# Evaluation Report of Load Serving Entities' Compliance with 2019 Local and System Resource Adequacy Requirements (November 13, 2018)

The ISO has reviewed and evaluated the aggregate 2019 annual Resource Adequacy (RA) Plans of load serving entities (LSEs) received as of November 4, 2018 and to assess compliance with annual Local, System and Flex Resource Adequacy requirements. In addition, the ISO has evaluated the effectiveness of the Resource Adequacy Resources and RMR resources that have been procured by LSEs to assess compliance in Local Capacity Areas with the Local Capacity Technical Study criteria as required by Tariff Sections 43.2.1.1 and 43.2.2. The ISO's evaluation has identified individual LSE and collective capacity deficiencies in several Local Capacity Areas in the PG&E TAC Areas. The ISO's evaluation shows aggregate compliance with the LCR criteria in the SCE, SDG&E, VEA and MWD TAC Areas. A deficiency occurs when the aggregate portfolio of Resource Adequacy Resources that has been procured, including RMR resources, fails to satisfy the adopted reliability criteria in a Local Capacity Area. The tariff provides an opportunity for LSEs to cure individual or collective deficiencies before the ISO can engage in any backstop procurement.

The ISO notes that the deficient LSEs are not required to purchase capacity from specific units, which are identified as being able to satisfy the LCR criteria for purposes of meeting individual deficiencies. LSEs (including those deficient at this time) can purchase capacity from any resources with a local attribute in the TAC Area. However, to the extent that the aggregate LSE showings do not comprise the right mix of resources that meet the LCR criteria and ISO effectiveness needs, a deficiency may exist that would cause the ISO to procure individual and/or collective backstop capacity.

## System Resource Adequacy requirements

The ISO's evaluation shows aggregate compliance with the year ahead RA requirement (90% of the monthly resource adequacy requirement) for the five summer months.

## Flex Resource Adequacy requirements

The ISO's evaluation shows aggregate compliance with the year ahead flex RA requirement for all months except November and December. Currently there is a flex shortage in December of 146.32 MW and flex shortage for November of 12.93 MW.

## Local Resource Adequacy requirements

The LSEs year-ahead RA showings evaluation was performed with the same assumptions as the 2018 LCR report that was used to give LSEs their LCR allocations, namely the LCR report dated May 15, 2018 http://www.caiso.com/Documents/Final2019LocalCapacityTechnicalReport.pdf. The LSEs and suppliers are subject to the RA replacement requirement and are subject to ISO capacity procurement mechanism back stop authority as approved by FERC.

### SCE TAC Area

The ISO's evaluation shows aggregate compliance with the LCR criteria.

### SDG&E TAC Area

The ISO's evaluation shows aggregate compliance with the LCR criteria.

**PG&E TAC Area**

1. Remaining technical need in the PG&E TAC Area totals 219.73 MW.
2. At this time, individual LSE deficiencies in the PG&E TAC Area total 105.16 MW.
3. At this time, the collective deficiency can only be given as a range (see page 1 paragraph 2 above) from a minimum deficiency of 114.57 MW to a maximum deficiency of 219.73 MW. If the individual deficient LSE purchase capacity from local resources to fill their shortfall and at the same time those resources meet the remaining technical need than collective deficiency will be minimized, but if not, then the collective deficiency could reach the maximum.

*Need explanation by non-compliant area(s) and sub-area(s):*

*Humboldt Area:* an additional 124.45 MW is needed, from the relevant resources listed in Appendix A, in order to satisfy the LCR criteria. The entire remaining technical need is driven by overall area need:

Humboldt – with remaining need of 124.45 MW

*Sierra Area:* an additional 71.37 MW is needed, from the relevant resources listed in Appendix A, in order to satisfy the LCR criteria. The entire remaining technical need is driven by one sub-area:

South of Palermo – with remaining need of 71.37 MW

*Stockton Area:* an additional 21.43 MW is needed, from the relevant resources listed in Appendix A, in order to satisfy the LCR criteria. The remaining technical need is driven by two sub-areas:

Tesla-Bellota – with remaining need of 16.53 MW
Lockeford – with remaining need of 4.80 MW

*Fresno Area:* an additional 2.58 MW is needed, from the relevant resources listed in Appendix A, in order to satisfy the LCR criteria. The remaining technical need is driven by three sub-areas:

Reedley – with remaining need of 2.58 MW

**Process for curing a Collective Deficiency:**

For purposes of curing a collective deficiency, a Scheduling Coordinator for an LSE may submit a revised annual Resource Adequacy Plan by **December 14, 2018**, to demonstrate the procurement of additional Local Capacity Area Resources consistent with this notice in order to resolve the collective deficiency as provided by Tariff Section 43.2.2.1. Any Scheduling Coordinator for an LSE that provides such additional Local Capacity Area Resources consistent with this market notice shall have its share of any backstop procurement costs reduced on a proportionate basis in accordance with the Tariff. If the full quantity of capacity in the deficient Local Capacity Areas is not reported to the ISO under revised annual Resource Adequacy Plans, the ISO may engage in backstop procurement sufficient to alleviate the collective deficiency.

