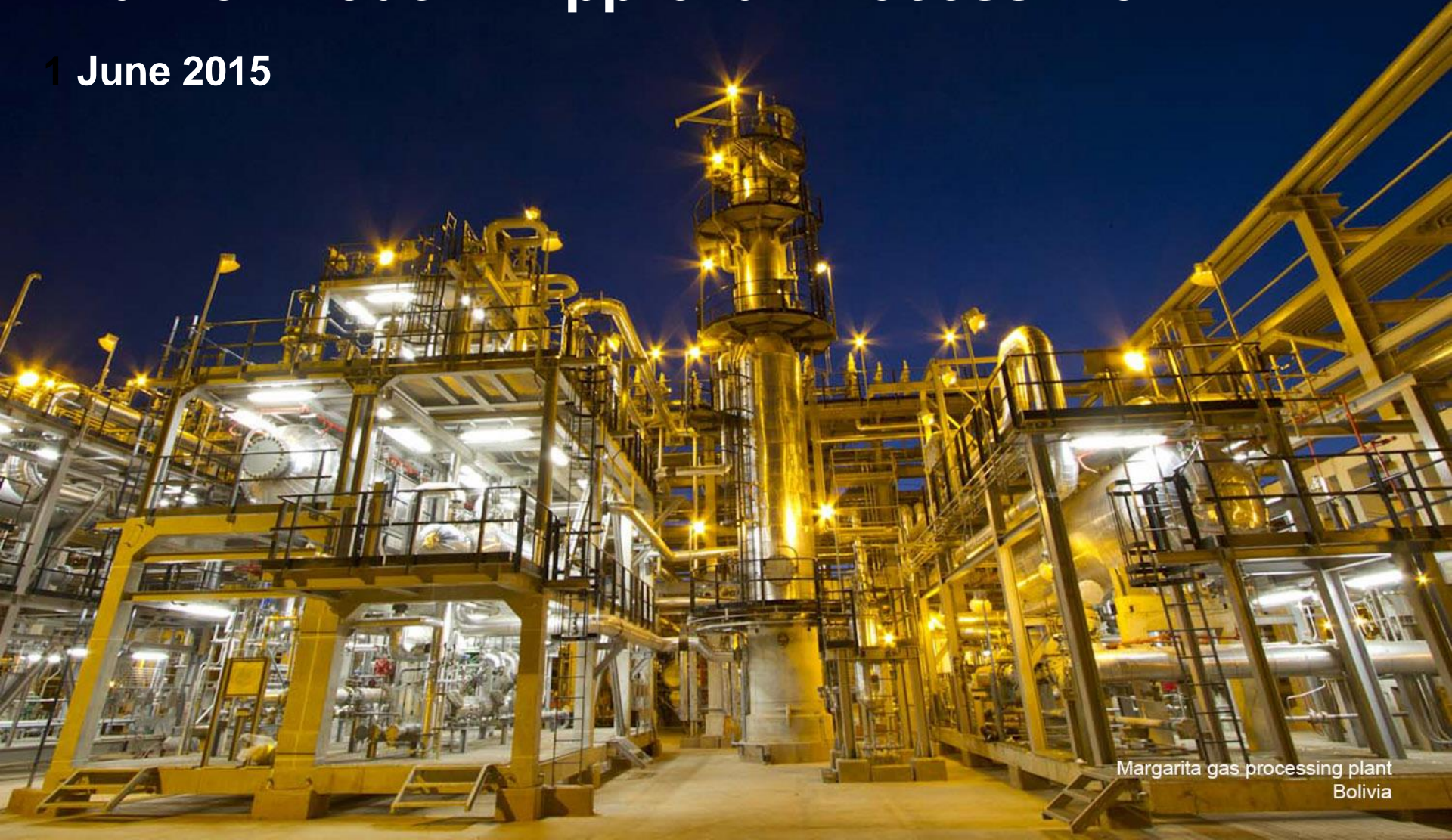# Barrier Model KT

BG GROUP
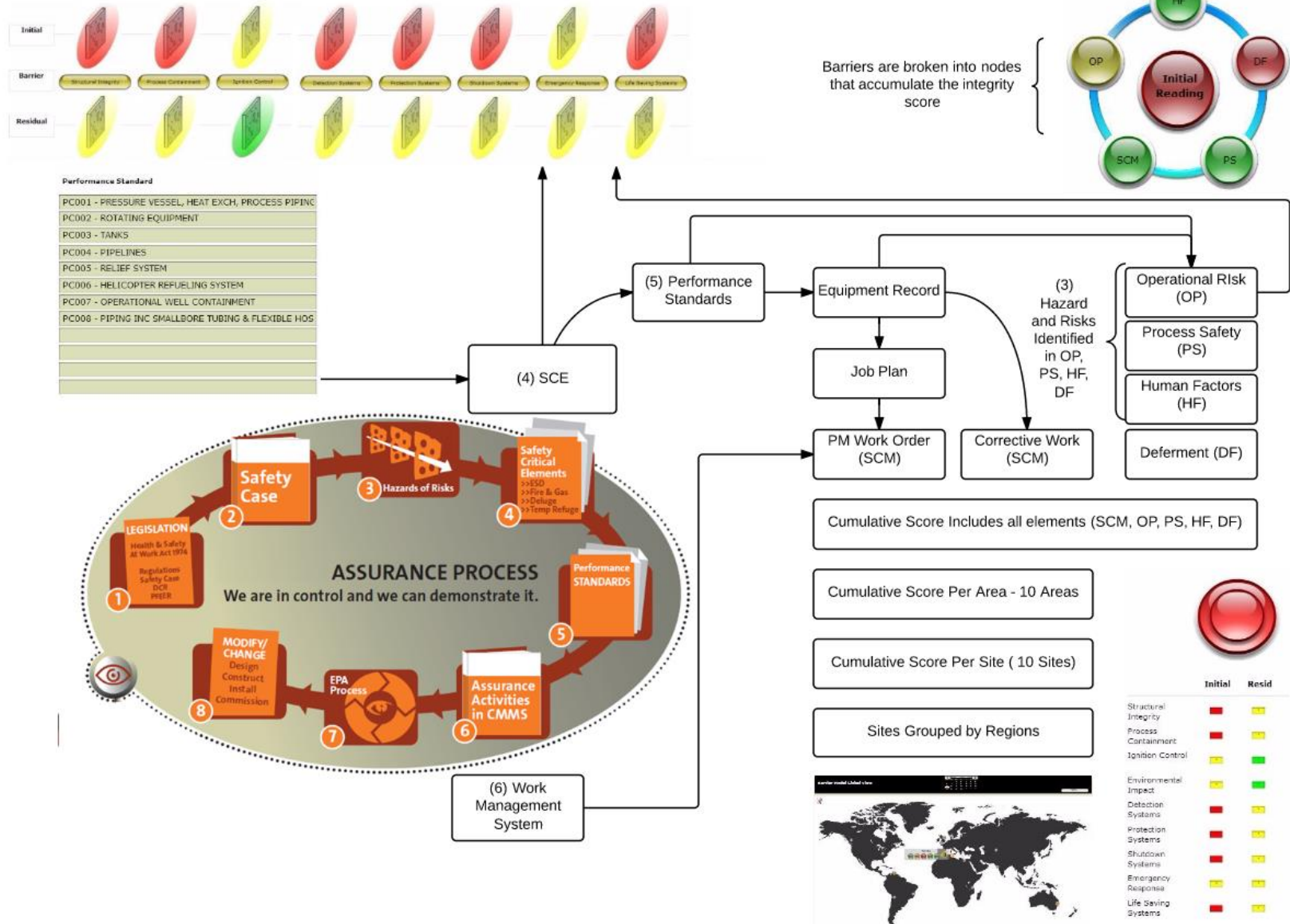
Barrier Model – Approval Process Flow

1 June 2015
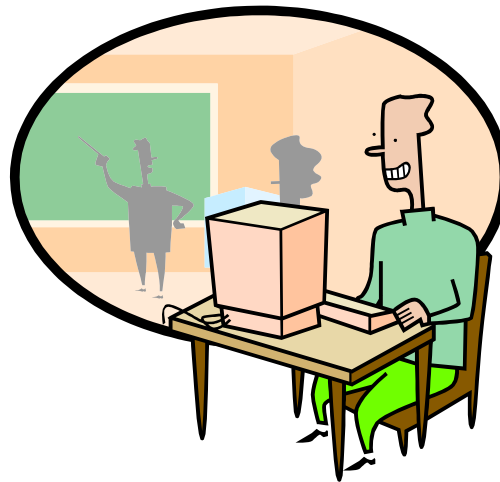
Margarita gas processing plant
Bolivia

Introduction

★ The process flow for managing a risk record in the barrier model

- Risk Record Overview

- What are Pending Actions

- System Roles

- Standard Work Flow

- How to extend a risk record if its overdue

- When to complete a risk record

The Risk Record

Barriers are broken into nodes that accumulate the integrity score

Performance Standard

PC001 - PRESSURE VESSEL, HEAT EXCH, PROCESS PIPING
PC002 - ROTATING EQUIPMENT
PC003 - TANKS
PC004 - PIPELINES
PC005 - RELIEF SYSTEM
PC006 - HELICOPTER REFUELING SYSTEM
PC007 - OPERATIONAL WELL CONTAINMENT
PC008 - PIPING INC SMALLBORE TUBING & FLEXIBLE HOS

