

| APPLICATION FOR OSHPD PREAPPROVAL OF   | OFFICE USE ONLY            |  |  |  |  |  |  |
|--|----------------------------|--|--|--|--|--|--|
| MANUFACTURER'S CERTIFICATION (OPM)   | APPLICATION #: OPM-0548-19 |  |  |  |  |  |  |
|  | APPLICATION #: OPM-0548-19 |  |  |  |  |  |  |
| OSHPD Preapproval of Manufacturer's Certification (OPM)  |                            |  |  |  |  |  |  |
| Type: 🛛 New 🗌 Renewal 🗌 Update to Pre-CBC 2013 O   | PA Number:                 |  |  |  |  |  |  |
| Manufacturer Information   |                            |  |  |  |  |  |  |
| Monufacturar Bookmon Coulton Inc   |                            |  |  |  |  |  |  |
| Manufacturer: Beckman Coulter, Inc.  |                            |  |  |  |  |  |  |
| Manufacturer's Technical Representative: Kevin Nowak   |                            |  |  |  |  |  |  |
| Mailing Address: 322 Lake Hazeltine Drive, Chaska, MN. 55318                                       |                            |  |  |  |  |  |  |
| Telephone: On File   |                            |  |  |  |  |  |  |
| Product Information  | MB                         |  |  |  |  |  |  |
| Product Name: DxI 9000 OSHPD   |                            |  |  |  |  |  |  |
|  | E                          |  |  |  |  |  |  |
| Product Type: Other Mechanical or Electrical Component 0548-19                                     |                            |  |  |  |  |  |  |
| Product Model Number: Dx1 9000   |                            |  |  |  |  |  |  |
| General Description: A Blood Analysis System   |                            |  |  |  |  |  |  |
| DATE: 04/28/2019   | 67                         |  |  |  |  |  |  |
|  |                            |  |  |  |  |  |  |
| Applicant Information  |                            |  |  |  |  |  |  |
| Applicant Company Name: EASE Co.   | 301                        |  |  |  |  |  |  |
| Applicant Company Name: EASE Co. BUILDING  | /                          |  |  |  |  |  |  |
| Contact Person: Jonathan Roberson, S.E.  |                            |  |  |  |  |  |  |
| Mailing Address:5877 Pine Ave. Suite 210, Chino Hills, CA. 91709                                   |                            |  |  |  |  |  |  |
|  | erson@EASECo.com           |  |  |  |  |  |  |
| I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in |                            |  |  |  |  |  |  |
| accordance with the California Administrative Code, 2019.  |                            |  |  |  |  |  |  |
| Signature of Applicant:  | Date: 8/15/19              |  |  |  |  |  |  |
| Title: Principal Engineer Company Name: EASE   |                            |  |  |  |  |  |  |
| The. Fincipal Engineer Company Name. EASE  | C0.                        |  |  |  |  |  |  |



| Registered Design Professional Preparing Engineering Recommendations   |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Company Name: EASE Co.   |  |  |  |  |  |  |
| Name: Jonathan Roberson, S.E. California License Number: S4197   |  |  |  |  |  |  |
| Mailing Address:5877 Pine Ave. Suite 210, Chino Hills, CA. 91709   |  |  |  |  |  |  |
| Telephone: 909-606-7622 Email: <u>J.Roberson@EASECo.com</u>  |  |  |  |  |  |  |
| OSHPD Special Seismic Certification Preapproval (OSP)  |  |  |  |  |  |  |
| <ul> <li>Special Seismic Certification is preapproved under OSP-<br/>(Separate application for OSP is required)</li> </ul>   |  |  |  |  |  |  |
| Special Seismic Certification is not preapproved   |  |  |  |  |  |  |
| Certification Method(s)  |  |  |  |  |  |  |
| Testing in accordance with:       ICC-ES AC156       FM 1950-16         Other*       (Please Specify):       ICC-ES AC156       FM 1950-16   |  |  |  |  |  |  |
| *Use of criteria other than those adopted by the California Building Standards Code, 2019 (CBSC 2019) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2019 may be used when approved by OSHPD prior to testing. |  |  |  |  |  |  |
| <ul> <li>Analysis</li> <li>Experience Data</li> <li>Combination of Testing, Analysis, and/or Experience Data (Please Specify):</li> </ul>  |  |  |  |  |  |  |
| List of Attachments Supporting the Manufacturer's Certification  |  |  |  |  |  |  |
| □ Test Report       ☑ Drawings       ☑ Calculations       □ Manufacturer's Catalog         □ Other(s)       (Please Specify):  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2019 & ALL PRE-2019 CODE BASED PROJECTS Signature: Arcon Line Date: 4/28/2020   |  |  |  |  |  |  |
