**Frequency Response Auction Trial**

Appendix C – Low Frequency Static (LFS) Service

Testing Certificate

## Appendix C

Please use this test certificate format and submit to NGESO, along with the test data and CV of the ITE employed by the prospective response provider.

## Prospective Response Provider Company Details

|  |  |
| --- | --- |
| Prospective Response Provider Company name |  |
| Companies House number |  |
| Primary contact name(s) |  |
| Contact number(s) |  |
| Email address(es) |  |

## Contract Details

|  |  |
| --- | --- |
| Unique ID Code (provided by NGESO) |  |
| Service type | LFS |
| Asset owner |  |
| Asset owner Companies House number |  |
| Asset name |  |
| Asset type: Generation/Demand/Both? |  |
| Asset technology, e.g. diesel generator, battery etc |  |
| Unit make up, e.g. single or aggregated |  |
| Aggregation methodology (if appropriate) |  |
| Address (including post code) |  |
| Export/Import PAN/MPAN |  |
| Asset contact details |  |
| Test date |  |
| Effective from date |  |

## Static Service Details

|  |  |
| --- | --- |
|  |  |
| Contracted response time | 1 second |
| Contracted duration | 30 mins |
| Trigger Frequency Setting | 49.6Hz |

## Test Results

| Pass Criteria | Pass / Fail | Comment |
| --- | --- | --- |
| An acceptable frequency injection profile is used. | Pass / Fail |  |
| The relay operating point of the plant/unit(s) occurs at the correct contracted trigger frequency and within the permitted tolerance (±0.01Hz). | Pass / Fail | See Figure 1 for sample showing close up of the frequency at which relay operates |
| The response is sustained for 30 minutes. | Pass / Fail |  |
| The standard deviation of active power error over a 30 minute period does not exceed 2.5% of the contracted active power change. | Pass / Fail | Insert test SD value here |
| Response volume is assessed as the minimum response observed from 1 second to 30 minutes following relay trigger | Pass / Fail | Can be shown in Figure 2 below. |
| **Overall Test Result** | **Pass / Fail** | **<Confirm volume validated by test>** |

Figure 1 – Relay Operation (sample, to be replaced with test data)