(5) Performance Standards

Equipment Record

(3) Hazard and Risks Identified in OP, PS, HF, DF

Operational RIsk (OP)

Process Safety (PS)

Human Factors (HF)

Deferment (DF)

(4) SCE

Job Plan

PM Work Order (SCM)

Corrective Work (SCM)

Cumulative Score Includes all elements (SCM, OP, PS, HF, DF)

Cumulative Score Per Area - 10 Areas

Cumulative Score Per Site (10 Sites)

Sites Grouped by Regions

ASSURANCE PROCESS
We are in control and we can demonstrate it.

(6) Work Management System

Pending Actions

Pending Actions

- Appear automatically when the barrier model application starts.

- Pending Actions are records that require review, endorsement or approval.

- Pending Actions is a list specific for the user logged into the system.

- Since users are assigned to ROLES, then each user assigned to that role will see the risk assessment in their respective lists.

- Overdue actions are displayed.

TERMINAL - DF (Overdue in 160 days) TER-13-00001
Deferement of Safety Critical work

Roles in the System
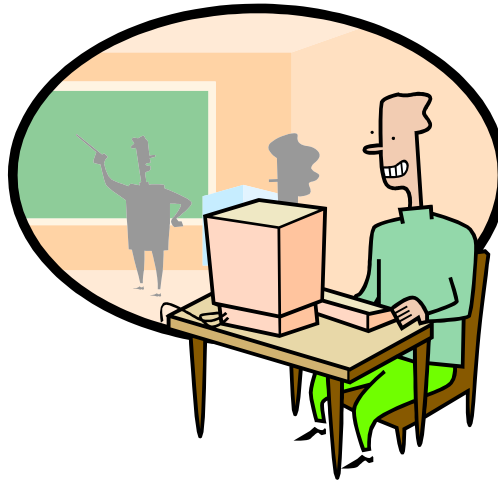
Barrier Model - Roles

Risk assessment creator - Ability to create risk assessments

Ris**k assessment editor** - Ability to update, process to review, process to approval,

Risk assessment approval/Endorser -

> Approval based on Endorsement of risk by relevant Asset Technical Authority
> Or escalation due to exceeded number of extensions of the Risk assessment.
> Endorsement is required prior to Installation Manager/Delegate approval

Generic Role Key: X = Access, A = Approver, D = Delegate, E = Endorser	RA Creator	RA Editor (REVIEWER)	RA ENDORSE APPROVER	RA Closure	RA Revision
Installation Manager, (OIM)	X	X	A	X	X
Installation Production Team Lead, (PTL/OPS)	X	X	A/D	X	
Maintenance Team Lead, (MTL)	X	X		X	
HSSE Advisor,	X	X		X	
Asset Technical Authority, (ATA)	X	X	E	X	X
Operation Support Engineers	X	X		X	
Production Superintendant			A		X
Engineering Manager			E		X
Technical Manager			A		X
Operations Manager			A		X

Each Asset should nominate personnel for the roles.

Assigning a Role

- The user must exist in the system.

