ASSET DATA DICTIONARY DEFINITION DOCUMENT (AD4)
L7442 – HARMONIC FILTER

Document Number: **CRL1-XRL-Z3-ADDSD-CR001- 50548**

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1.0	24/11/14	[redacted]	[redacted]	[redacted]	First Issue
2.0	27-Aug-2015	[redacted]	[redacted]	[redacted]	Labelling Section Updated

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1 Introduction

Not Applicable

1.1 Asset Details

Class Code:	L7442
Class Name:	Harmonic Filter
Class Lineage:	Construction Products>Services>Electric Power and Lighting Services Products>Treatment devices>Harmonic Filter

1.2 Description

A Harmonic Filter is a device to eliminate the harmonic distortion caused by appliances. The Harmonic Filter is built using an array of capacitors, inductors, and resistors that deflect harmonic currents to the ground. These devices can also be referred to as line conditioners or power line conditioners and are intended to improve the quality of the delivered power to equipment.

Harmonic distortion is caused by equipment that are non-linear loads. These loads use current in a pulsing manner and at times feed harmonic currents back into the wiring.

1.3 Related Functions

All information on the configuration of asset classes (L-Class) to functions is contained within the latest revision of the Asset Data Dictionary Master Configuration document (eB ref: CRL1-XRL-Z3-ADDSD-CR001-50186)

2 Asset Tag Identification Rules

Assets will be identified as required by the Asset Identification Standard (CRL1-XRL-O6-STD-CR001-00031), in the following format:

<LCS Code>-<Function Code>-<Incremental number to ensure uniqueness>

e.g. C125-TSP-12345

Information and guidance on the standard naming convention for all asset classes is contained within the latest revision of the Asset Naming Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

2.1 Example Images

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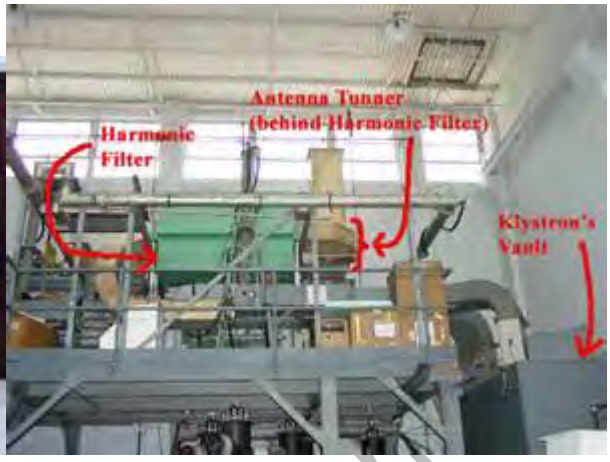

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3 Attributes

3.1 Generic Attributes

All Classes of assets will have a set of Generic Attributes for which data is collected without exception. Full details relating to these assets can be found at:

AD4 – Generic Attributes CRL1-XRL-Z3-ADDSD-CR001-50069

3.2 Class Specific Attributes

Below is a table of the further specific attributes which are associated with this asset class.

Attribute Name	Base Unit or Formula	Value Type (See Below)	Decimal Places (nu Only)	Defined Values List (pd only)	Description
Height (Metres)	Metres	NU	2		The height of the enclosure
Input Current (Amps)	Amps	NU	0		The input circuit current
Input Voltage (Volts)	Volts	NU	0		The input circuit voltage
Length (Metres)	Metres	NU	2		The length of the enclosure
MVA Rating (MVA)	MVA	NU	2		The MVA (Mega Volt Amp) rating of the Filter
Neutral Current (Amps)	Amps	NU	0		Transformer neutral current rating
Neutral Current Continuous (Amps)	Amps	NU	0		Transformer continuous neutral current rating
Width (Metres)	Metres	NU	2		The width of the enclosure

pd = Predefined List (Listed Values Only)
nu = Numeric (dp and number format can be stipulated)
ch = Free text (Max 255 Characters)
da = Date (dd-mm-yyyy)

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me = Memo (Free text 1GB Limit)

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4 Performance Data

This section is to be used to specify the performance data to be gathered from this Class of asset when in operation. To be populated once the performance measures have been agreed with the Infrastructure Managers.

5 Labelling

Information and guidance on the standard labelling convention for all asset classes is contained within the latest revision of the Asset Naming and Labelling Convention Document (eB ref: CRL1-XR1-Z3-ADDSD-CR001-50413).

6 Other Information

Not Applicable

7 Reference Material

- Asset Data Dictionary Master Configuration document - CRL1-XRL-Z3-ADDSD-CR001-50186
- Asset Identification Standard - CRL1-XRL-O6-STD-CR001-00031
- AD4 – Generic Attributes - CRL1-XRL-Z3-ADDSD-CR001-50069
- <ADD OTHER REFERENCE DOCUMENTS HERE>

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8 Crossrail Technical Approvals

Name	Role	Date
[redacted]	Lead Mechanical & Electrical Plant (MEP) Engineer	10-12-2014

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