

**FORM A - WORKSHEETS**

**SUMMARY PRICING FORMS FOR O&M**

| FORM   | TITLE   |
|--------|---|
| OMP-IP | SUMMARY OF FIXED PRICE DATA FOR INTERMEDIATE O&M PERIOD |
| OMP-FP | SUMMARY OF FIXED PRICE DATA FOR FULL O&M PERIOD         |
| OMP-OP | SUMMARY OF FIXED PRICE DATA FOR OPTIONAL O&M PERIOD     |

**FORM B-1 - WORKSHEETS**

**OPERATIONS SERVICES SHUTTLE SERVICE O&M PERIOD**

| FORM      | TITLE  |
|-----------|--|
| OS-LMS-SS | SUMMARY OF FIXED PRICE DATA FOR SHUTTLE SERVICE O&M PERIOD         |
| OS-LMP-SS | SUMMARY CALCULATION OF PRICING DATA FOR SHUTTLE SERVICE O&M PERIOD |
| OS-LS-SS  | SUMMARY OF LABOR PRICING DATA FOR SHUTTLE SERVICE O&M PERIOD       |
| OS-LP-SS  | CALCULATION OF LABOR PRICING DATA FOR SHUTTLE SERVICE O&M PERIOD   |
| OS-M-SS   | SUMMARY MATERIAL PRICE FOR SHUTTLE SERVICE O&M PERIOD              |

**FORM B-2 - WORKSHEETS**

**OPERATIONS SERVICES INTERMEDIATE O&M PERIOD**

| FORM       | TITLE  |
|------------|--|
| OS-LMS-IP  | SUMMARY OF FIXED PRICE DATA FOR INTERMEDIATE O&M PERIOD            |
|            |  |
| OS-LMP-IP1 | SUMMARY CALCULATION OF PRICING DATA FOR INTERMEDIATE O&M PERIOD #1 |
| OS-LMP-IP2 | SUMMARY CALCULATION OF PRICING DATA FOR INTERMEDIATE O&M PERIOD #2 |
|            |  |
| OS-LS-IP1  | SUMMARY OF LABOR PRICING DATA FOR INTERMEDIATE O&M PERIOD #1       |
| OS-LS-IP2  | SUMMARY OF LABOR PRICING DATA FOR INTERMEDIATE O&M PERIOD #2       |
|            |  |
| OS-LP-IP1  | CALCULATION OF LABOR PRICING DATA FOR INTERMEDIATE O&M PERIOD #1   |
| OS-LP-IP2  | CALCULATION OF LABOR PRICING DATA FOR INTERMEDIATE O&M PERIOD #2   |
|            |  |
| OS-M-IP1   | SUMMARY MATERIAL PRICE FOR INTERMEDIATE O&M PERIOD #1              |
| OS-M-IP2   | SUMMARY MATERIAL PRICE FOR INTERMEDIATE O&M PERIOD #2              |

**MAINTENANCE SERVICES PRICES**

**FORM MS-M-SS**

**SUMMARY MATERIAL PRICE FOR SHUTTLE SERVICE O&M PERIOD**

Core Systems Contractor: \_\_\_\_\_

The total of this Form MS-M-SS shall be transferred to the appropriate year on Form MS-LMP-SS. Core Systems Contractor shall provide prices for all blank space on this form. All amounts shall be in escalated U.S. dollars (USD).

\* - Core Systems Contractor shall identify these items, expanding this form as necessary.

| MATERIALS AND MISCELLANEOUS ITEMS                      |                                 | MONTHLY AMOUNT<br>(USD) |
|--|---------------------------------|-------------------------|
| CLASSIFICATION   | CATEGORY                        |                         |
| 1. Consumables and Parts and Spare Equipment           | a. Vehicle                      |                         |
|  | b. Traction Electrification     |                         |
|  | c. Communications & Control     |                         |
|  | d. Track                        |                         |
|  | e. Station                      |                         |
|  | f. OCC                          |                         |
|  | g. Fare Vending                 |                         |
|  | h. Custodial                    |                         |
|  | i. General & Special Test Eqpt. |                         |
|  | j. Special Contracted Services  |                         |
|  | k. Other (specify)*             |                         |
| 2. Office and Administration                           | a. Office Materials             |                         |
|  | b. Travel                       |                         |
|  | c. Other (specify)*             |                         |
| 3. Cost of Road Vehicles                               | Total                           |                         |
| 4. Bond(s)   | Total                           |                         |
| 5. Insurance   | Total                           |                         |
| 6. Other (specify)                                     | *                               |                         |
| 7. Taxes (if applicable)                               | *                               |                         |
| <b>TOTAL ANNUAL MAINTENANCE SERVICES MATERIALS AND</b> |                                 |                         |