- From the menu select Maintenance / Role Mapping
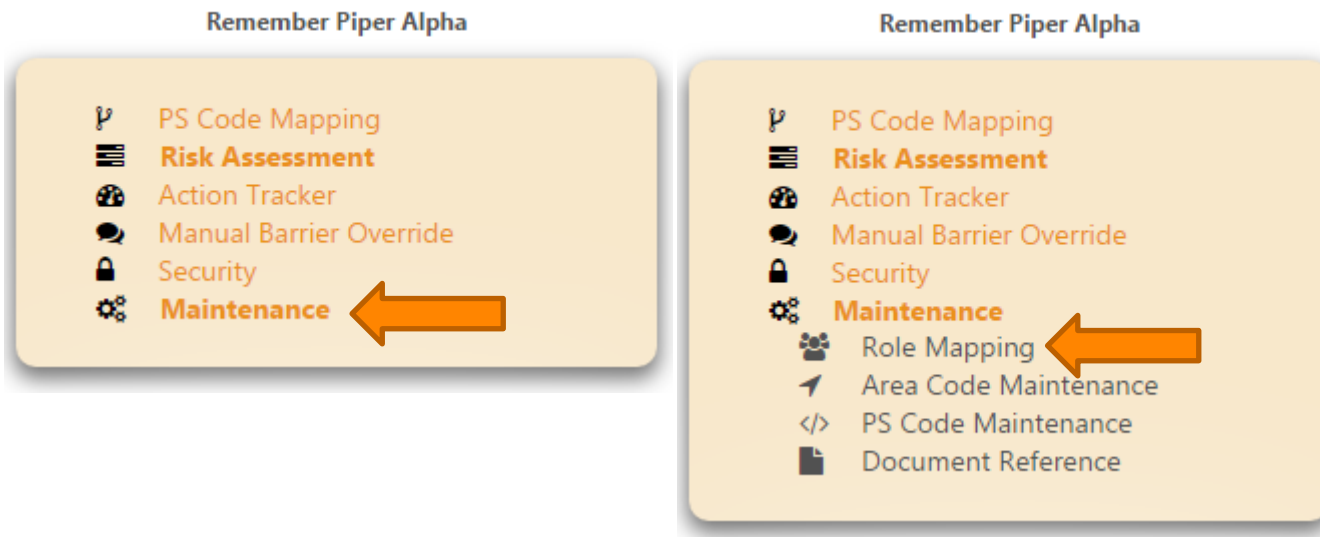
Assigning a Role

- The roles page displays. Please note that roles are generic terms and may not reflect your organisation and are not maintainable as they are group wide.

Role Mapping ▲Close 💾Save

- Role Mapping
- User Role Maintenance
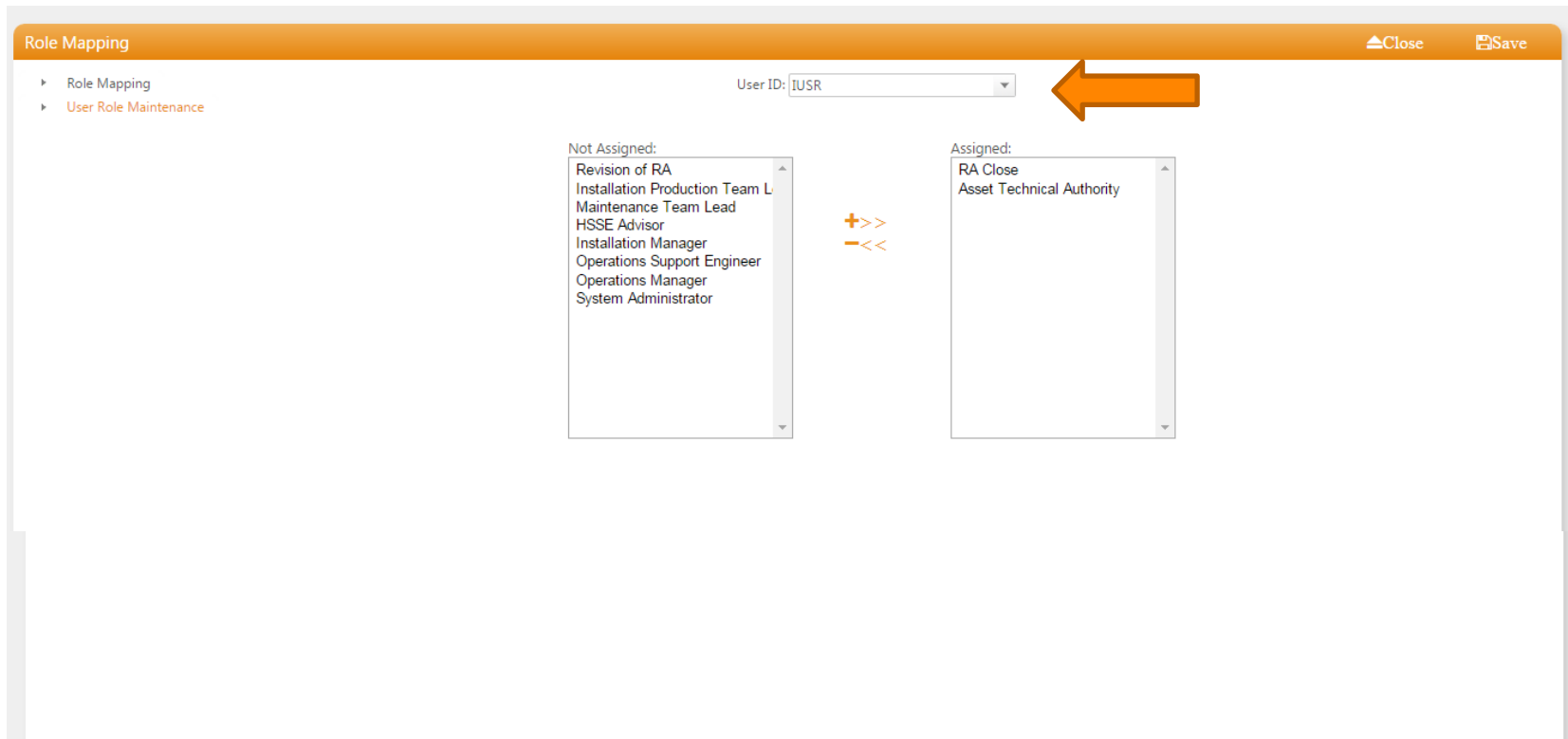
Select the User Role Maintenance Menu option