Scheduling Coordinators for LSEs are further reminded of the ISO BPM Appeals Committee's Decision on Appeal of PRR 854:

> *"While this stakeholder process is underway, the ISO will continue to conduct its Local Capacity Technical Study as required by Section 40.3.1.1 of its tariff, but the ISO will use its discretion not to exercise its Capacity Procurement Mechanism authority to address annual resource deficiencies that are directly attributable to a discrepancy between a local regulatory authority's resource adequacy counting rules for demand response resources and ISO's Local Capacity Technical Study."*

## Appendix A – List of physical resources by TAC area, local area, sub-area and market ID

| TAC Area | Mkt./Physical Res. ID | Physical Resource Name | NQC (MW) | Available (MW) | Local Area | LCR Need |
|---|---|---|---|---|---|---|
| PG&E | DINUBA_6_UNIT | Dinuba Generation Project | 2.58 | 2.58 | Fresno | Reedley |
| PG&E | FAIRHV_6_UNIT | Fairhaven Power Co. | 15.49 | 4.32 | Humboldt | Humboldt |
| PG&E | HUMBPP_1_UNITS3 | Humboldt Bay Gen. Station 3 | 65.08 | 65.08 | Humboldt | Humboldt |
| PG&E | HUMBPP_6_UNITS | Humboldt Bay Gen. Station 1 | 97.62 | 97.62 | Humboldt | Humboldt |
| PG&E | KEKAWK_6_UNIT | Sts Hydropower Ltd. (Kekawaka) | 2.74 | 2.74 | Humboldt | Humboldt |
| PG&E | DAVIS_7_MNMETH | MM Yolo Power LLC | 1.52 | 1.52 | Sierra | South of Palermo |
| PG&E | FMEADO_6_HELLHL | FMEADO_6_HELLHL | 0.37 | 0.37 | Sierra | South of Palermo |
| PG&E | HAYPRS_6_QFUNTS | Haypress Hydro QF Units | 0.09 | 0.09 | Sierra | South of Palermo |
| PG&E | HIGGNS_7_QFUNTS | HIGGNS_7_QFUNTS | 0.22 | 0.22 | Sierra | South of Palermo |
| PG&E | LODIEC_2_PL1X2 | Lodi Energy Center | 302.58 | 57.40 | Sierra | South of Palermo |
| PG&E | OXBOW_6_DRUM | Oxbow Hydro | 3.37 | 3.37 | Sierra | South of Palermo |
| PG&E | PLACVL_1_CHILIB | Chili Bar Hydro | 8.40 | 8.40 | Sierra | South of Palermo |
| PG&E | LODI25_2_UNIT 1 | Lodi Gas Turbine | 23.80 | 4.80 | Stockton | Lockeford |
| PG&E | PHOENX_1_UNIT | Phoenix PH | 0.82 | 0.82 | Stockton | Tesla-Bellota |
| PG&E | STANIS_7_UNIT 1 | Stanislaus Hydro | 91.00 | 15.20 | Stockton | Tesla-Bellota |
| PG&E | STNRES_1_UNIT | Covanta Stanislaus | 19.04 | 0.04 | Stockton | Tesla-Bellota |
| PG&E | VLYHOM_7_SSJID | Woodward Power Plant | 0.57 | 0.57 | Stockton | Tesla-Bellota |

## Appendix B – List of physical resources available to meet the highest Flex deficiency

| Mkt./Physical Res. ID | December EFC (MW) | Available (MW) |
|---|---|---|
| ADLIN_1_UNITS | 8.00 | 8.00 |
| AGRICO_7_UNIT | 49.09 | 31.59 |
| ALAMO_6_UNIT | 9.93 | 9.93 |
| ALMEGT_1_UNIT 1 | 23.40 | 11.10 |
| ALMEGT_1_UNIT 2 | 23.50 | 16.38 |
| ANAHM_2_CANYN1 | 49.40 | 49.40 |
| ANAHM_2_CANYN2 | 48.00 | 48.00 |
| ANAHM_2_CANYN3 | 48.00 | 18.00 |
| ANAHM_2_CANYN4 | 49.40 | 27.40 |
| ANAHM_7_CT | 2.81 | 2.81 |
| BALCHS_7_UNIT 3 | 54.60 | 54.60 |
| BARRE_6_PEAKER | 47.00 | 47.00 |
| BCTSYS_5_PWXDYN | 428.00 | 428.00 |
| BEARDS_7_UNIT 1 | 3.91 | 3.91 |
| BIGCRK_2_EXESWD | 773.60 | 773.60 |
| BLCKBT_2_STONEY | 2.51 | 2.51 |
| BOGUE_1_UNITA1 | 47.60 | 47.60 |
| BUCKBL_2_PL1X3 | 365.00 | 365.00 |
| BUCKCK_7_PL1X2 | 57.25 | 57.25 |
| CAMPFW_7_FARWST | 2.28 | 2.28 |
| CARBOU_7_PL2X3 | 49.00 | 49.00 |
| CENTER_2_RHONDO | 1.91 | 1.91 |
| CENTER_6_PEAKER | 47.00 | 47.00 |
| CHILLS_7_UNITA1 | 1.61 | 1.61 |
| CHINO_6_SMPPAP | 22.78 | 22.78 |
| CHINO_7_MILIKN | 1.32 | 1.32 |
| CHWCHL_1_UNIT | 48.00 | 48.00 |
| COLGAT_7_UNIT 1 | 148.24 | 87.24 |
| COLGAT_7_UNIT 2 | 148.21 | 51.00 |
| COLVIL_7_PL1X2 | 246.86 | 173.59 |
| CONTRL_1_POOLE | 1.09 | 1.09 |
| CONTRL_1_RUSHCK | 4.17 | 4.17 |
| CSCCOG_1_UNIT 1 | 6.00 | 6.00 |
| CSCGNR_1_UNIT 2 | 24.00 | 10.46 |
| CSTRVL_7_PL1X2 | 3.73 | 3.73 |
| DELTA_2_PL1X4 | 744.29 | 541.29 |
| DONNLS_7_UNIT | 66.81 | 66.81 |
| DREWS_6_PL1X4 | 36.00 | 9.00 |

Appendix B - List of physical resources available to meet the highest Flex deficiency