**FORM C-2 - WORKSHEETS**

**MAINTENANCE SERVICES INTERMEDIATE O&M PERIOD**

| FORM       | TITLE  |
|------------|--|
| MS-LMS-IP  | SUMMARY OF FIXED PRICE DATA FOR INTERMEDIATE O&M PERIOD            |
|            |  |
| MS-LMP-IP1 | SUMMARY CALCULATION OF PRICING DATA FOR INTERMEDIATE O&M PERIOD #1 |
| MS-LMP-IP2 | SUMMARY CALCULATION OF PRICING DATA FOR INTERMEDIATE O&M PERIOD #2 |
|            |  |
| MS-LS-IP1  | SUMMARY OF LABOR PRICING DATA FOR INTERMEDIATE O&M PERIOD #1       |
| MS-LS-IP2  | SUMMARY OF LABOR PRICING DATA FOR INTERMEDIATE O&M PERIOD #2       |
|            |  |
| MS-LP-IP1  | CALCULATION OF LABOR PRICING DATA FOR INTERMEDIATE O&M PERIOD #1   |
| MS-LP-IP2  | CALCULATION OF LABOR PRICING DATA FOR INTERMEDIATE O&M PERIOD #2   |
|            |  |
| MS-M-IP1   | SUMMARY MATERIAL PRICE FOR INTERMEDIATE O&M PERIOD #1              |
| MS-M-IP2   | SUMMARY MATERIAL PRICE FOR INTERMEDIATE O&M PERIOD #2              |

**OPERATIONS SERVICES PRICES**

**FORM OS-M-FP5**

**SUMMARY MATERIAL PRICE FOR FULL O&M PERIOD YEAR #5**

Core Systems Contractor: \_\_\_\_\_

The total of this Form OS-M-FP5 shall be transferred to the appropriate year on Form OS-LMP-FP5. Core Systems Contractor shall provide prices for all blank space on this form. All amounts shall be in U.S. dollars (USD) as of the date of the Proposal. The Core Systems Contractor shall not include escalation in its prices on this form.

\* - Core Systems Contractor shall identify these items, expanding this form as necessary.

| MATERIALS AND MISCELLANEOUS ITEMS   |                     | AMOUNT<br>(USD) |
|---|---------------------|-----------------|
| CLASSIFICATION  | CATEGORY            |                 |
| 1. Office and Administration  | a. Office Materials |                 |
|   | b. Travel           |                 |
|   | c. Other (specify)* |                 |
| 2. Bond(s)  | Total               |                 |
| 3. Insurance  | Total               |                 |
| 4. Other (specify)  | *                   |                 |
| 5. Taxes (if applicable)  | *                   |                 |
| <b>TOTAL ANNUAL OPERATIONS SERVICES MATERIALS AND MISCELLANEOUS ITEMS PRICE</b> |                     |                 |

**MAINTENANCE SERVICES PRICES**

**FORM MS-M-FP5**

**SUMMARY MATERIAL PRICE FOR FULL O&M PERIOD YEAR #5**

Core Systems Contractor: \_\_\_\_\_

The total of this Form MS-M-FP5 shall be transferred to the appropriate year on Form MS-LMP-FP5. Core Systems Contractor shall provide prices for all blank space on this form. All amounts shall be in U.S. dollars (USD) as of the date of the Proposal. The Core Systems Contractor shall not include any escalation in its prices on this form.

