合格標準表

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 採購項次 | 檢測項目 | 合格標準 | 測試結果 | 合格/ 不合格 |
| 1地圖地形處理能力 | 1. 能以錨點ANCHORXY(1) Anchor point specification及座標(2)方式描述區域(3)、污染源(4)及污染受體(5)等平面資料，並在經緯度上能以卡笛生座標(Cartesian X- and Y-coordinates)及極座標(polar) (6)標識並能和UTM (7)位置表示法進行轉換 | Able to read one or multiple files that contains:   1. Anchor points 2. Coordinates (Cartesian, polar and UTM) that 3. Domain 4. Source 5. receptor. 6. Polar coordinates 7. UTM coordinates   (aermap\_testcase\NW\_Durham\ned.inp)  DOMAINXY- utm |  | □合格 □不合格 |
| 1. 能標註多重(1?)區域 (Domain) DOMAINXY範圍(2)及邊界(2), 並標示區域包含之地形(3)、污染源及污染受體 | Able to read one or multiple files that contains:   1. multiple domains and 2. terrain, 3. sources 4. receptors   (aermap\_testcase\NW\_Durham\ned.inp)  A similar relationship would exist for one or more NED files. |  |  |
| 1. 能處理汚染源位置 (1),高度(2)及所在地形(3), | Able to process source information such as:  1 . location  2. elevation  3. its terrain  aermap\_testcase\NAD\_Gap\GAP.inp |  |  |
| 1. 污染源型式包含單點(1),量體 (2)(VOLUME),矩形區域 (3),多邊形區域 (4),圓形區域 (5) | Able to process source information:   1. point, 2. volume, 3. rectangular area, 4. poly-area and 5. circular area.   aermap\_testcase\NAD\_Gap\GAP.inp |  |  |
| 1. 能處理污染受體位置(1),高度(2),所在地形(3) | Able to process recepter information such as:  1 . location  2. elevation  3. its terrain  aermap\_testcase\NAD\_Gap\GAP.inp |  |  |
| 1. 能處理地形資料之水平及垂直資料 | Able to process recepter information such as:   1. Elevation and scale   aermap\_testcase\NAD\_Gap\GAP.inp using demfiles |  |  |
| 1. 高度資料能由地理資料標示 (1),也能執行時輸入指定值 (2-Aerscreen) | Able process terrain information:   1. Terrain input file 2. User input   aermap\_testcase\NAD\_Gap\GAP.inp? |  |  |
| 1. 能連結不同格式(1)之多重區域, 並能處理於邊界邊際上(2)之污染受體(3?) | Able to read one or multiple files that contains:   1. Different format 2. Edge receptors   aermap\_testcase\NAD\_Gap\NW\_Durham |  |  |
| 1. Debug output files具有異常情形除錯(Debug)(1)能力,輸出包含所處理的污染源(2)、污染受體(3)及高度(4)等地理元件、參數(5)及地理註記(6)資訊 | aermap\_testcase\NAD\_Gap\GAP.inp  Able to display:   1. Debug option 2. Source 3. Receptor 4. Parameter 5. Terrain info   DEBUGOPT ALL  -Specified output file­­ |  |  |
| 二、氣象處理能力 | 1. 能處理至小時區間表面觀察(surface observations)的氣象資訊 | Able to process hourly surface observation information  \aermet\_test\_cases\_18081\aermet\_def\_testcases\_18081 |  |  |
| 1. 現場(on-site)或場地特定評估程式(site-specific measurement program)的地理資料 | Able to process:   1. Onsite terrain info   \aermet\_test\_cases\_18081\aermet\_def\_testcases\_18081 |  |  |
| 1. 由基本觀察氣象資訊中能萃取(extraction)高階氣象資訊 | Able to process meteorology information through:   1. Extraction of upper air data   \aermet\_test\_cases\_18081\aermet\_def\_testcases\_18081 |  |  |
| 1. 能由進行氣象資訊之資訊品質評估(quality assessment) | Able to process meteorology information through:   1. QA of upper air data   \aermet\_test\_cases\_18081\aermet\_def\_testcases\_18081 |  |  |
