Hunua 4 – Systems Innovation

NEC Compliance Management

- **Richard McIntosh – H4 Project Manager**

  - Richard is part of the Major Projects group at Watercare which is responsible for delivery of Watercare's major capital works projects.

- **Jon Marshall**

  - Jon is the regional general manager for Conject Pacific. The company is a subsidiary of UK based Conject which is one of the largest supplier of compliance management software to construction projects in the world

- **Overview**

  - H4 Overview - $400million drinking water pipeline for Auckland

- **Project Timeframe – 2010 until 2018**

- **Phases**

  - Investigation and enabling works

  - Staged Design

  - Staged Construction

- **Contracts – NEC ECC and Supply**

- **Why choose NEC3?**

  - Suite of aligned contracts

  - Collaborative contract

  - Pro-active risk management

  - Effective process for dealing with change

  Promotes good practice management

- **Contract Management before a system**

  - Number of spreadsheets to manage communications

  - Challenge to monitor timeframes

  - Lack of document tracking and association

  - Takes time to manage documents

Overview – Compliance Functions

- **Contract Control**

    - Managing all contractual communications across the supply chain

    - Managing NEC – SC, PSC , ECC , ECS

    - Application of formal Communications Process

    - Reporting

- **Compliance Key Objectives**

    - Manage the large amounts of data created during the project – avoid dependence on PDF and email

    - Drive Accountability/Prioritisation – all project members know their next step and when they have to take it

    - Drive visibility – ensure client/consultants/contractors have visibility across the supply chain of what is or what is not happening

    - Drive Auditability – ensure drill down though the change decision process and provide a complete "as-built" of project change communications in a central repository

    - Drive Reporting – data forms allow a lot of in project and cross project programme level reports to be created

After

- NEC3 Health Check:

  - Identified improvements to the project

  - Contract management system was the key recommendation

- Management System:

  - Reduced the time spent manually managing document control

  - One place for contract documentation

  - Tracks workflow and timeframes and displays this on dashboard

  - Visibility and association of documents through the NEC3 process

  - Varying rights of access depending on role and company

- Pitfalls and Lessons for the next Project

  - Document the scope – ensure all parties understand the process for design and approval during the document design phase

  - IT – get all IT parties involved early at both WSL and Consultants as IT firewalls have created performance issues (SaaS versus Local installs)

  - Partners – we didn't do a good job of engaging partners or explaining what we wanted to achieve

  - Train up Super users – investment for the future

  - Client investment in training its Supply Chain Partners

Expected Benefits

- **Reduce Cost**

  - Reduce disputes and analysis of change on the project

  - Reduce inaccuracy of drawings and contractual communications through visibility and auditability

  - Reduce misunderstood, lost communications through accountability

  - Reduce delay through prioritisation and early notice of potential change/risk

- **Improve Outcomes and Analysis**

  - Eliminate attaching documents to email so ensuring all change communications are accessible and reportable

  - Ensure cost data is readily available and monitored including expected and agreed cost changes

  - Reduce or eliminate disputes