAS TURBINE 2	Saipem
P04	MRC AND GAS TURBINE 1	Saipem
P03	AMINE TREATING	WEL
P02	INLET FACILITIES HOT OIL FUEL GAS CONDENSATE STABILIZATION	WEL
P01	FLARE SYSTEM	WEL
LD2	LAYDOWN AREA	WEL
PG2	SAFETY GAP	WEL
LD1	LAYDOWN AREA	WEL
PG1	SAFETY GAP	WEL
SD1	Segregate Deck	WEL
LD3	LAYDOWN AREA	WEL
SG3	SAFETY GAP	WEL
SG2	SAFETY GAP	WEL
SG1	SAFETY GAP	WEL
SD2	Segregate Deck	WEL





## 附件五 变更单价

Ref.	Description	Unit	Rate (USD)
<b>A</b>	<b>ENGINEERING HOME OFFICE</b>		
	<b>Staff</b>		
2.49	Commissioning Assitant Engineer	Hr	35.00
2.50	Cost Control Manager	Hr	93.00
2.51	Cost Control Engineer	Hr	45.00
2.52	Cost Control Assistant Engineer	Hr	35.00
2.53	Subcontracts Manager	Hr	93.00
2.54	Senior Subcontracts Engineer	Hr	84.00
2.55	Subcontracts Engineer	Hr	45.00
2.56	Sub Contracts Assistant Engineer	Hr	35.00
2.57	Estimating Manager	Hr	93.00
2.58	Estimating Engineer	Hr	45.00
2.59	Estimating Assistant Engineer	Hr	35.00
2.60	Quality Manager	Hr	93.00
2.61	Quality Engineer	Hr	45.00
2.62	Quality Assistant Engineer	Hr	35.00
2.63	Planning Manager	Hr	93.00
2.64	Planning Engineer	Hr	45.00
2.65	Planning Assistant Engineer	Hr	35.00
2.66	Contract Manager	Hr	93.00
2.67	Project Accountant	Hr	45.00
2.68	QA / QC Specialist	Hr	84.00
2.69	Draughtsman	Hr	35.00
2.70	Site IT Support Engineer	Hr	45.00
	<b>Standard Working Week</b>		
2.71	Home Office	Hrs	54.00

## 附件五 变更单价

<b>2.0 PROJECT MANAGEMENT AND ENGINEERING</b>			
<b>Ref.</b>	<b>Description</b>	<b>Unit</b>	<b>Rate (USD)</b>
<b>A</b>	<b>ENGINEERING HOME OFFICE</b>		
	<b>Staff</b>		
2.01	Project Director / Deputy Project Director	Hr	215.00
2.02	Project Manager	Hr	200.00
2.03	Engineering Manager	Hr	180.00
2.04	Technical Manager	Hr	161.00
2.05	Lead Project Engineer	Hr	113.00
2.06	Project Engineer	Hr	80.00
2.07	Assistant Project Engineer	Hr	35.00
2.08	Lead Process Engineer	Hr	113.00
2.09	Process Engineer	Hr	58.00
2.10	Assistant Process Engineer	Hr	35.00
2.11	Lead Structural Engineer	Hr	113.00
2.12	Structural Engineer	Hr	58.00
2.13	Assistant Structural Engineer	Hr	35.00
2.14	Piping/Mechanical Engineer	Hr	58.00
2.15	Assistant Piping/Mechanical Engineer	Hr	35.00
2.16	Lead Piping/Mechanical Engineer	Hr	113.00
2.17	Lead Electrical Engineer	Hr	113.00
2.18	Electrical Engineer	Hr	58.00
2.19	Assistant Electrical Engineer	Hr	35.00
2.20	Lead Instrument Engineer	Hr	113.00
2.21	Instrument Engineer	Hr	58.00
2.22	Assistant Instrument Engineer	Hr	35.00
2.23	Lead Designer/Draughtsman	Hr	113.00
2.24	Designer/Draughtsman	Hr	35.00
2.25	Assistant Designer/Draughtsman	Hr	35.00
2.26	Lead Naval Architect	Hr	113.00
2.27	Naval Architect	Hr	58.00
2.28	Naval Architectural Technician	Hr	58.00
2.29	Lead HVAC Engineer	Hr	113.00
2.30	HVAC Engineer	Hr	58.00
2.31	Document Controller	Hr	35.00
2.32	Construction Support	Hr	35.00
2.33	HSE Engineer	Hr	58.00
2.34	Lead Engineers - Other Disciplines	Hr	113.00
2.35	Engineers - Other Disciplines	Hr	58.00
2.36	Assistant Engineers - Other Disciplines	Hr	35.00
2.37	Procurement Manager	Hr	93.00
	<b>Other Disciplines</b>		
2.38	Project Material Manager	Hr	93.00
2.39	Project Secretary	Hr	45.00
2.40	Procurement Buyer / Logistics / Expeditor / Inspector (Home Office WS)	Hr	45.00
2.41	Technical Safety Lead	Hr	113.00
2.42	Technical Safety Engineer	Hr	58.00
2.43	Technical Safety Assistant Engineer	Hr	35.00
2.44	Materials Lead	Hr	58.00
2.45	Materials Engineer	Hr	45.00
2.46	Materials Assistant Engineer	Hr	35.00
2.47	Commissioning Lead	Hr	93.00
2.48	Commissioning Engineer	Hr	45.00