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|---|---|---|
| DUANE_1_PL1X3 | 137.80 | 137.80 |
| DVLCYN_1_UNITS | 157.24 | 100.77 |
| EASTWD_7_UNIT | 199.00 | 199.00 |
| ELKCRK_6_STONYG | 0.90 | 0.90 |
| ELKHIL_2_PL1X3 | 224.00 | 224.00 |
| ELSEGN_2_UN1011 | 263.00 | 156.59 |
| ENCINA_7_EA2 | 84.00 | 84.00 |
| ENCINA_7_EA3 | 90.00 | 90.00 |
| ENCINA_7_EA4 | 280.00 | 280.00 |
| ENCINA_7_EA5 | 310.00 | 310.00 |
| ENCINA_7_GT1 | 14.50 | 14.50 |
| ETIWND_6_GRPLND | 46.00 | 46.00 |
| EXCHEC_7_UNIT 1 | 90.72 | 90.72 |
| GATWAY_2_PL1X3 | 452.00 | 114.58 |
| GEYS11_7_UNIT11 | 46.00 | 3.00 |
| GEYS12_7_UNIT12 | 28.00 | 24.00 |
| GEYS13_7_UNIT13 | 34.00 | 18.00 |
| GEYS14_7_UNIT14 | 28.00 | 28.00 |
| GEYS16_7_UNIT16 | 24.00 | 24.00 |
| GEYS17_7_UNIT17 | 34.00 | 34.00 |
| GEYS18_7_UNIT18 | 23.00 | 23.00 |
| GEYS20_7_UNIT20 | 18.00 | 18.00 |
| GILROY_1_UNIT | 25.00 | 25.00 |
| GILRPP_1_PL1X2 | 95.20 | 95.20 |
| GILRPP_1_PL3X4 | 46.20 | 46.20 |
| GLNARM_2_UNIT 5 | 65.00 | 65.00 |
| GLNARM_7_UNIT 1 | 22.07 | 4.94 |
| GLNARM_7_UNIT 2 | 22.30 | 22.30 |
| GLNARM_7_UNIT 3 | 44.83 | 27.83 |
| GLNARM_7_UNIT 4 | 42.42 | 25.42 |
| GRNLF1_1_UNITS | 4.20 | 4.20 |
| HAASPH_7_PL1X2 | 144.00 | 144.00 |
| HELMPG_7_UNIT 1 | 407.00 | 407.00 |
| HELMPG_7_UNIT 3 | 404.00 | 62.08 |
| HENRTA_6_UNITA2 | 49.42 | 49.42 |
| HIDSRT_2_UNITS | 630.00 | 118.00 |
| HINSON_6_LBECH1 | 65.00 | 2.00 |
| HINSON_6_LBECH2 | 65.00 | 13.00 |
| HINSON_6_LBECH3 | 65.00 | 2.00 |
| HINSON_6_LBECH4 | 65.00 | 2.00 |
| HYTTHM_2_UNITS | 98.00 | 98.00 |
| INDIGO_1_UNIT 1 | 42.00 | 42.00 |
| INDIGO_1_UNIT 2 | 42.00 | 42.00 |

Appendix B - List of physical resources available to meet the highest Flex deficiency

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|---|---|---|
| INLDEM_5_UNIT 1 | 195.00 | 195.00 |
| INLDEM_5_UNIT 2 | 195.00 | 195.00 |
| INTKEP_2_UNITS | 307.00 | 307.00 |
| INTMNT_3_ANAHEIM | 236.00 | 236.00 |
| INTMNT_3_RIVERSIDE | 137.00 | 137.00 |
| KELSO_2_UNITS | 198.03 | 198.03 |
| KINGRV_7_UNIT 1 | 51.20 | 51.20 |
| KNGCTY_6_UNITA1 | 44.60 | 44.60 |
| LAKHDG_6_UNIT 1 | 20.00 | 20.00 |
| LAKHDG_6_UNIT 2 | 20.00 | 20.00 |
| LAPLMA_2_UNIT 1 | 119.80 | 119.80 |
| LAPLMA_2_UNIT 2 | 120.20 | 120.20 |
| LAPLMA_2_UNIT 3 | 126.15 | 126.15 |
| LAPLMA_2_UNIT 4 | 35.00 | 35.00 |
| LARKSP_6_UNIT 1 | 46.00 | 46.00 |
| LARKSP_6_UNIT 2 | 46.00 | 46.00 |
| LAROA2_2_UNITA1 | 161.00 | 161.00 |
| LASSEN_6_UNITS | 18.00 | 18.00 |
| LEBECS_2_UNITS | 659.47 | 385.47 |
| LECEF_1_UNITS | 255.84 | 250.84 |
| LMEC_1_PL1X3 | 371.29 | 26.22 |
| LODI25_2_UNIT 1 | 23.80 | 21.25 |
| LODIEC_2_PL1X2 | 136.85 | 74.09 |
| MALAGA_1_PL1X2 | 96.00 | 9.00 |
| MCSWAN_6_UNITS | 9.60 | 9.60 |
| MDFKRL_2_PROJCT | 210.00 | 62.00 |
| MERCFL_6_UNIT | 3.36 | 3.36 |
| METEC_2_PL1X3 | 413.16 | 232.16 |
| MIRLOM_6_PEAKER | 46.00 | 46.00 |
| MNDALY_6_MCGRTH | 47.20 | 47.20 |
| MOJAVE_1_SIPHON | 8.70 | 0.90 |
| MOSSLD_2_PSP1 | 368.98 | 88.98 |
| MOSSLD_2_PSP2 | 370.00 | 15.00 |
| MSQUIT_5_SERDYN | 625.00 | 625.00 |
| NAROW2_2_UNIT | 29.71 | 29.71 |
| NCPA_7_GP1UN1 | 11.00 | 9.46 |
| NCPA_7_GP1UN2 | 8.00 | 6.65 |
| NCPA_7_GP2UN4 | 37.73 | 31.37 |
| OAK C_7_UNIT 1 | 55.00 | 55.00 |
| OAK C_7_UNIT 2 | 55.00 | 55.00 |
| OAK C_7_UNIT 3 | 55.00 | 55.00 |
| OLINDA_2_COYCRK | 3.13 | 3.13 |
| ORMOND_7_UNIT 1 | 641.27 | 641.27 |