							Acknowledge	Approver	
Operations M							☐	☑	🗑Delete
Asset Technic							☑	☐	🗑Delete
Installation Production Team Lead	☑	☐	☐	☑	☑	☑	☐	☑	🗑Delete
Maintenance Team Lead	☐	☐	☐	☑	☑	☑	☐	☐	🗑Delete
HSSE Advisor	☐	☐	☐	☐	☑	☑	☐	☐	🗑Delete
RA Close	☐	☐	☐	☐	☐	☐	☐	☐	🗑Delete
Installation Manager	☑	☐	☐	☑	☑	☑	☐	☑	🗑Delete
Operations Support Engineer	☐	☐	☐	☐	☑	☑	☐	☐	🗑Delete
System Administrator	☑	☑	☐	☐	☐	☐	☐	☐	🗑Delete
Revision of RA	☐	☐	☐	☐	☑	☑	☐	☐	🗑Delete
	☐	☐	☐	☐	☐	☐	☐	☐	➕Add

Assigning a Role

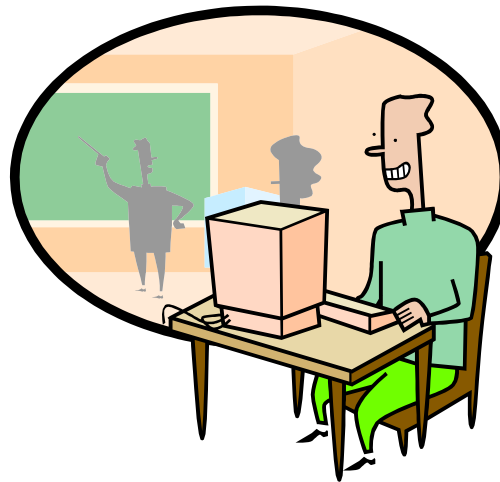- User Role Maintenance. Step 1 Select the user. Step 2 Select the roles for the user.

Assigning a Role

- A user can be assigned to multiple roles with the same permissions

- The highest permissions will be applied, not the lowest.

- If a user is to be able to close a RA, they must have the RA CLOSE role assigned.

- If a user us able to extend a RA, they must have the REVISION OF RA role assigned.

- Roles can be applied and removed at any stage.

