Kuka Disaster Recovery

You have had a disaster and the robot (or more specifically, the robot controller/Sunrise cabinet) is 'bricked'. The number of potential causes is almost endless, but here is one example that has happened:

A visiting researcher has tried to upload a Sunrise Workbench project, but they have been using an incompatible version of Sunrise Workbench.

Here are the disaster recovery steps:

1. Create a backup using the Kuka backup USB device and apply to the bricked cabinet.

2. Update the Robot Configuration using Sunrise Workbench (for example, if the kuka model has a different flange) - this involves editing the StationSetup.cat and syncing the change.

1   The Backup Method

1. Place the Kuka recovery USB device into a Windows machine, and launch RecoveryConfig.

2. Select the 'Configuration' icon.

3. Select 'Silent Mode', select 'Create image of disk' as the action, and 'USB stick' as the image.

4. Safely eject the USB.

The USB stick is now configured to obtain a backup.

1. Ensure that the known good Kuka is turned off.

2. Place the USB stick in the Sunrise cabinet and turn it on (its a good idea to attach a screen to see what is happening).

3. After about 10mins, the backup should be complete and the robot will automatically shut down.

The USB stick now contains a backup.

1. Place the Kuka recovery USB device into a Windows machine, and launch RecoveryConfig.

2. Select the 'Configuration' icon.

3. Select 'Silent Mode', select 'Restore image of disk' as the action, and 'USB stick' as the image.

4. Safely eject the USB.

The USB stick is now configured to restore a backup.

1. Ensure that the known good Kuka is turned off.

2. Place the USB stick in the Sunrise cabinet and turn it on (its a good idea to attach a screen to see what is happening).

3. After about 10mins, the Restore should be complete and the robot will automatically shut down.