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|---|---|---|
| ORMOND_7_UNIT 2 | 725.00 | 25.00 |
| OTAY_6_PL1X2 | 35.50 | 35.50 |
| OTMESA_2_PL1X3 | 448.60 | 448.60 |
| PANDOL_6_UNIT | 33.93 | 33.93 |
| PARDEB_6_UNITS | 15.00 | 15.00 |
| PGCC_1_PDRP02 | 3.00 | 3.00 |
| PGCC_1_PDRP04 | 1.00 | 1.00 |
| PGCC_1_PDRP05 | 0.40 | 0.40 |
| PGCC_1_PDRP08 | 0.99 | 0.99 |
| PGCC_1_PDRP12 | 0.99 | 0.99 |
| PGCC_1_PDRP13 | 0.99 | 0.99 |
| PGEB_2_PDRP01 | 1.00 | 1.00 |
| PGEB_2_PDRP02 | 0.10 | 0.10 |
| PGEB_2_PDRP03 | 0.10 | 0.10 |
| PGEB_2_PDRP04 | 4.00 | 4.00 |
| PGEB_2_PDRP05 | 5.00 | 5.00 |
| PGEB_2_PDRP06 | 0.70 | 0.70 |
| PGEB_2_PDRP07 | 0.50 | 0.50 |
| PGEB_2_PDRP08 | 1.00 | 1.00 |
| PGEB_2_PDRP09 | 1.00 | 1.00 |
| PGEB_2_PDRP10 | 1.00 | 1.00 |
| PGEB_2_PDRP11 | 0.20 | 0.20 |
| PGEB_2_PDRP21 | 0.99 | 0.99 |
| PGEB_2_PDRP22 | 0.99 | 0.99 |
| PGEB_2_PDRP23 | 0.99 | 0.99 |
| PGEB_2_PDRP24 | 0.99 | 0.99 |
| PGEB_2_PDRP25 | 0.99 | 0.99 |
| PGEB_2_PDRP26 | 0.99 | 0.99 |
| PGEB_2_PDRP27 | 0.99 | 0.99 |
| PGEB_2_PDRP28 | 0.99 | 0.99 |
| PGEB_2_PDRP29 | 0.99 | 0.99 |
| PGEB_2_PDRP30 | 0.99 | 0.99 |
| PGEB_2_PDRP31 | 0.99 | 0.99 |
| PGEB_2_PDRP34 | 0.99 | 0.99 |
| PGEB_2_PDRP35 | 0.99 | 0.99 |
| PGEB_2_PDRP36 | 0.99 | 0.99 |
| PGEB_2_PDRP37 | 0.99 | 0.99 |
| PGEB_2_RDRR08 | 1.90 | 1.90 |
| PGF1_2_PDRP03 | 2.00 | 2.00 |
| PGF1_2_PDRP04 | 4.00 | 4.00 |
| PGF1_2_PDRP07 | 0.50 | 0.50 |
| PGF1_2_PDRP08 | 4.30 | 4.30 |
| PGF1_2_PDRP09 | 1.20 | 1.20 |

| | | |
|---|---|---|
| PGF1_2_PDRP10 | 0.30 | 0.30 |
| PGF1_2_PDRP11 | 3.00 | 3.00 |
| PGF1_2_PDRP16 | 0.99 | 0.99 |
| PGF1_2_PDRP17 | 0.99 | 0.99 |
| PGF1_2_PDRP18 | 0.99 | 0.99 |
| PGF1_2_PDRP19 | 0.99 | 0.99 |
| PGF1_2_PDRP20 | 0.99 | 0.99 |
| PGF1_2_PDRP21 | 0.99 | 0.99 |
| PGF1_2_PDRP24 | 0.99 | 0.99 |
| PGF1_2_PDRP25 | 0.99 | 0.99 |
| PGF1_2_PDRP26 | 0.99 | 0.99 |
| PGF1_2_PDRP27 | 0.99 | 0.99 |
| PGF1_2_PDRP28 | 0.99 | 0.99 |
| PGF1_2_PDRP29 | 0.99 | 0.99 |
| PGF1_2_PDRP30 | 0.99 | 0.99 |
| PGF1_2_PDRP34 | 0.20 | 0.20 |
| PGF1_2_RDRR05 | 0.90 | 0.90 |
| PGF1_2_RDRR06 | 1.60 | 1.60 |
| PGF1_2_RDRR07 | 3.00 | 3.00 |
| PGFG_1_PDRP03 | 0.60 | 0.60 |
| PGFG_1_PDRP05 | 1.00 | 1.00 |
| PGFG_1_PDRP06 | 0.30 | 0.30 |
| PGFG_1_PDRP13 | 0.99 | 0.99 |
| PGFG_1_PDRP14 | 0.99 | 0.99 |
| PGFG_1_PDRP15 | 0.99 | 0.99 |
| PGFG_1_RDRR03 | 0.50 | 0.50 |
| PGHB_6_PDRP01 | 0.70 | 0.70 |
| PGHB_6_PDRP02 | 1.00 | 1.00 |
| PGHB_6_PDRP04 | 0.50 | 0.50 |
| PGHB_6_PDRP05 | 0.99 | 0.99 |
| PGHB_6_PDRP06 | 0.99 | 0.99 |
| PGKN_2_PDRP02 | 4.00 | 4.00 |
| PGKN_2_PDRP06 | 0.99 | 0.99 |
| PGKN_2_PDRP07 | 0.99 | 0.99 |
| PGKN_2_PDRP08 | 0.99 | 0.99 |
| PGKN_2_PDRP09 | 0.99 | 0.99 |
| PGNB_2_PDRP01 | 0.20 | 0.20 |
| PGNB_2_PDRP02 | 1.00 | 1.00 |
| PGNB_2_PDRP03 | 3.00 | 3.00 |
| PGNB_2_PDRP05 | 0.20 | 0.20 |
| PGNB_2_PDRP12 | 0.99 | 0.99 |
| PGNB_2_PDRP15 | 0.99 | 0.99 |
| PGNB_2_RDRR03 | 1.10 | 1.10 |

Appendix B - List of physical resources available to meet the highest Flex deficiency