- Roles will have more than one user assigned. Therefore if a RA requires approval, and there are 5 users with approval, then all five users will see the RA in their Pending Actions List.
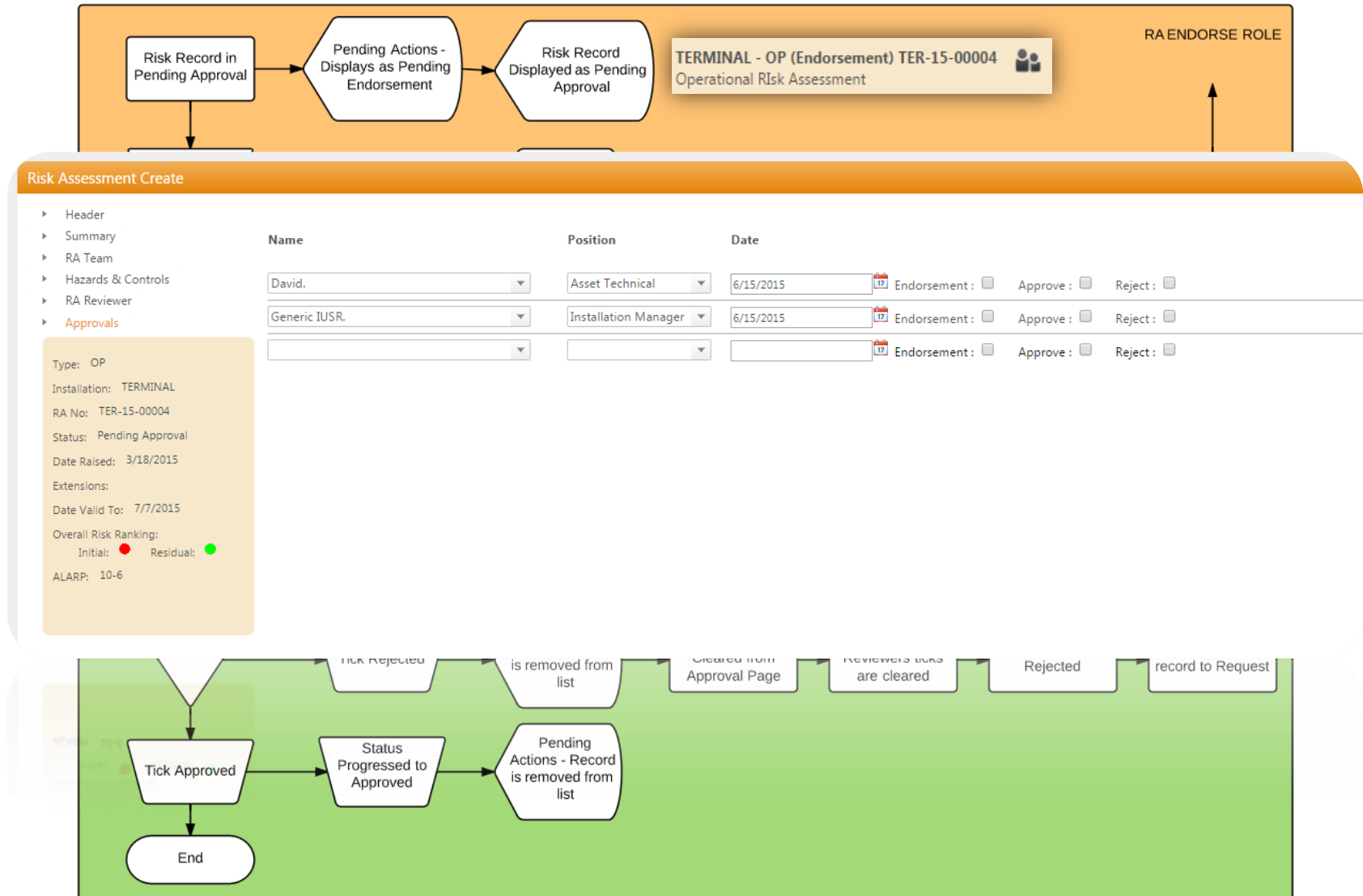
Work flow