| Signature:     Harsen Zono     Date:     4/28/2020       Print Name:     Haeseong Lim  |  |  |  |  |  |  |
| Title: Senior Structural Engineer  |  |  |  |  |  |  |
| Condition of Approval (if applicable):   |  |  |  |  |  |  |

|  | EQUIRMENT ANCHORAGE<br>& SEISMIC ENGINEERING<br>Office of Statewide Health Planning and Development<br>PREAPPROVAL OF MANUFACTURER'S CERTIFICAT<br>OPM-0548-19<br>THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING   |   |
|--|---|---|
| MANUFACTUF   |   | Sheet: <u>1 of 9</u><br>Date: 4/20/20   |
| <ul> <li>(DESIGN F</li> <li>2. THIS DOC<br/>SPECIFIC</li> <li>3. THIS PRE/</li> <li>4. FORCES F</li> <li>WHERE SI</li> <li>WHERE SI</li> <li>WHERE SI</li> <li>5. THIS PRE/</li> <li>6. ALL DESIC</li> <li>7. CONCRET</li> <li>8. CONCRET</li> </ul> | <b>OTES</b><br>PD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2019 CE<br>ORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2019 CBC<br>JMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTU<br>PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH<br>PPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GRE<br>ER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,<br>INS = 1.50, $a_p = 1.0$ , $I_p = 1.5$ , $R_p = 1.5$ , $z/h = 0$ AT CONCRETE SLAB. SEE FOLLOWING SHEETS F<br>INS = 1.85, $a_p = 1.0$ , $I_p = 1.5$ , $R_p = 1.5$ , $z/h = 0$ AT CONCRETE SLAB. SEE FOLLOWING SHEETS F<br>INS = 2.20, $a_p = 1.0$ , $I_p = 1.5$ , $R_p = 1.5$ , $z/h = 1$ AT CONCRETE SLAB. SEE FOLLOWING SHEETS F<br>INS = 2.20, $a_p = 1.0$ , $I_p = 1.5$ , $R_p = 1.5$ , $z/h \le 1$ AT CONCRETE SLAB. SEE FOLLOWING SHEETS F<br>INS = 2.20, $a_p = 1.0$ , $I_p = 1.5$ , $R_p = 1.5$ , $z/h \le 1$ AT CONCRETE SLAB. SEE FOLLOWING SHEETS F<br>INS = 2.20, $a_p = 1.0$ , $I_p = 1.5$ , $R_p = 1.5$ , $z/h \le 1$ AT CONCRETE SLAB ON METAL DECK. SEE FOLL<br>PPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO TH<br>IN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR<br>E SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE<br>E SLAB DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION AT OR BELOW GRADE. (IN<br>SIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING | RER LISTED ABOVE FOR THE<br>H CONSENT.<br>ATER THAN 1.50, 1.85 & 2.20.<br>OR $\Omega_0$<br>OR $\Omega_0$<br>OWING SHEETS FOR $\Omega_0$<br>IE STRUCTURE.<br>R STRENGTH DESIGN.<br>BUILDING. (i.e. $z/h \le 1$ )<br>i.e. $z/h = 0$ ) |
| <ul> <li>B. VERIF<br/>MATEI<br/>PREAF</li> <li>C. VERIF<br/>EXCEI</li> <li>D. VERIF<br/>REQU</li> <li>E. VERIF<br/>EDGEI</li> <li>F. VERIF<br/>UNIT A</li> </ul>   | DE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION<br>(7 THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2019 CBC AND WITH THE DETA<br>(1) THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2019 CBC AND WITH THE DETA<br>(2) THAT DATE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORM<br>PROVAL DOCUMENTS.<br>(7 THAT PROJECT SPECIFIC VALUES OF SDS & z/h RESULT IN SEISMIC FORCES (Eh, Ev ) THA<br>(2) THE VALUES ON THE DETAILS.<br>(7 THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE<br>REMENTS OF THE APPLICABLE ICC ESR AND THIS OPM.<br>(7 THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB<br>(5 OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2).<br>(7 THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE<br>TTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN<br>(6) FROM THIS UNIT'S ANCHORS.   | NILS,<br>MATION SHOWN ON THE  |

| EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING<br>www.EquipmentAnchorage.com |   |  |   |  |  |  |                  |                    |                         |                |                     |      |
|---|---|--|---|--|--|--|------------------|--------------------|-------------------------|----------------|---------------------|------|
| BECKMAN COULTER   |   |  |   |  |  | DES.                                       | J. ROBE          | RSON               | SHEET                   |                |                     |      |
|   |   |  |   |  |  | Јов  | NO. 11-1         | 906                | 2                       |                |                     |      |
|   | DxI 9000  |  |   |  |  |  | DATE             | : 4/20             | )/20                    | of 9           | SHEETS              |      |
| 10. <u>EX</u>   | PANSION   | ANCHORS:   |   |  |  |  |                  |                    |                         |                |                     |      |