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|---|---|---|
| PGNC_1_PDRP01 | 1.00 | 1.00 |
| PGNC_1_PDRP04 | 0.99 | 0.99 |
| PGNC_1_PDRP05 | 0.99 | 0.99 |
| PGNP_2_PDRP01 | 0.40 | 0.40 |
| PGNP_2_PDRP02 | 4.00 | 4.00 |
| PGNP_2_PDRP08 | 0.99 | 0.99 |
| PGNP_2_PDRP09 | 0.99 | 0.99 |
| PGNP_2_PDRP10 | 0.99 | 0.99 |
| PGNP_2_PDRP11 | 0.99 | 0.99 |
| PGNP_2_PDRP16 | 0.99 | 0.99 |
| PGNP_2_PDRP17 | 0.99 | 0.99 |
| PGNP_2_PDRP18 | 0.99 | 0.99 |
| PGNP_2_RDRR09 | 10.00 | 10.00 |
| PGP2_2_PDRP01 | 0.10 | 0.10 |
| PGP2_2_PDRP05 | 3.00 | 3.00 |
| PGP2_2_PDRP06 | 0.40 | 0.40 |
| PGP2_2_PDRP07 | 1.00 | 1.00 |
| PGP2_2_PDRP08 | 1.00 | 1.00 |
| PGP2_2_PDRP10 | 0.40 | 0.40 |
| PGP2_2_PDRP17 | 0.50 | 0.50 |
| PGP2_2_PDRP22 | 0.99 | 0.99 |
| PGP2_2_PDRP23 | 0.99 | 0.99 |
| PGP2_2_PDRP24 | 0.99 | 0.99 |
| PGP2_2_PDRP25 | 0.99 | 0.99 |
| PGP2_2_PDRP26 | 0.99 | 0.99 |
| PGP2_2_PDRP28 | 0.99 | 0.99 |
| PGP2_2_PDRP29 | 0.99 | 0.99 |
| PGP2_2_PDRP30 | 0.99 | 0.99 |
| PGSB_1_PDRP02 | 0.10 | 0.10 |
| PGSB_1_PDRP04 | 3.00 | 3.00 |
| PGSB_1_PDRP06 | 0.96 | 0.96 |
| PGSB_1_PDRP08 | 4.00 | 4.00 |
| PGSB_1_PDRP09 | 1.70 | 1.70 |
| PGSB_1_PDRP10 | 3.00 | 3.00 |
| PGSB_1_PDRP11 | 1.00 | 1.00 |
| PGSB_1_PDRP12 | 0.30 | 0.30 |
| PGSB_1_PDRP13 | 0.25 | 0.25 |
| PGSB_1_PDRP14 | 0.50 | 0.50 |
| PGSB_1_PDRP16 | 0.40 | 0.40 |
| PGSB_1_PDRP17 | 0.50 | 0.50 |
| PGSB_1_PDRP29 | 0.99 | 0.99 |
| PGSB_1_PDRP30 | 0.99 | 0.99 |
| PGSB_1_PDRP31 | 0.99 | 0.99 |

| | | |
|---|---|---|
| PGSB_1_PDRP32 | 0.99 | 0.99 |
| PGSB_1_PDRP33 | 0.99 | 0.99 |
| PGSB_1_PDRP34 | 0.99 | 0.99 |
| PGSB_1_PDRP35 | 0.99 | 0.99 |
| PGSB_1_PDRP36 | 0.99 | 0.99 |
| PGSB_1_PDRP42 | 0.99 | 0.99 |
| PGSB_1_PDRP43 | 0.99 | 0.99 |
| PGSB_1_PDRP44 | 0.99 | 0.99 |
| PGSB_1_PDRP45 | 0.99 | 0.99 |
| PGSB_1_RDRR04 | 0.60 | 0.60 |
| PGSB_1_RDRR05 | 1.73 | 1.73 |
| PGSF_2_PDRP01 | 1.00 | 1.00 |
| PGSF_2_PDRP03 | 2.00 | 2.00 |
| PGSF_2_PDRP04 | 2.00 | 2.00 |
| PGSF_2_PDRP06 | 0.70 | 0.70 |
| PGSF_2_PDRP07 | 0.90 | 0.90 |
| PGSF_2_PDRP08 | 1.00 | 1.00 |
| PGSF_2_PDRP09 | 0.30 | 0.30 |
| PGSF_2_PDRP10 | 0.15 | 0.15 |
| PGSF_2_PDRP11 | 0.15 | 0.15 |
| PGSF_2_PDRP12 | 1.00 | 1.00 |
| PGSF_2_PDRP18 | 0.50 | 0.50 |
| PGSF_2_PDRP19 | 0.99 | 0.99 |
| PGSF_2_PDRP20 | 0.99 | 0.99 |
| PGSF_2_PDRP21 | 0.99 | 0.99 |
| PGSF_2_PDRP22 | 0.99 | 0.99 |
| PGSF_2_PDRP23 | 0.99 | 0.99 |
| PGSF_2_PDRP26 | 0.99 | 0.99 |
| PGSF_2_PDRP27 | 0.99 | 0.99 |
| PGSF_2_PDRP28 | 0.99 | 0.99 |
| PGSF_2_PDRP29 | 0.99 | 0.99 |
| PGSI_1_PDRP01 | 0.50 | 0.50 |
| PGSI_1_PDRP02 | 4.00 | 4.00 |
| PGSI_1_PDRP03 | 0.20 | 0.20 |
| PGSI_1_PDRP09 | 0.99 | 0.99 |
| PGSI_1_PDRP10 | 0.99 | 0.99 |
| PGSI_1_PDRP11 | 0.99 | 0.99 |
| PGSI_1_PDRP12 | 0.99 | 0.99 |
| PGSI_1_PDRP15 | 0.99 | 0.99 |
| PGSI_1_PDRP16 | 0.99 | 0.99 |
| PGSI_1_PDRP17 | 0.99 | 0.99 |
| PGSI_1_RDRR01 | 0.54 | 0.54 |
| PGST_2_PDRP01 | 1.00 | 1.00 |