\* - Core Systems Contractor shall identify these items, expanding this form as necessary.

| MATERIALS AND MISCELLANEOUS ITEMS  |                                 | AMOUNT<br>(USD) |
|--|---------------------------------|-----------------|
| CLASSIFICATION   | CATEGORY                        |                 |
| 1. Consumables and Parts and Spare Equipment                                     | a. Vehicle                      |                 |
|  | b. Traction Electrification     |                 |
|  | c. Communications & Control     |                 |
|  | d. Track                        |                 |
|  | e. Station                      |                 |
|  | f. OCC                          |                 |
|  | g. Fare Vending                 |                 |
|  | h. Custodial                    |                 |
|  | i. General & Special Test Eqpt. |                 |
|  | j. Special Contracted Services  |                 |
|  | k. Other (specify)*             |                 |
| 2. Office and Administration   | a. Office Materials             |                 |
|  | b. Travel                       |                 |
|  | c. Other (specify)*             |                 |
| 3. Cost of Road Vehicles   | Total                           |                 |
| 4. Bond(s)   | Total                           |                 |
| 5. Insurance   | Total                           |                 |
| 6. Other (specify)   | *                               |                 |
| 7. Taxes (if applicable)   | *                               |                 |
| <b>TOTAL ANNUAL MAINTENANCE SERVICES MATERIALS AND MISCELLANEOUS ITEMS PRICE</b> |                                 |                 |

**FORM F - WORKSHEETS**

**OPERATIONS SERVICES OPTIONAL O&M PERIOD**

| FORM       | TITLE   |
|------------|---|
| OS-LMS-OP  | SUMMARY OF FIXED PRICE DATA FOR OPTIONAL O&M PERIOD                   |
|            |   |
| OS-LMP-OP1 | SUMMARY CALCULATION OF PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #1   |
| OS-LMP-OP2 | SUMMARY CALCULATION OF PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #2   |
| OS-LMP-OP3 | SUMMARY CALCULATION OF PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #3   |
| OS-LMP-OP4 | SUMMARY CALCULATION OF PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #4   |
| OS-LMP-OP5 | SUMMARY CALCULATION OF PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #5   |
|            |   |
| OS-LS-OP1  | SUMMARY OF LABOR PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #1         |
| OS-LS-OP2  | SUMMARY OF LABOR PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #2         |
| OS-LS-OP3  | SUMMARY OF LABOR PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #3         |
| OS-LS-OP4  | SUMMARY OF LABOR PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #4         |
| OS-LS-OP5  | SUMMARY OF LABOR PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #5         |
|            |   |
| OS-LP-OP1  | CALCULATION OF LABOR PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #1     |
| OS-LP-OP2  | CALCULATION OF LABOR PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #2     |
| OS-LP-OP3  | CALCULATION OF LABOR PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #3     |
| OS-LP-OP4  | CALCULATION OF LABOR PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #4     |
| OS-LP-OP5  | CALCULATION OF LABOR PRICING DATA FOR OPTIONAL O&M PERIOD YEAR #5     |
|            |   |
| OS-M-OP1   | SUMMARY MATERIAL PRICE FOR OPTIONAL O&M PERIOD YEAR #1                |
| OS-M-OP2   | SUMMARY MATERIAL PRICE FOR OPTIONAL O&M PERIOD YEAR #2                |
| OS-M-OP3   | SUMMARY MATERIAL PRICE FOR OPTIONAL O&M PERIOD YEAR #3                |
| OS-M-OP4   | SUMMARY MATERIAL PRICE FOR OPTIONAL O&M PERIOD YEAR #4                |
| OS-M-OP5   | SUMMARY MATERIAL PRICE FOR OPTIONAL O&M PERIOD YEAR #5                |
|            |   |
| OS-OT      | OPTION FOR OPERATIONS SERVICES TRAINING OF OWNER-DESIGNATED PERSONNEL |

**MAINTENANCE SERVICES PRICES**

**FORM MS-OT**

**OPTION FOR MAINTENANCE SERVICES TRAINING OF OWNER-DESIGNATED PERSONNEL**

Core Systems Contractor: \_\_\_\_\_

Core Systems Contractor shall provide prices for all blank spaces on this form. All amounts shall be in U.S. dollars (USD) as of the date of the Proposal. The Core Systems Contractor shall not include any escalation in its prices on this form.

| ITEM                            | AMOUNT<br>(USD) |
|---------------------------------|-----------------|
| Labor                           |                 |
| Materials                       |                 |
| SUBTOTAL                        |                 |
| Taxes (if applicable - specify) |                 |
| TOTAL                           |                 |