Work Flow (Request to Pending Approval)
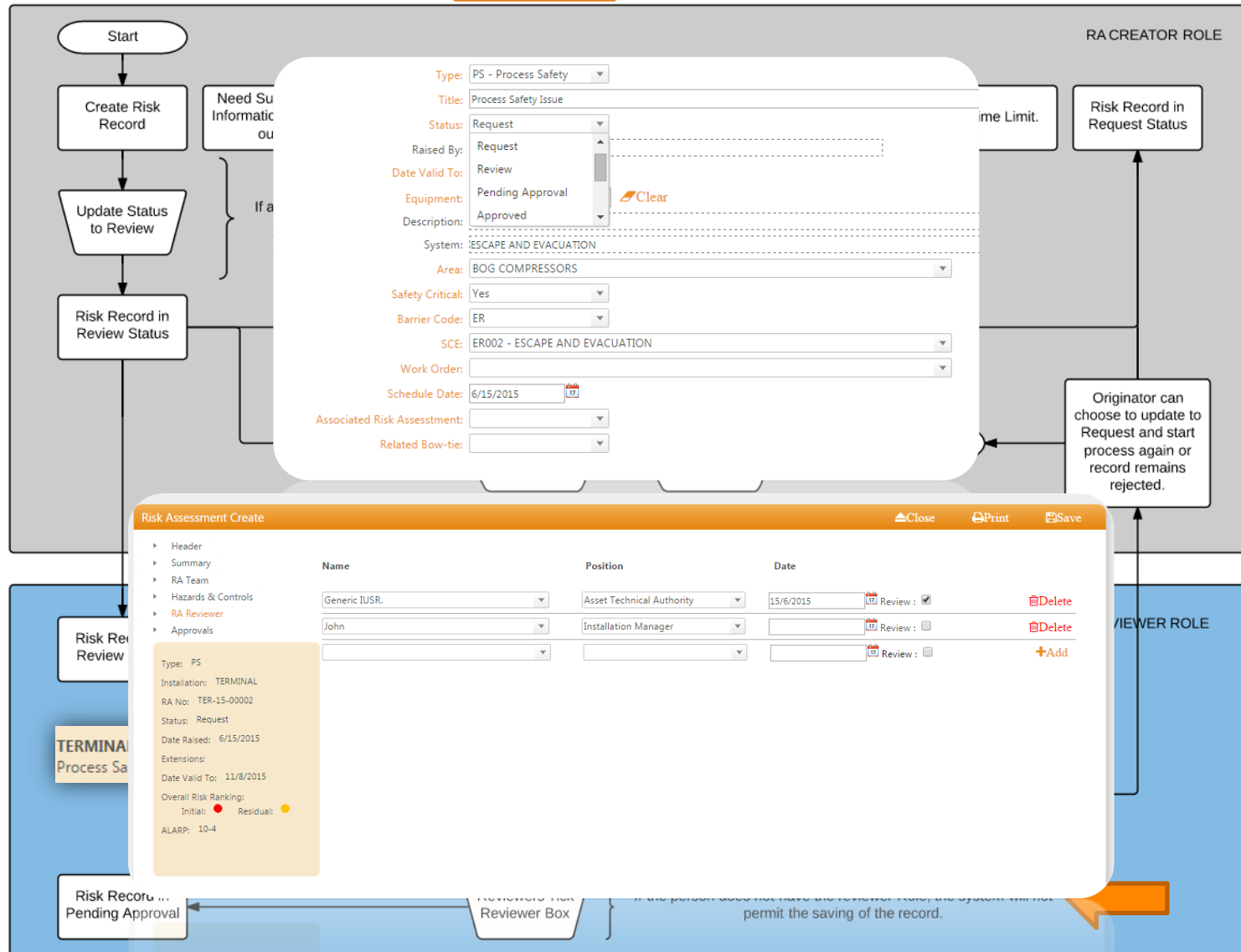
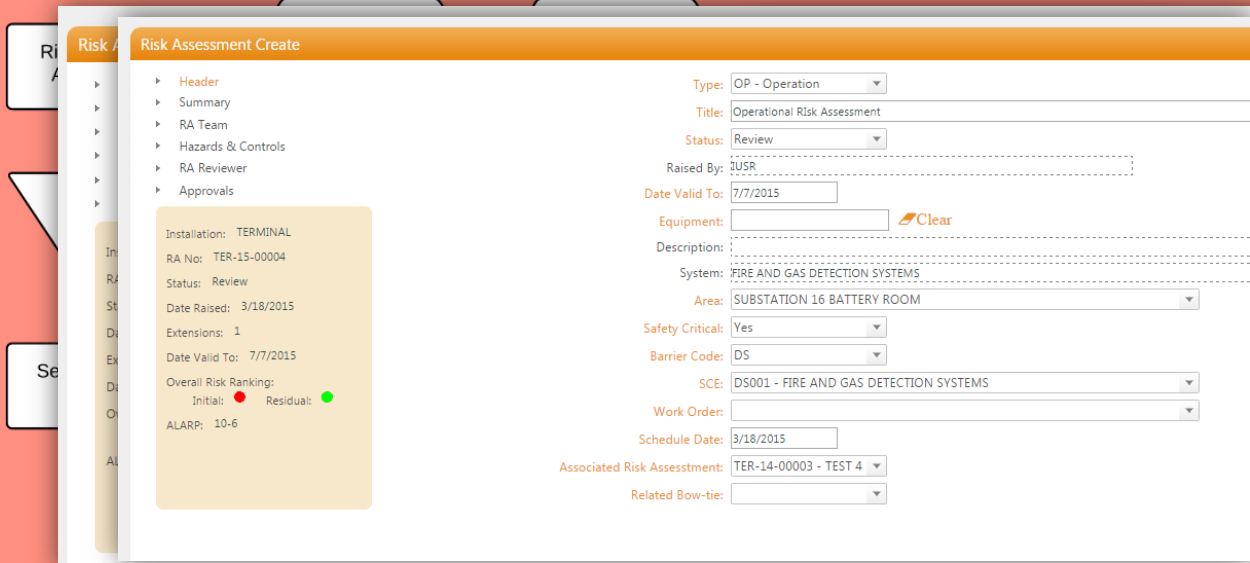# Work Flow (Pending Approval to Approved)

BG GROUP

Extending Overdue Record

- If a record is overdue, the record will appear in pending actions for all users associated with the site.

