|  |
| --- |
| ${issueDate} |

${secondConsultantCc}

**${secondConsultantCompany}**

${secondConsultantTitle} ${secondConsultantSurname}

${secondConsultantEmail}

|  |  |  |
| --- | --- | --- |
| By Post and by Email: ${firstConsultantEmail} | | |
| ${firstConsultantTitle} ${firstConsultantSurname}  ${firstConsultantCompany} | |
| ${firstConsultantCompanyAdd1}  ${firstConsultantCompanyAdd2}  ${firstConsultantCompanyAdd3}  ${firstConsultantCompanyAdd4}  Hong Kong | |
| Our Ref | 248-17/Fax/F/${faxRefNo}/${faxDate} | | |
| Your Ref |  | | |

Dear ${firstConsultantTitle} ${firstConsultantSurname},

|  |
| --- |
| **Power Quality (PQ) Site Walk for the Project,**  **“${projectTitle}”** |

Please be advised that a joint PQ Site Walk to your plant with ${firstConsultantCompany} and CLP Power was completed on ${siteVisitDate}. Please find the assessment results on the critical equipment during the PQ site walk as shown in Attachment 1 for your reference to combat the PQ issues and alleviate the impact. The salient points for different concerned equipment are summarized as follows:

${content1}

${content2}

${content3}

${content4}

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**Attachment 1 – Table 1**

**Summary of Power Quality (PQ) Site Walk for Customer Designs on Voltage Dip Ride-thru and Harmonics Emission**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Project Name:**  ${projectTitle} | | | | **Company / Site Address:**  ${firstConsultantCompanyAdd1}, ${firstConsultantCompanyAdd2}, ${firstConsultantCompanyAdd3}, ${firstConsultantCompanyAdd4} | |
| **Planned Commissioning Date:**  ${commissionDate} | | **Reply Slip’s Returned Date (if any):**  ${replySlipReturnDate} | | **PQ Site Walk’s Date:**  ${siteVisitDate} | **Parties jointed for PQ site walk:**  ${firstConsultantCompany} and CLP Power |
| **Critical Equipment in Customer’s Premises** | **Component** | **Designed Solutions Stated in Returned Reply Slip (if any)** | | **Findings during**  **PQ Site Walk** | **Any further PQ recommendations** |
| **Level\*** | **Designed Solution** |
| ${bmsYN} BMS | ${bmsSCCYesNo} Server or central computer | I | ${bmsSCC} | ${bmsSCCFind} | ${bmsSCCRec} |
| ${bmsDdcYN} Distributed Digital Control (DDC) | II | ${bmsDdc} | ${bmsDdcFind} | ${bmsDdcRec} |
| Supplement (if any):  ${bmsSupplement} | | | | |
| ${chgSchYN} Changeover Scheme | ${chgSchCtlYN} Controls, relays, main contactor | N/A | ${chgSchCtl} | ${changeoverSchemeFinding1}  ${changeoverSchemeFinding2} | ${changeoverSchemeRecommend1}  ${changeoverSchemeRecommend2} |
| ${chgSchUvYN} Under-voltage (UV) relay | II | ${chgSchUv} |
| Supplement (if any):  ${changeoverSchemeSupplement} | | | | |
| ${chilPltYN} Chiller Plant | ${chilPltAhuYN} AHU, chilled/ condenser water pump | III | ${chilPltAhu} | ${chilPltAhuFind} | ${chilPltAhuRec} |
| ${chilPltChilYN} Chiller | III | ${chilPltChil} | ${chilPltChilFind} | ${chilPltChilRec} |
| Supplement (if any):  ${chillerPlantSupplement} | | | | |
| ${escYN} Escalator | ${escBraSysYN} Braking system | II | ${escBraSys} | ${escBraSysFind} | ${escBraSysRec} |
| ${escCtlYN} Controls | NA | ${escCtl} | ${escCtlFind} | ${escCtlRec} |
| Supplement (if any):  ${escalatorSupplement} | | | | |
| ${hidYN} LED Lighting | ${hidBallYN} Ballast | NA | ${hidMit} | ${hidBallFind} | ${hidBallRec} |
| ${hidAddonYN} Add-on protection | NA | ${hidAddonFind} | ${hidAddonRec} |
| Supplement (if any):  ${hidLampSupplement} | | | | |
| ${liftYN} Lift | ${liftOptYN} Controls | II | ${liftOpt} | ${liftOptFind} | ${liftOptRec} |
| ${liftMainYN} Main Supply | NA | ${liftMainFind} | ${liftMainRec} |
| Supplement (if any):  ${liftSupplement} | | | | |
| ${senYN} Sensitive   Machine | ${senMedYN} Medical equipment, Controls, PLC | I | ${senMedMit} | ${senMedMitFind} | ${senMedMitRec} |
| Supplement (if any):  ${sensitiveMachineSupplement} | | | | |
| ${telYN} Telecom, IT Equipment, Data Centre & Harmonic | ${telSCYN} Server or computer | II | ${telSC} | ${telSCFind} | ${telSCRec} |
| ${telPerYN} Peripherals such as modem, router | II | ${telPer} | ${telPerFind} | ${telPerRec} |
| ${telHarYN} Harmonic emission | NA | ${telHar} | ${telHarFind} | ${telHarRec} |
| Supplement (if any):  ${telecomMachineSupplement} | | | | |
| ${airConYN} Air-conditioners | ${airConMicbYN} Protection Facilities of Main Incoming Circuit Breaker | NA | ${airConMicb} | ${airConMicbFind} | ${airConMicbRec} |
| ${airConForYN} Load forecasting for air-conditioning load | NA | ${airConFor} | ${airConForFind} | ${airConForRec} |
| ${airConTypYN} Type of Air-conditioner | NA | ${airConTyp} | ${airConTypFind} | ${airConTypRec} |
| Supplement (if any):  ${airConditionersSupplement} | | | | |
| ${nonYN} Buildings with high penetration of energy efficient equipment, e.g. LED lighting, VSD Air Conditioner, and other non-linear loads etc. | ${nonHarYN} Harmonic emission | NA | ${nonHar} | ${nonHarFind} | ${nonHarRec} |
| Supplement (if any):  ${nonLinearLoadSupplement} | | | | |
| ${renewYN} Renewable Energy, e.g. photovoltaic or wind  energy system etc. | ${renewCtlYN} Inverter, controls | NA | ${renewCtl} | ${renewCtlFind} | ${renewCtlRec} |
| ${renewHarYN} Harmonic emission | NA | ${renewHar} | ${renewHarFind} | ${renewHarRec} |
| Supplement (if any):  ${renewableEnergySupplement} | | | | |
| ${evYN} EV charger system | ${evChgYN} Controls | NA | ${evChg} | ${evChgFind} | ${evChgRec} |
| ${evHarYN} Harmonic emission | NA | ${evHar} | ${evHarFind} | ${evHarRec} |
| Supplement (if any):  ${evChargerSystemSupplement} | | | | |

Level\*: Level I – fully protected , Level II – partially protected , Level III – auto re-start or backup