## Project Controls

# Project Controls Expo - 14 ${ }^{\text {th }}$ November 2018 Emirates Arsenal Stadium, London 

The Integration of Project Controls into the
Finance Function

## About the Speaker

Mark Galbraith MBA, Stockpile Business Controller \& Head of Profession (Project Controls), AWE Plc.
$\square$ Electrical Engineering Background

$\square 23$ years in Project Controls and Business Management
$\square$ Defence and Civil Nuclear sectors

## About the Topic



A real case study about...
Harnessing the power of finance and project controls as a combined organisation

## About the Topic

The presentation takes you on the journey from recognising the need to form a combined Finance and Business Management (Project Controls)

Organisation; through what has been implemented over the last 5 years and on to a look at the challenges ahead.....

## About AWE


$\square$ Deliver nuclear warheads for the UK's deterrent, and use our expertise to support national security
$\square \quad$ In existence since the early 1950s
$\square \quad$ Predominantly operate two sites
$\square$ Contractorised under GOCO in 1995
$\square \quad$ Customer MoD/DNO (OGD + others)

$\square$ From 2000 - AWEML - 25 year M\&O contract
$\square$ Joint Venture between Lockheed Martin, Jacobs Engineering and Serco
$\square$ AWE Plc. - day to day management of the M\&O contract and Operating Licence Holder

## AWE hits the headlines.... of



## $\because$ Project Controls

## Customers crisis of confidence

$\square$ Performance in the delivery of some of the largest, most complex nuclear projects was not meeting established baselines for cost \& schedule.

- Governance was inadequate to recognise initial cost \& schedule risks
$\square \quad$ Failure to establish an integrated approach to component delivery created a lack of clarity of true demand.

■ Lack of an integrated programme

- Multiple internal delivery dates causing confusion and not aligning to the overall needs of the business
$\square$ Ineffective key control processes hampered key management information availability and quality.


## AWE's Response...the 'transformation plan'

## Corporately :

$\square$ Improved corporate governance.
$\square \quad$ Up skilling in programme management expertise.
$\square$ More robust financial and programme control environment established.
$\square$ Modernised Contract - Qualifying Defence Contract - Defence Reform Act 2014 \& Single Source Regulations.
$\square \quad$ Centralised Programme Management Office (PMO)

## AWE's Response...the 'transformation plan'

Forming the Finance \& Business Management Organisation :
$\square$ Adapting Lockheed Martin 'business operations' model
$\square \quad$ Bringing together finance and project controls functions
$\square$ Embedded BUT independent from project delivery teams

$\square$ Improved MI - data driven - utilising Earned Value Management
$\square$ Baselined Programme - the PMB - 'ONE' version of the truth..
$\square \quad$ Culture shift - transparency / no surprises

## AWE's response...re-establishing some basics

$\square \quad$ F\&BM Vision :
to be seen as an engaged and trusted team...


## $\square \quad$ F\&BM Purpose :

right information, right controls, enabling the right decisions...


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## What...needed doing?

 deliver it..

## How...the 'Hot House'

$\square$ Group of SME's from all related sub-functions - Project Controls

- Finance
- Supply Chain

■ Commercial
$\square \quad$ Intensive 3 months : off-site : facilitated by Consultants

- Operating Model
- Service Catalogue

- Processes \& Process Controls
- Demand Sizing, Job Descriptions \& Role Profiles
- Competency Framework
$\square \quad$ Formed the basis for the new Organisation
..but it was just the start..!


## F\&BM Operating Model



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## 5 Pillar Contract Structure



## Contract Artefacts


$\square$ Statement of Work (SoW)
$\square$ IMP / IMS
$\square$ Basis of Estimate (BoE)
$\square$ Basis of Schedule (BoS)
$\square$ Master Data \& Assumptions (MDAL)
$\square$ Risks \& Opportunities

## Governance Framework

$\square$ Performance Measurement utilising Earned Value
$\square$ Programme Performance Management System (PPMS)
$\square$ CAM101 training
$\square$ Work Authorisation
$\square$ Baseline Management - Change Control
$\square$ Integrated Surveillance Reviews
$\square$ EVM Compliance and Reporting

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## SOx

$\square$ Effective framework of internal controls
$\square$ Documented evidence of controls being performed
$\square$ Regular testing and sign-off both internally \& externally

## BENEFITS

$\square$ Enforced strong control environment
$\square$ More reliable financial information
$\square$ Reduced risk of errors or irregularities


## Rolling Wave Planning

$\square$ Rolling wave approach
$\square$ Typically next year in detail
$\square$ Subsequent years mix of detail and planning packages
$\square$ Currently refreshed each year

## Overall Programme Baseline IMP/IMS



## Business Rhythm

$\square$ Well established
$\square$ Standardised performance review meetings
$\square$ Standardised reporting packs
$\square$ Data 'direct from the system'

$\square$ Includes customer reviews

## Where are we now..key highlights



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## The Challenge Ahead

$\square$ Coaching role to 'commercialise' AWE's thinking
$\square$ New ERP system
$\square$ Update project controls toolset
$\square$ 'One F\&BM' - boundaryless
$\square \quad$ Continue building internal capability


## AWEsome Job Opportunities

If you're looking for an exciting career in an organisation that is ambitious, innovative and developing world class capability......

We're looking for you!

## Planners

Cost Engineers
Commercial Managers
Supply Chain Professionals


## AWEsome Job Opportunities



## Visit us at Skills London 2018 <br> The UK's biggest jobs and careers event!

Skills London is the UK's biggest jobs and careers event for 1524 year olds and their families, taking place on 23 \& 24 November 2018 at ExCeL London.

## ? Questions ?

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