**CAPITAL ASSET REPLACEMENT PROGRAM (CARP) PRICES**

**FORM H - WORKSHEETS**

**SUMMARY OF CARP PRICES**

Core Systems Contractor: \_\_\_\_\_

The following tables provide a break down of the Capital Asset Replacement Program Price by year for the Full O&M Period and the Optional O&M Period. Core Systems Contractor shall transfer labor and materials totals from completed forms CARP-PD-FP and CARP-PD-OP. Core Systems Contractors shall provide prices for all blank spaces on this form. All amounts shall be shown in U.S. dollars (USD) as of the Proposal due date. No allowance for capital asset replacement costs will be made during the Intermediate O&M Periods.

| <b>CAPITAL ASSET REPLACEMENT PROGRAM PRICE</b> |                            |               |               |               |               |              |
|--|----------------------------|---------------|---------------|---------------|---------------|--------------|
|  | <b>FULL O&amp;M PERIOD</b> |               |               |               |               |              |
| <b>ITEM</b>                                    | <b>YEAR 1</b>              | <b>YEAR 2</b> | <b>YEAR 3</b> | <b>YEAR 4</b> | <b>YEAR 5</b> | <b>TOTAL</b> |
| Labor  |                            |               |               |               |               |              |
| Materials                                      |                            |               |               |               |               |              |
| CARP Price                                     |                            |               |               |               |               |              |

| <b>CAPITAL ASSET REPLACEMENT PROGRAM PRICE</b> |                                |               |               |               |               |              |
|--|--------------------------------|---------------|---------------|---------------|---------------|--------------|
|  | <b>OPTIONAL O&amp;M PERIOD</b> |               |               |               |               |              |
| <b>ITEM</b>                                    | <b>YEAR 1</b>                  | <b>YEAR 2</b> | <b>YEAR 3</b> | <b>YEAR 4</b> | <b>YEAR 5</b> | <b>TOTAL</b> |
| Labor  |                                |               |               |               |               |              |
| Materials                                      |                                |               |               |               |               |              |
| CARP Price                                     |                                |               |               |               |               |              |

**INTERMEDIATE PERIOD POWER UTILITY**

**FORM I - WORKSHEETS**

**POWER/UTILITIES DEMAND ESTIMATE FOR SHUTTLE SERVICE O&M PERIOD**

Core Systems Contractor: \_\_\_\_\_

A preliminary load analysis shall be provided using this form. Proposer shall expand this form as necessary.

Traction power estimates shall include all propulsion and vehicle auxiliary power distributed via power rails and any Operations and Servicing Building (OSB) shop (stinger) power as required.

Estimates of System auxiliary and housekeeping power shall be separate for sources powered from System substations.

Complete and detailed assumptions, analysis, and calculations used to derive the demand estimates below shall be provided as an attachment to this form.

| <b>POWER DEMAND</b>   |                    |                    |                 |
|---|--------------------|--------------------|-----------------|
| <b>CLASSIFICATION</b>   | <b>MODE</b>        | <b>AVERAGE kVA</b> | <b>PEAK kVA</b> |
| 1. Traction Power   | Peak Period        |                    |                 |
|   | Base Period        |                    |                 |
|   | Late Period        |                    |                 |
| 2a. System Auxiliary and Housekeeping Power (Waipahu Transit Center Station)    | System Equipment   |                    |                 |
|   | Housekeeping Power |                    |                 |
|   | Other              |                    |                 |
| 2b. System Auxiliary and Housekeeping Power (Leeward Community College Station) | System Equipment   |                    |                 |
|   | Housekeeping Power |                    |                 |
|   | Other              |                    |                 |

**OPERATIONS AND MAINTENANCE SERVICES POWER/UTILITIES**

**FORM PWR-DMD-IP2**

**POWER/UTILITIES DEMAND ESTIMATE FOR INTERMEDIATE O&M PERIOD #2**

Core Systems Contractor: \_\_\_\_\_

A preliminary load analysis shall be provided using this form. Proposer shall expand this form as necessary.

Traction power estimates shall include all propulsion and vehicle auxiliary power distributed via power rails and any Operations and Servicing Building (OSB) shop Estimates of System auxiliary and housekeeping power shall be separate for sources powered from System substations.