| 1. 能進行地表,高空及特定指定等各類型氣象資訊之合併 | Able to process meteorology information through:   1. Merging different meteorology information   \aermet\_test\_cases\_18081\aermet\_def\_testcases\_18081 |  |  |
| 1. 能處理生成模擬預處理之氣象資料 | Able to display:   1. Meteorology simulation result   \aermet\_test\_cases\_18081\aermet\_def\_testcases\_18081 |  |  |
| 三、模擬能力 | 1. 能模擬整合地理(1)、氣象(2)資訊之指定污染源(3)、污染受體(4)於特定高度 (5)之預期結果 | \aermod\_test\_cases\_18081\aermet\_def\_16216\_aermod\_16216r  Simple test case |  |  |
| Able to process simulation information through:   1. AERMAP file 2. AERMET file 3. Source 4. Receptor 5. Elevation |  |  |
| 1. 能依指定平面及模擬影響情況 | Able to process :   1. Specified terrain   \aermod\_test\_cases\_18081\aermet\_def\_16216\_aermod\_16216r  Simple test case |  |  |
| 1. 能依污染受體所在不同地形進行不同情況模擬 | Able to process simulation result through:   1. Different source terrains   \aermod\_test\_cases\_18081\aermet\_def\_16216\_aermod\_16216r  Different testcases |  |  |
| 1. 能依不同時間之氣象資料進行不同模擬 | Able to process simulation result through:   1. Different meteorology information   \aermod\_test\_cases\_18081\aermet\_def\_16216\_aermod\_16216r  Different aermet testcases |  |  |
| 1. 能依多重型式污染源型式(allsrcs.inp)(點, 總量,區域)進行模擬 | Able to process source information such as:   1. Point 2. Volume 3. Area   \aermod\_test\_cases\_18081\aermet\_def\_16216\_aermod\_16216r  Simple test case(Point), allsrcs.inp(volume,area) |  |  |
| 1. 能於模擬結果顯示污染源、污染受體、地理選項、多重污源貢獻比例 | Able to display:   1. Source 2. Reception 3. Terrain 4. Multiple source contribution (?)   \aermod\_test\_cases\_18081\aermet\_def\_16216\_aermod\_16216r  allsrcs.out |  |  |
| 1. 能模擬一氧化碳擴污染影響情況 | Able to process source information such as:   1. CO   ORD15CO.inp  Parking lot |  |  |
| 1. 能模擬PM10, PM2.5擴污染影響情況 | Able to process source information such as:   1. PM10, PM2.5   testpm25.inp  testpm10\_1986.inp |  |  |
| 四、介面能力 | 1. 具備和模擬軟體(1)的互動式介面並產生時序結果(2) | Able to display:   1. Result screen 2. Result output file   D:\EPA\AERScreen\aerscreen\_test\_cases\area |  |  |
| 1. 能以介面指定模擬污染源型式包含點，矩型,圓型區域 | Able to specify in screen input:   1. Types of sources   D:\EPA\AERScreen\aerscreen\_test\_cases\point,area,circle etc |  |  |
| 1. 能以介面指定模擬建物下洗(Building downwash)能力 | Able to specify in screen input:  -Downwash option  D:\EPA\AERScreen\aerscreen\_test\_cases\area  AERSCREEN\_AREA |  |  |
| 1. 能以介面指定模擬最高低温限制 | Able to specify in screen input:  -Max/Min Temperature  D:\EPA\AERScreen\aerscreen\_test\_cases\area  AERSCREEN\_AREA |  |  |
| 1. 能以介面指定模擬地形高度 | Able to specify in screen input:  -Terrain elevation  D:\EPA\AERScreen\aerscreen\_test\_cases\area  AERSCREEN\_AREA |  |  |
| 1. 能以介面指定模擬地表特性 | Able to specify in screen input:  -Terrain information  D:\EPA\AERScreen\aerscreen\_test\_cases\area  AERSCREEN\_AREA |  |  |
| 1. 能以介面指定模擬影響平均區間為3小時/8小時/24小時及年度 | Able to specify simulation result as:   1. 3 hours 2. 8 hours 3. 24 hours 4. yearly   D:\EPA\AERScreen\aerscreen\_test\_cases\area  AERSCREEN\_AREA |  |  |