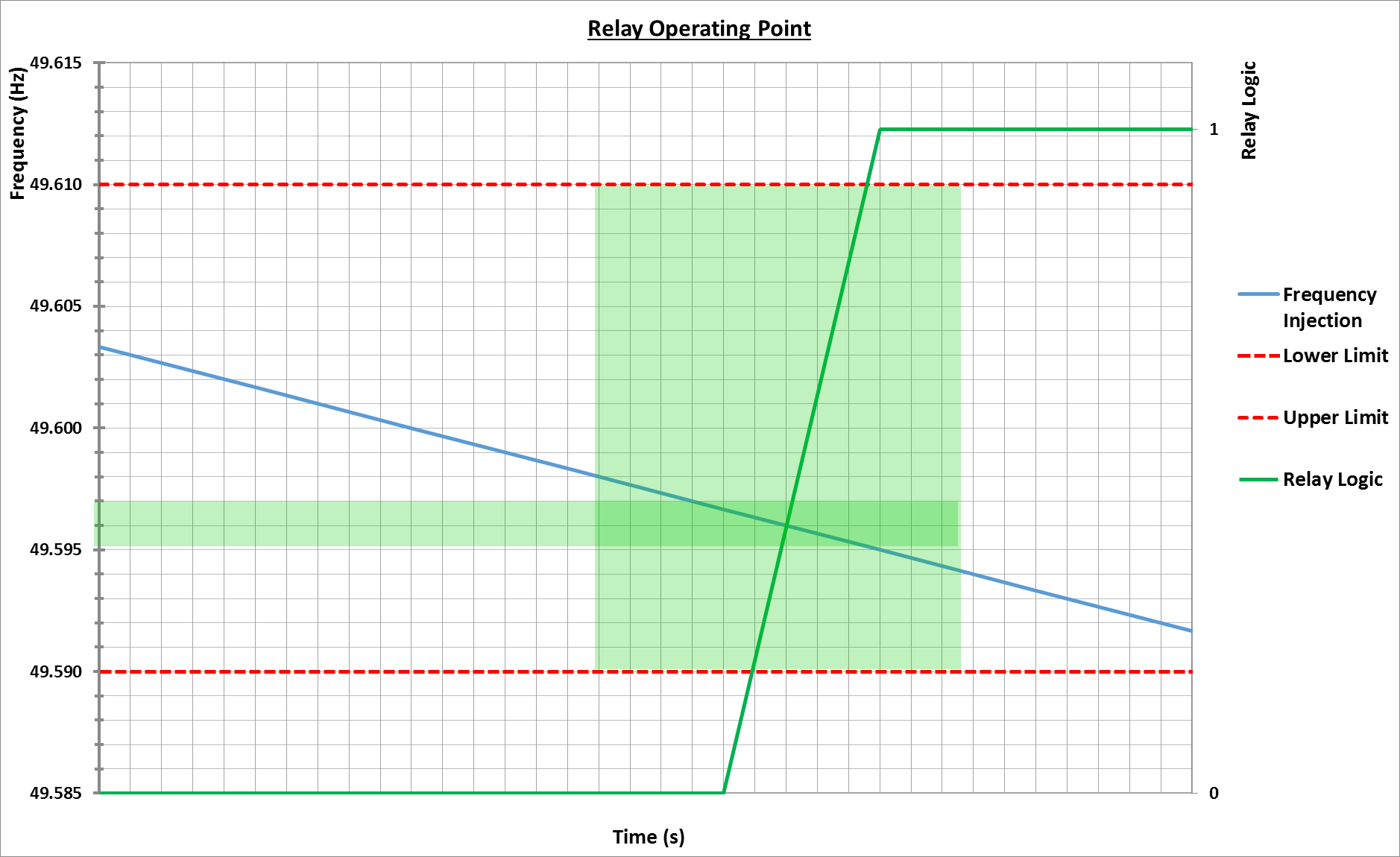
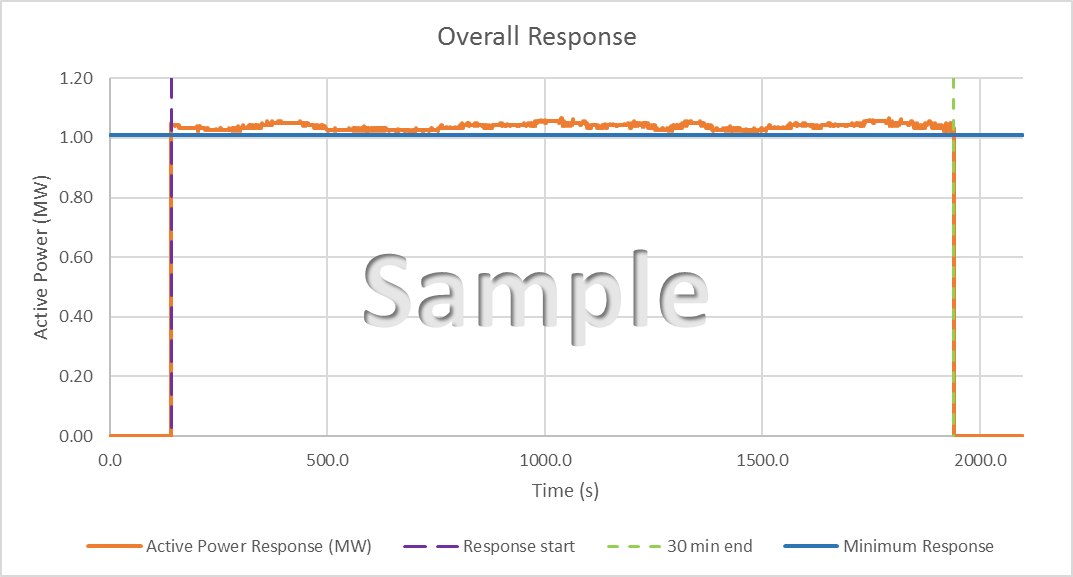


Figure 2 – Overall Response (sample, to be replaced with test data)



## Independent Technical Expert (ITE) Details

|  |  |
| --- | --- |
| Company name |  |
| Primary contact name |  |
| Contact number /s |  |
| Email address |  |
| **I / We confirm that I / We the following:**   1. **I/We am a/are Independent Technical Expert(s) (as defined in Appendix B of the NGESO’s prevailing Testing Guidelines;** 2. **I/We have carried out an assessment of the [asset] described above in accordance with the testing guidelines set out in the Testing Guidelines;** 3. **the above details are, to my/our best knowledge and belief, true, accurate, complete and not misleading; and** 4. **the CV attached of my/our experience is to my/our best knowledge and belief, true, accurate, complete and not misleading.** | |
| Signed: |  |
|  |  |
|  |  |