Complete and detailed assumptions, analysis, and calculations used to derive the demand estimates below shall be provided as an attachment to this form.

| <b>POWER DEMAND</b>  |                      |                    |                 |
|--|----------------------|--------------------|-----------------|
| <b>CLASSIFICATION</b>  | <b>MODE</b>          | <b>AVERAGE kVA</b> | <b>PEAK kVA</b> |
| 1. Traction Power  | Peak Period          |                    |                 |
|  | Base Period          |                    |                 |
|  | Late Period          |                    |                 |
| 2a. System Auxiliary and Housekeeping Power (East Kapolei Station)                   | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2b. System Auxiliary and Housekeeping Power (UH West O'ahu Station)                  | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2c. System Auxiliary and Housekeeping Power (Ho'opili Station)                       | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2d. System Auxiliary and Housekeeping Power (West Loch Station)                      | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2e. System Auxiliary and Housekeeping Power (Waipahu Transit Center Station)         | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2f. System Auxiliary and Housekeeping Power (yard and shops)                         | System Equipment     |                    |                 |
|  | OSB Shop Power       |                    |                 |
|  | OSB OCC Equipment    |                    |                 |
|  | Train Wash Equipment |                    |                 |
|  | Housekeeping Power   |                    |                 |
| 2g. System Auxiliary and Housekeeping Power (Leeward Community College Station)      | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2h. System Auxiliary and Housekeeping Power (Pearl Highlands Station)                | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2i. System Auxiliary and Housekeeping Power (Pearlridge Station)                     | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2j. System Auxiliary and Housekeeping Power (Aloha Stadium Station)                  | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2k. System Auxiliary and Housekeeping Power (Pearl Harbor Naval Base Station)        | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2l. System Auxiliary and Housekeeping Power (Honolulu International Airport Station) | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2m. System Auxiliary and Housekeeping Power (Lagoon Drive Station)                   | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2n. System Auxiliary and Housekeeping Power (Middle Street Transit Center Station)   | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |

**FULL PERIOD POWER UTILITY**

**FORM J - WORKSHEETS**

**POWER/UTILITIES DEMAND ESTIMATE FOR FULL O&M PERIOD YEAR #1**

Core Systems Contractor: \_\_\_\_\_

A preliminary load analysis shall be provided using this form. Proposer shall expand this form as necessary.

Traction power estimates shall include all propulsion and vehicle auxiliary power distributed via power rails and any Operations and Servicing Building (OSB) shop Estimates of System auxiliary and housekeeping power shall be separate for sources powered from System substations.

Complete and detailed assumptions, analysis, and calculations used to derive the demand estimates below shall be provided as an attachment to this form.

| <b>POWER DEMAND</b>  |                      |                    |                 |
|--|----------------------|--------------------|-----------------|
| <b>CLASSIFICATION</b>  | <b>MODE</b>          | <b>AVERAGE kVA</b> | <b>PEAK kVA</b> |
| 1. Traction Power  | Peak Period          |                    |                 |
|  | Base Period          |                    |                 |
|  | Late Period          |                    |                 |
| 2a. System Auxiliary and Housekeeping Power (East Kapolei Station)                   | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2b. System Auxiliary and Housekeeping Power (UH West O'ahu Station)                  | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2c. System Auxiliary and Housekeeping Power (Ho'opili Station)                       | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2d. System Auxiliary and Housekeeping Power (West Loch Station)                      | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2e. System Auxiliary and Housekeeping Power (Waipahu Transit Center Station)         | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2f. System Auxiliary and Housekeeping Power (yard and shops)                         | System Equipment     |                    |                 |
|  | OSB Shop Power       |                    |                 |
|  | OSB OCC Equipment    |                    |                 |
|  | Train Wash Equipment |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2g. System Auxiliary and Housekeeping Power (Leeward Community College Station)      | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2h. System Auxiliary and Housekeeping Power (Pearl Highlands Station)                | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2i. System Auxiliary and Housekeeping Power (Pearlridge Station)                     | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2j. System Auxiliary and Housekeeping Power (Aloha Stadium Station)                  | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2k. System Auxiliary and Housekeeping Power (Pearl Harbor Naval Base Station)        | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2l. System Auxiliary and Housekeeping Power (Honolulu International Airport Station) | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2m. System Auxiliary and Housekeeping Power (Lagoon Drive Station)                   | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2n. System Auxiliary and Housekeeping Power (Middle Street Transit Center Station)   | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2o. System Auxiliary and Housekeeping Power (Kalihi Station)                         | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2p. System Auxiliary and Housekeeping Power (Kapalama Station)                       | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2q. System Auxiliary and Housekeeping Power (Iwilei Station)                         | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2r. System Auxiliary and Housekeeping Power (Chinatown Station)                      | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2s. System Auxiliary and Housekeeping Power (Downtown Station)                       | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2t. System Auxiliary and Housekeeping Power (Civic Center Station)                   | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2u. System Auxiliary and Housekeeping Power (Kaka'ako Station)                       | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2v. System Auxiliary and Housekeeping Power (Ala Moana Center Station)               | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |

**OPTIONAL PERIOD POWER UTILITY**

**FORM K - WORKSHEETS**

**POWER/UTILITIES DEMAND ESTIMATE FOR OPTIONAL O&M PERIOD YEAR #1**

Core Systems Contractor: \_\_\_\_\_

A preliminary load analysis shall be provided using this form. Proposer shall expand this form as necessary.

Traction power estimates shall include all propulsion and vehicle auxiliary power distributed via power rails and any Operations and Servicing Building (OSB) shop (stinger) power as required.

Estimates of System auxiliary and housekeeping power shall be separate for sources powered from System substations.

Complete and detailed assumptions, analysis, and calculations used to derive the demand estimates below shall be provided as an attachment to this form.

| <b>POWER DEMAND</b>  |                      |                    |                 |
|--|----------------------|--------------------|-----------------|
| <b>CLASSIFICATION</b>  | <b>MODE</b>          | <b>AVERAGE kVA</b> | <b>PEAK kVA</b> |
| 1. Traction Power  | Peak Period          |                    |                 |
|  | Base Period          |                    |                 |
|  | Late Period          |                    |                 |
| 2a. System Auxiliary and Housekeeping Power (East Kapolei Station)                   | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2b. System Auxiliary and Housekeeping Power (UH West O'ahu Station)                  | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2c. System Auxiliary and Housekeeping Power (Ho'opili Station)                       | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2d. System Auxiliary and Housekeeping Power (West Loch Station)                      | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2e. System Auxiliary and Housekeeping Power (Waipahu Transit Center Station)         | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2f. System Auxiliary and Housekeeping Power (yard and shops)                         | System Equipment     |                    |                 |
|  | OSB Shop Power       |                    |                 |
|  | OSB OCC Equipment    |                    |                 |
|  | Train Wash Equipment |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2g. System Auxiliary and Housekeeping Power (Leeward Community College Station)      | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2h. System Auxiliary and Housekeeping Power (Pearl Highlands Station)                | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2i. System Auxiliary and Housekeeping Power (Pearlridge Station)                     | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2j. System Auxiliary and Housekeeping Power (Aloha Stadium Station)                  | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2k. System Auxiliary and Housekeeping Power (Pearl Harbor Naval Base Station)        | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2l. System Auxiliary and Housekeeping Power (Honolulu International Airport Station) | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2m. System Auxiliary and Housekeeping Power (Lagoon Drive Station)                   | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2n. System Auxiliary and Housekeeping Power (Middle Street Transit Center Station)   | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2o. System Auxiliary and Housekeeping Power (Kalihi Station)                         | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2p. System Auxiliary and Housekeeping Power (Kapalama Station)                       | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2q. System Auxiliary and Housekeeping Power (Iwilei Station)                         | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2r. System Auxiliary and Housekeeping Power (Chinatown Station)                      | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2s. System Auxiliary and Housekeeping Power (Downtown Station)                       | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2t. System Auxiliary and Housekeeping Power (Civic Center Station)                   | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2u. System Auxiliary and Housekeeping Power (Kaka'ako Station)                       | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |
| 2v. System Auxiliary and Housekeeping Power (Ala Moana Center Station)               | System Equipment     |                    |                 |
|  | Housekeeping Power   |                    |                 |
|  | Other                |                    |                 |