| | | |
|---|---|---|
| PGST_2_PDRP03 | 3.00 | 3.00 |
| PGST_2_PDRP07 | 0.99 | 0.99 |
| PGST_2_PDRP08 | 0.99 | 0.99 |
| PGST_2_PDRP09 | 0.99 | 0.99 |
| PGST_2_PDRP10 | 0.99 | 0.99 |
| PGST_2_PDRP11 | 0.99 | 0.99 |
| PGZP_2_PDRP02 | 4.00 | 4.00 |
| PGZP_2_PDRP07 | 0.99 | 0.99 |
| PGZP_2_PDRP08 | 0.99 | 0.99 |
| PGZP_2_PDRP09 | 0.99 | 0.99 |
| PGZP_2_PDRP10 | 0.99 | 0.99 |
| PGZP_2_PDRP11 | 0.99 | 0.99 |
| PGZP_2_RDRR01 | 19.20 | 19.20 |
| PGZP_2_RDRR02 | 5.65 | 5.65 |
| PGZP_2_RDRR03 | 5.00 | 5.00 |
| PGZP_2_RDRR06 | 5.00 | 5.00 |
| REDBLF_6_UNIT | 44.00 | 15.00 |
| REDOND_7_UNIT 5 | 168.87 | 147.87 |
| REDOND_7_UNIT 6 | 165.00 | 165.00 |
| REDOND_7_UNIT 7 | 375.96 | 375.96 |
| REDOND_7_UNIT 8 | 365.90 | 365.90 |
| RVSIDE_6_SPRING | 28.00 | 28.00 |
| SAUGUS_7_LOPEZ | 5.29 | 5.29 |
| SBERDO_2_PSP3 | 427.00 | 427.00 |
| SBERDO_2_PSP4 | 427.00 | 427.00 |
| SCEC_1_PDRP03 | 0.99 | 0.99 |
| SCEC_1_PDRP05 | 0.99 | 0.99 |
| SCEC_1_PDRP06 | 0.99 | 0.99 |
| SCEC_1_PDRP07 | 0.99 | 0.99 |
| SCEC_1_PDRP08 | 0.99 | 0.99 |
| SCEC_1_PDRP09 | 0.99 | 0.99 |
| SCEC_1_PDRP10 | 0.99 | 0.99 |
| SCEC_1_PDRP11 | 0.99 | 0.99 |
| SCEC_1_PDRP12 | 0.99 | 0.99 |
| SCEC_1_PDRP13 | 0.99 | 0.99 |
| SCEC_1_PDRP14 | 0.99 | 0.99 |
| SCEC_1_PDRP18 | 0.99 | 0.99 |
| SCEC_1_PDRP19 | 0.99 | 0.99 |
| SCEC_1_PDRP20 | 0.99 | 0.99 |
| SCEC_1_PDRP26 | 2.34 | 2.34 |
| SCEC_1_PDRP27 | 1.50 | 1.50 |
| SCEC_1_PDRP28 | 0.40 | 0.40 |
| SCEC_1_PDRP29 | 0.35 | 0.35 |

| | | |
|---|---|---|
| SCEC_1_PDRP30 | 5.00 | 5.00 |
| SCEC_1_PDRP31 | 5.00 | 5.00 |
| SCEC_1_PDRP32 | 6.00 | 6.00 |
| SCEC_1_PDRP33 | 0.99 | 0.99 |
| SCEC_1_PDRP36 | 9.90 | 9.90 |
| SCEC_1_PDRP37 | 9.90 | 9.90 |
| SCEC_1_PDRP38 | 0.50 | 0.50 |
| SCEC_1_PDRP39 | 1.50 | 1.50 |
| SCEC_1_PDRP41 | 9.99 | 9.99 |
| SCEC_1_PDRP42 | 5.00 | 5.00 |
| SCEC_1_PDRP43 | 5.00 | 5.00 |
| SCEC_1_PDRP44 | 5.00 | 5.00 |
| SCEC_1_PDRP45 | 2.50 | 2.50 |
| SCEC_1_PDRP46 | 4.76 | 4.76 |
| SCEC_1_PDRP47 | 3.68 | 3.68 |
| SCEC_1_PDRP48 | 0.99 | 0.99 |
| SCEC_1_PDRP49 | 0.99 | 0.99 |
| SCEC_1_PDRP50 | 0.99 | 0.99 |
| SCEC_1_PDRP51 | 0.99 | 0.99 |
| SCEC_1_PDRP52 | 0.99 | 0.99 |
| SCEC_1_PDRP53 | 0.99 | 0.99 |
| SCEC_1_PDRP54 | 0.99 | 0.99 |
| SCEC_1_PDRP55 | 0.99 | 0.99 |
| SCEC_1_PDRP56 | 4.00 | 4.00 |
| SCEC_1_PDRP57 | 0.30 | 0.30 |
| SCEC_1_PDRP58 | 2.12 | 2.12 |
| SCEC_1_PDRP59 | 4.00 | 4.00 |
| SCEHOV_2_HOOVER | 525.00 | 525.00 |
| SCEN_6_PDRP01 | 3.00 | 3.00 |
| SCEN_6_PDRP02 | 0.99 | 0.99 |
| SCEN_6_PDRP06 | 0.99 | 0.99 |
| SCEN_6_PDRP07 | 0.99 | 0.99 |
| SCEN_6_PDRP08 | 0.99 | 0.99 |
| SCEN_6_PDRP09 | 0.99 | 0.99 |
| SCEN_6_PDRP11 | 0.99 | 0.99 |
| SCEN_6_PDRP14 | 0.99 | 0.99 |
| SCEN_6_PDRP15 | 0.99 | 0.99 |
| SCEN_6_PDRP17 | 9.00 | 9.00 |
| SCEN_6_PDRP18 | 0.70 | 0.70 |
| SCEN_6_PDRP19 | 0.10 | 0.10 |
| SCEN_6_PDRP20 | 0.10 | 0.10 |
| SCEN_6_PDRP21 | 1.10 | 1.10 |
| SCEN_6_PDRP22 | 1.50 | 1.50 |

