



UNDERSTANDING ACCEPTANCE ACTIONS WITH MATERIAL SETS AND OPTIONS

For material acceptance, items have materials sets associated that specify the materials that have requirements. An item can have one or more material sets (i.e. CRUSHED AGGREGATE COARSE has CBC 5A, CBC 6A and CBC 7A material sets).

Acceptance Actions specify the Sample Record tests or DWR Acceptance required for each material associated with the Material Set.

Acceptance Actions can have one or more Options for acceptance (i.e. QPL or Test and Cert).

If there are multiple Options, you only need to satisfy one of the Options under the Acceptance Action to satisfy the requirement.

When you look at the Checklist report you can tell if there are multiple Options under an Acceptance Action as they will display as follows:

| | | | | |
|---|-------|------|-----------------------------|-------------------|
| 702.01.03.01 | 0.004 | 4.89 | Acceptance: Emulsion Accept | |
| CSS-1h, Cationic Slow Set Emulsion-hard | | | QPL | Daily Work Report |
| CSS-1h | | | | DWR Date Insp |
| | | | | 08/25/2019 Gary |
| | | | Test and Cert | Daily Work Report |
| | | | | Sample Record |

Each Option lists all the required actions. In the example below, the QPL Option requires a DWR Acceptance Record for QPL Verified where the Test and Cert Option requires both a DWR Acceptance for Emulsion Sample Witnessed and a Sample Record with the Emulsion Properties Test. You only need to satisfy one of the Options.

| | | | | | | | | | |
|---------------------------------|-------------------|---------------------------|--------------|---------------------|-----|------|----------|----------|--|
| Acceptance: Emulsion Acceptance | | | | | | | | | |
| QPL | Daily Work Report | QPL Verified | | | | | 1/Source | 2 - 1 QT | |
| Test and Cert | Daily Work Report | Emulsion Sample Witnessed | | | | | 1/35 TON | 2 - 1 QT | |
| | Sample Record | Project Acceptance | Test Results | Emulsion Properties | FLD | MTRL | 1/35 TON | 2 - 1 QT | |

You do not need to zero out the Action Rates on other Options that are not being used as you will not receive estimate exceptions on them.



MONTANA DEPARTMENT OF TRANSPORTATION
AASHTOWare Project CONSTRUCTION and MATERIALS



| Material | Conv Factor | Material Qty | Option | Acceptance Type | Sample Type / Field Insp Value | Acpt Method | Test Method | Smpl Resp | Test Resp | Rate/Freq | Size/ Units | Est Req | Tkn Def |
|----------------|-------------|--------------|-------------|-----------------------------|--------------------------------|-------------|-------------|--------------------|-------------|-------------------|---------------------------|-----------|---------|
| Project | Catg | Line# | Item | | | | | Current Qty | Unit | Unit Price | Qty Posted to Date | | |
| 9452051000 | 0001 | 903010 | 402020320 | EMULSIFIED ASPHALT-FOG SEAL | | | | 1,150.000 | GAL | 8.180 | | 1,150.000 | |

| | | | | | | | | | | | | | | | |
|--------------|-------|------|---|---------------------------------|-------------------|---------------------------|--------------|---------------------|----------|----------|-----------------|---|---|---|---|
| 702.01.03.01 | 0.004 | 4.89 | CSS-1h, Cationic Slow Set Emulsion-hard | Acceptance: Emulsion Acceptance | | | | | | | | | | | |
| CSS-1h | | | | QPL | Daily Work Report | QPL Verified | | | | 1/Source | 2 - 1 QT | 1 | 1 | 1 | 0 |
| | | | | | DWR Date | Inspector | Seq # | Field Insp Value | Comments | Rep Qty | Attach Filename | | | | |
| | | | | | 08/25/2019 | Gary Berg | 1 | QPL Verified | | 1,150.00 | No | | | | |
| | | | | Test and Cert | Daily Work Report | Emulsion Sample Witnessed | | | | 1/35 TON | 2 - 1 QT | 1 | 1 | 0 | 1 |
| | | | | | Sample Record | Project Acceptance | Test Results | Emulsion Properties | FLD MTRL | 1/35 TON | 2 - 1 QT | 1 | 1 | 0 | 1 |

****NOTE: Even though the Checklist report shows a deficiency under the Test and Cert option, it will not create an estimate exception because the QPL Option was satisfied.**