- The status will update to Overdue once the system date passes the Date Valid To on the risk record.

- The system will issue a reminder to the APPROVER based on the role associated to the site 7 days before it becomes overdue
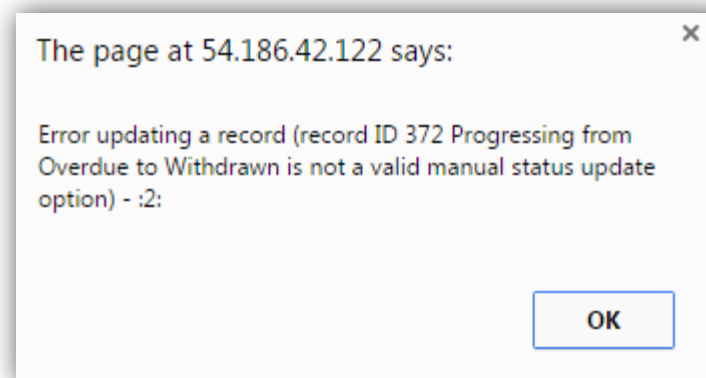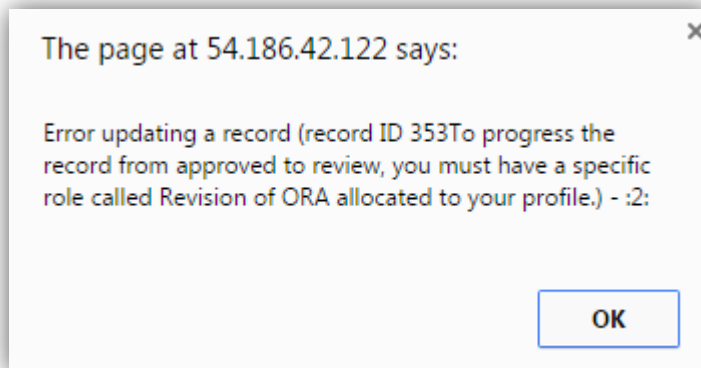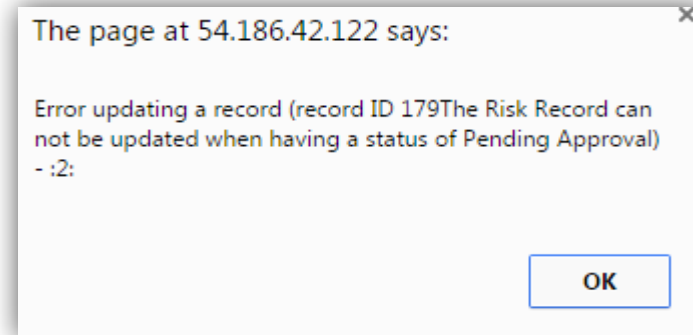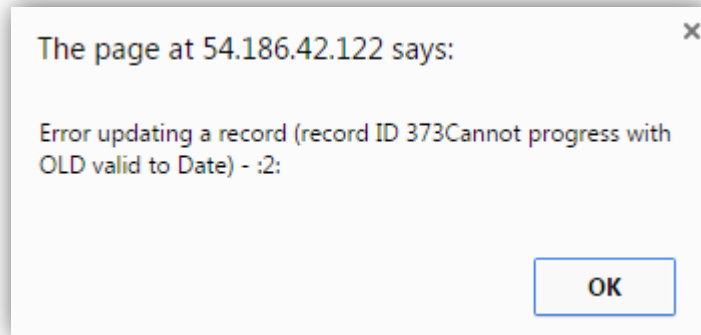
Closing a record

- The only way a record can be closed is via the action tracker. This means the users must open the action tracker and close the work off using this form. Closing down the action will then close down the original risk assessment and then refresh the barrier of this risk weighting.

- When user closes the record, date closed will be automatically updated based on the system date.

- Only a user with RA CLOSE can close down an action and consequently close down a risk record.

Common Messages

The page at 54.186.42.122 says:

Error updating a record (record ID 373Cannot progress with OLD valid to Date) - :2:

OK

The page at 54.186.42.122 says:

Error updating a record (record ID 179The Risk Record can not be updated when having a status of Pending Approval) - :2:

OK

The page at 54.186.42.122 says:

Error updating a record (record ID 353To progress the record from approved to review, you must have a specific role called Revision of ORA allocated to your profile.) - :2:

OK

The page at 54.186.42.122 says:

Error updating a record (record ID 372 Progressing from Overdue to Withdrawn is not a valid manual status update option) - :2:

OK

Questions