| | | |
|---|---|---|
| SCEN_6_PDRP23 | 3.50 | 3.50 |
| SCEN_6_PDRP24 | 1.20 | 1.20 |
| SCEN_6_PDRP25 | 0.42 | 0.42 |
| SCEN_6_PDRP26 | 0.72 | 0.72 |
| SCEN_6_PDRP27 | 3.00 | 3.00 |
| SCEN_6_PDRP29 | 0.99 | 0.99 |
| SCEN_6_PDRP30 | 0.99 | 0.99 |
| SCEN_6_PDRP31 | 0.99 | 0.99 |
| SCEN_6_PDRP32 | 0.99 | 0.99 |
| SCEW_2_PDRP01 | 0.99 | 0.99 |
| SCEW_2_PDRP15 | 1.40 | 1.40 |
| SCEW_2_PDRP16 | 1.50 | 1.50 |
| SCEW_2_PDRP17 | 1.80 | 1.80 |
| SCEW_2_PDRP18 | 0.40 | 0.40 |
| SCEW_2_PDRP19 | 5.00 | 5.00 |
| SCEW_2_PDRP20 | 5.00 | 5.00 |
| SCEW_2_PDRP21 | 0.99 | 0.99 |
| SCEW_2_PDRP24 | 2.50 | 2.50 |
| SCEW_2_PDRP25 | 0.10 | 0.10 |
| SCEW_2_PDRP26 | 0.10 | 0.10 |
| SCEW_2_PDRP27 | 4.50 | 4.50 |
| SCEW_2_PDRP28 | 2.00 | 2.00 |
| SCEW_2_PDRP29 | 2.00 | 2.00 |
| SCEW_2_PDRP31 | 2.00 | 2.00 |
| SCEW_2_PDRP32 | 0.10 | 0.10 |
| SCEW_2_PDRP33 | 2.00 | 2.00 |
| SCEW_2_PDRP37 | 0.99 | 0.99 |
| SCEW_2_PDRP38 | 6.00 | 6.00 |
| SCEW_2_PDRP39 | 5.00 | 5.00 |
| SCEW_2_PDRP40 | 0.99 | 0.99 |
| SCEW_2_PDRP41 | 0.99 | 0.99 |
| SCEW_2_PDRP42 | 0.99 | 0.99 |
| SCEW_2_PDRP43 | 0.99 | 0.99 |
| SCEW_2_PDRP44 | 0.99 | 0.99 |
| SCEW_2_PDRP45 | 0.99 | 0.99 |
| SCEW_2_PDRP46 | 0.99 | 0.99 |
| SCEW_2_PDRP47 | 0.99 | 0.99 |
| SCEW_2_PDRP48 | 0.99 | 0.99 |
| SCEW_2_PDRP49 | 0.99 | 0.99 |
| SCEW_2_PDRP50 | 0.99 | 0.99 |
| SCEW_2_PDRP51 | 0.99 | 0.99 |
| SCEW_2_PDRP52 | 0.99 | 0.99 |
| SCEW_2_PDRP53 | 0.99 | 0.99 |

| | | |
|---|---|---|
| SCEW_2_PDRP54 | 0.99 | 0.99 |
| SCEW_2_PDRP55 | 0.99 | 0.99 |
| SCEW_2_PDRP56 | 0.99 | 0.99 |
| SCEW_2_PDRP57 | 0.99 | 0.99 |
| SCEW_2_PDRP58 | 0.99 | 0.99 |
| SCEW_2_PDRP59 | 0.99 | 0.99 |
| SCEW_2_PDRP60 | 0.99 | 0.99 |
| SCEW_2_PDRP61 | 0.99 | 0.99 |
| SCHD_1_PDRP01 | 0.20 | 0.20 |
| SCHD_1_PDRP02 | 0.14 | 0.14 |
| SCHD_1_PDRP04 | 0.99 | 0.99 |
| SCHD_1_PDRP06 | 0.99 | 0.99 |
| SCHD_1_PDRP07 | 0.99 | 0.99 |
| SCHD_1_PDRP08 | 0.99 | 0.99 |
| SCHD_1_PDRP09 | 0.99 | 0.99 |
| SCHD_1_PDRP10 | 2.00 | 2.00 |
| SCHD_1_PDRP11 | 3.00 | 3.00 |
| SCHD_1_PDRP12 | 3.00 | 3.00 |
| SCHD_1_PDRP15 | 3.00 | 3.00 |
| SCHD_1_PDRP16 | 4.00 | 4.00 |
| SCHD_1_PDRP17 | 0.90 | 0.90 |
| SCHD_1_PDRP18 | 0.10 | 0.10 |
| SCHD_1_PDRP19 | 0.10 | 0.10 |
| SCHD_1_PDRP20 | 0.70 | 0.70 |
| SCHD_1_PDRP21 | 0.10 | 0.10 |
| SCHD_1_PDRP23 | 0.99 | 0.99 |
| SCHD_1_PDRP24 | 0.99 | 0.99 |
| SCHD_1_PDRP25 | 0.99 | 0.99 |
| SCHD_1_PDRP26 | 0.99 | 0.99 |
| SCHLTE_1_PL1X3 | 247.24 | 122.01 |
| SCLD_1_PDRP08 | 0.10 | 0.10 |
| SCLD_1_PDRP09 | 0.99 | 0.99 |
| SCLD_1_PDRP10 | 1.00 | 1.00 |
| SCLD_1_PDRP11 | 0.99 | 0.99 |
| SCNW_6_PDRP07 | 0.99 | 0.99 |
| SCNW_6_PDRP08 | 0.99 | 0.99 |
| SCNW_6_PDRP09 | 0.99 | 0.99 |
| SCNW_6_PDRP10 | 4.00 | 4.00 |
| SCNW_6_PDRP11 | 3.00 | 3.00 |
| SCNW_6_PDRP12 | 3.00 | 3.00 |
| SCNW_6_PDRP15 | 3.40 | 3.40 |
| SCNW_6_PDRP17 | 1.80 | 1.80 |
| SCNW_6_PDRP18 | 1.50 | 1.50 |