| A   |   | HMENT IS T<br>CORRESPO   |   | .DE WITH THE AN<br>C REPORT.   | ICHORS LIS   | TED BEL                                    | OW AND           | INSTALLED          | ) AS DESCR              | IBED           |                     |      |
|   | Anchor<br>Diameter  | Concrete<br>Type   | Min. f'c<br>(psi)   | Anchor Type  | ICC<br>Report No.  | Min.<br>Embed.                             | Min.<br>Spacing  | Min.<br>Edge Dist. | Min. Conc.<br>Thickness | Torque<br>Test | Direct Tens<br>Test | sion |
|   | 1/2"  | Sand Light<br>Weight   | 3000  | Hilti Kwik Bolt TZ   | ESR-1917   | 3.25"                                      | 9.75"            | 12"                | 3.25"<br>Over Flutes    | 40 FT-LB       | N/A                 |      |
|   | 5/8"  | Normal<br>Weight   | 3000  | Hilti Kwik Bolt TZ   | ESR-1917   | 3.125"                                     | 4"               | 32"                | 5"                      | 60 FT-LB       | 2236 lb             |      |
|   | 5/8"  | Normal<br>Weight   | 3000  | Hilti Kwik Bolt TZ   | ESR-1917   | 4"   | 4"               | 32"                | 6"                      | 60 FT-LB       | 3026 lb             |      |
| B   | CONCF<br>ADJAC<br>CONCF<br>CONCF<br>TESTIN<br>TESTIN<br>INSPEC<br>SUBMI   | RETE SLAB E<br>ENT DETAIL<br>RETE EDGE D<br>IG OF EXPAN<br>IG SHALL BE<br>CTOR AND A<br>TTED TO OSI  | DGES, 32<br>FOR ADD<br>DISTANCE<br>NSION AN<br>DONE IN<br>REPORT<br>HPD | CHORS PER 2019<br>THE PRESENCE<br>OF THE TEST RES                        | (i.e CORNI<br>I ALLOWABL<br>CBC, 1910A<br>OF THE SPE<br>SULTS SHAL | ER). SEE<br>E<br>5: P<br>CIAL<br>L BE5 4 8 | E Co<br>D<br>-19 |                    | - 32"<br>(MIN)          | SP<br>SP       | 48"<br>(MIN)        | -    |
|   | DIF   |  | ENSION 1  | IEST OR TORQUE   |  |  |                  | - ds               | 0                       | <br> <br>      |                     |      |
|   | (ii) AC   | CEPTANCE C   | RITERIA   | P  | ATE: 04  | /28/20                                     | )19              | ,                  | 7                       |                |                     |      |
|   | DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO     OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY     TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER     BECOMES LOOSE. |  |   |  |  |  |                  |                    |                         |                |                     |      |
|   | TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED     TYPICAL CONCRETE EDGE DETAIL     WITHIN THE FOLLOWING LIMITS: WEDGE TYPE : 1/2 TURN OF THE     NUT                          |  |   |  |  |  |                  |                    |                         | -              |                     |      |
|   | . ,   |  |   | EST ALL ANCHOR   |  |  |                  |                    |                         |                |                     |      |
| D   |   |  |   | STEEL REINFORG   |  | ICRETE S                                   | LAB              |                    |                         |                |                     |      |
|   |   |  |   | ENGAGEMENT O   | F NUT & WA   | SHER.                                      |                  |                    |                         |                |                     |      |
|   |   |  |   | METAL DECK   |  |  |                  |                    | <b>\</b>                | _              |                     |      |
| А   | tight<br>Requii   | (THE SNUG-1<br>RED TO BRIN   | FIGHT CC  | BY 3/4 TURN OF T<br>NDITION IS DEFIN<br>ONNECTED PLIES<br>NLESS OTHERWIS | IED AS THE<br>INTO FIRM  | TIGHTNE                                    | SS               |                    | $\left( \right)$        | Math           | HAN ROBER           | Nau  |
| В   |   |  |   | LL BE 1/16" LARG<br>16) FOR CONCRE                                       |  | LT SIZE                                    |                  |                    |                         |                | No. 4197            |      |
| С   | TESTIN<br>TENSIO  | UGH-BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND<br>NG (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN<br>ON DO NOT REQUIRE TENSION TESTING) IN ACCORDANCE WITH<br>IREMENTS FOR POST-INSTALLED ANCHORS. |   |  |  |  |                  |                    |                         |                |                     |      |