If a Material Set has multiple Acceptance Actions, each Acceptance Action must be satisfied (i.e. COVER-TYPE 1 has IA Comparison – Fracture, IA Comparison – Sieve and Mix Design Verification)

| Project | Catg | Line# | Item | Current Qty | Unit | Unit Price | Qty Pos |
|------------|------|-------|------------------------|-------------|------|------------|---------|
| 9393124000 | 0001 | 0140 | 409000010 COVER-TYPE 1 | 332,990.000 | SQYD | 0.470 | |

| Material | Conv Factor | Material Qty | Option | Acceptance Type | Sample Type / Field Insp Value | Acpt Method | Test Method | Smpl Resp | Test Resp | Rate/Freq | Size/ Units | E |
|--------------|-------------|--------------|--------------------------------|--|--------------------------------|-----------------------|--------------|----------------------|-----------|-----------|---------------|-------|
| 701.02.08.01 | 1.000 | 0.00 | Crushed Cover Aggregate Type 1 | Acceptance: IA Comparison - Fracture | | | | | | | | |
| CCA Type 1 | | | | IA - Fracture | Sample Record | Independent Assurance | Test Results | IA - Fracture - Mtrl | DAL | MTRL | 1/192500 SQYD | 30 LB |
| | | | | | Sample Record | Independent Assurance | Test Results | IA - Fracture - Dist | DAL | DAL | 1/192500 SQYD | 30 LB |
| | | | | | Sample Record | Independent Assurance | Test Results | IA - Fracture - Fld | DAL | DAL | 1/192500 SQYD | 30 LB |
| | | | | | Sample Record | Independent Assurance | Test Results | IA Fracture Comp | DAL | MTRL | 1/192500 SQYD | 30 LB |
| | | | | Acceptance: IA Comparison - Sieve Analysis | | | | | | | | |
| | | | | IA - Sieve | Sample Record | Independent Assurance | Test Results | IA - Sieve - Dist | DAL | DAL | 1/192500 SQYD | 30 LB |
| | | | | | Sample Record | Independent Assurance | Test Results | IA - Sieve - Fld | DAL | DAL | 1/192500 SQYD | 30 LB |
| | | | | | Sample Record | Independent Assurance | Test Results | IA - Sieve - Mtrl | DAL | MTRL | 1/192500 SQYD | 30 LB |
| | | | | | Sample Record | Independent Assurance | Test Results | IA Grading Comp | DAL | MTRL | 1/192500 SQYD | 30 LB |
| | | | | Acceptance: Mix Design Verification | | | | | | | | |
| | | | | Mix Design | Daily Work Report | Mix Design Verified | | | | 1/Source | | 30 LB |

When a work item is added to a DWR and an item posting created, the system creates the DWR Acceptance record(s) based on the Material Set selected in the item posting. You only need to satisfy Acceptance Actions for Material Sets that are posted to. **You do not need to zero out the Action Rates on Material Sets that are not used as you will not receive estimate exceptions on them.**

In this example for STRIPING-WHITE PAINT, Waterborne Paint and Type 2 Beads were used and the Waterborne-Type 2 Beads Material Set was selected and posted to in the DWR. There is no need to zero out the Action Rates on the Waterborne-Type 1 Beads Material Set materials



MONTANA DEPARTMENT OF TRANSPORTATION
AASHTOWare Project CONSTRUCTION and MATERIALS



because there is no Material Quantity posted and you will not get estimate exceptions or deficiencies on the Checklist report.

| Project | Catg | Line# | Item | Current Qty | Unit | Unit Price | Qty Posted to Date |
|------------|------|-------|--------------------------------|-------------|------|------------|--------------------|
| 9393124000 | 0002 | 0300 | 620013000 STRIPING-WHITE PAINT | 1,269.000 | GAL | 29.900 | 618.000 |

| Material | Conv Factor | Material Qty | Option | Acceptance Type | Sample Type / Field Insp Value | Acpt Method | Test Method | Smpl Resp | Test Resp | Rate/Freq | Size/Units | Est | Req | Tkn | Def |
|----------|-------------|--------------|--------|-----------------|--------------------------------|-------------|-------------|-----------|-----------|-----------|------------|-----|-----|-----|-----|
|----------|-------------|--------------|--------|-----------------|--------------------------------|-------------|-------------|-----------|-----------|-----------|------------|-----|-----|-----|-----|

| | | | | | | | | | | | | | | | |
|-------------------------|-------|------|--|------------------------------|-------------------|--------------|--|--|--|----------|--|---|---|---|---|
| 714.04.00.01 | 1.000 | 0.00 | | Acceptance: QPL Verification | | | | | | | | | | | |
| Waterborne Paint | | | | QPL | Daily Work Report | QPL Verified | | | | 1/Source | | 1 | 0 | 0 | 0 |
| Waterborne-Type 1 Beads | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|-------------------------|-------|--------|--|------------------------------|-------------------|--------------|------------------|----------|---------|----------|----------|---|---|---|---|
| 714.04.00.01 | 1.000 | 618.00 | | Acceptance: QPL Verification | | | | | | | | | | | |
| Waterborne Paint | | | | QPL | Daily Work Report | QPL Verified | | | | 1/Source | | 1 | 1 | 1 | 0 |
| Waterborne-Type 2 Beads | | | | | | | | | | | | | | | |
| | | | | DWR Date | Inspector | Seq # | Field Insp Value | Comments | Rep Qty | Attach | Filename | | | | |
| | | | | 08/21/2019 | Artie Hoops | 1 | QPL Verified | | 618.00 | No | | | | | |