| | | |
|---|---|---|
| SCNW_6_PDRP19 | 1.00 | 1.00 |
| SCNW_6_PDRP20 | 0.60 | 0.60 |
| SCNW_6_PDRP21 | 0.10 | 0.10 |
| SCNW_6_PDRP22 | 0.99 | 0.99 |
| SCNW_6_PDRP24 | 0.99 | 0.99 |
| SCNW_6_PDRP25 | 0.99 | 0.99 |
| SCNW_6_PDRP26 | 0.99 | 0.99 |
| SCNW_6_PDRP27 | 0.99 | 0.99 |
| SCNW_6_PDRP28 | 0.99 | 0.99 |
| SDG1_1_PDRP01 | 0.65 | 0.65 |
| SDG1_1_PDRP03 | 0.25 | 0.25 |
| SDG1_1_PDRP04 | 1.50 | 1.50 |
| SDG1_1_PDRP05 | 1.50 | 1.50 |
| SDG1_1_PDRP06 | 1.50 | 1.50 |
| SDG1_1_PDRP07 | 1.50 | 1.50 |
| SDG1_1_PDRP08 | 1.50 | 1.50 |
| SDG1_1_PDRP09 | 1.50 | 1.50 |
| SDG1_1_PDRP10 | 0.20 | 0.20 |
| SDG1_1_PDRP12 | 1.50 | 1.50 |
| SDG1_1_PDRP14 | 1.00 | 1.00 |
| SDG1_1_PDRP15 | 1.00 | 1.00 |
| SDG1_1_PDRP16 | 0.50 | 0.50 |
| SDG1_1_PDRP17 | 0.57 | 0.57 |
| SDG1_1_PDRP18 | 0.25 | 0.25 |
| SDG1_1_PDRP19 | 0.28 | 0.28 |
| SDG1_1_PDRP25 | 0.99 | 0.99 |
| SDG1_1_PDRP26 | 0.99 | 0.99 |
| SDG1_1_PDRP27 | 0.99 | 0.99 |
| SDG1_1_PDRP28 | 0.99 | 0.99 |
| SDG1_1_PDRP30 | 1.50 | 1.50 |
| SDG1_1_PDRP31 | 1.50 | 1.50 |
| SDG1_1_PDRP32 | 1.50 | 1.50 |
| SDG1_1_PDRP33 | 1.50 | 1.50 |
| SDG1_1_PDRP34 | 1.50 | 1.50 |
| SDG1_1_PDRP36 | 0.50 | 0.50 |
| SDG1_1_PDRP37 | 0.99 | 0.99 |
| SDG1_1_PDRP38 | 0.99 | 0.99 |
| SDG1_1_PDRP39 | 0.99 | 0.99 |
| SDG1_1_PDRP40 | 0.99 | 0.99 |
| SDG1_1_PDRP41 | 0.99 | 0.99 |
| SDG1_1_PDRP42 | 0.99 | 0.99 |
| SDG1_1_PDRP43 | 0.99 | 0.99 |
| SDG1_1_PDRP44 | 0.99 | 0.99 |

Appendix B - List of physical resources available to meet the highest Flex deficiency

| | | |
|---|---|---|
| SDG1_1_PDRP45 | 0.99 | 0.99 |
| SDG1_1_PDRP46 | 0.99 | 0.99 |
| SDG1_1_PDRP47 | 0.99 | 0.99 |
| SDG1_1_PDRP48 | 0.99 | 0.99 |
| SDG1_1_PDRP49 | 0.99 | 0.99 |
| SDG1_1_PDRP50 | 0.99 | 0.99 |
| SDG1_1_PDRP51 | 0.99 | 0.99 |
| SDG1_1_PDRP59 | 0.49 | 0.49 |
| SENTNL_2_CTG7 | 91.84 | 22.00 |
| SMPRIP_1_SMPSON | 46.05 | 46.05 |
| SMUDGO_7_UNIT 1 | 32.00 | 10.00 |
| SPICER_1_UNITS | 6.00 | 4.62 |
| STIGCT_2_LODI | 14.50 | 6.46 |
| SUNRIS_2_PL1X3 | 461.02 | 91.02 |
| SUNSET_2_UNITS | 248.00 | 64.00 |
| SUTTER_2_PL1X3 | 525.00 | 525.00 |
| SWIFT_1_NAS | 3.85 | 3.85 |
| TERMEX_2_PL1X3 | 445.00 | 370.00 |
| UKIAH_7_LAKEMN | 1.70 | 1.70 |
| ULTPCH_1_UNIT 1 | 17.85 | 17.85 |
| ULTPFR_1_UNIT 1 | 23.93 | 23.93 |
| ULTRCK_2_UNIT | 23.08 | 23.08 |
| USWND4_2_UNIT2 | 7.40 | 7.40 |
| VACADX_1_NAS | 1.85 | 1.85 |
| VALLEY_5_PERRIS | 7.94 | 7.94 |
| VERNON_6_GONZL1 | 5.75 | 5.75 |
| VERNON_6_GONZL2 | 5.75 | 5.75 |
| VERNON_6_MALBRG | 78.00 | 39.39 |
| VESTAL_2_WELLHD | 49.00 | 49.00 |
| VILLPK_2_VALLYV | 4.10 | 4.10 |
| VSTAES_6_VESBT1 | 11.00 | 11.00 |
| WALCRK_2_CTG1 | 96.00 | 96.00 |
| WALCRK_2_CTG2 | 96.00 | 96.00 |
| WALCRK_2_CTG3 | 96.00 | 96.00 |
| WALCRK_2_CTG4 | 96.00 | 96.00 |
| WALCRK_2_CTG5 | 96.65 | 96.65 |
| WARNE_2_UNIT | 56.85 | 45.85 |
| WDLEAF_7_UNIT 1 | 60.00 | 60.00 |
| YUBACT_6_UNITA1 | 47.60 | 47.60 |