This document explains the business rules for P4 deployment calculations.

In general, the deployment classification for a project derives from four factors:
(1) What is the project type? (2) Is there a watershed geography for the project?
(2) What purchases are under the project? (4) For those purchases, do they have non-zero and > 0 quantity, what is their purchase status (eg. funded, planned), and do they have a non-empty Convrsn./Excpn. Field?

When an “And” follows a new line in an “IF” clause, assume that the previous section and the following section are grouped separately. For example:

IF X or Y or Z
And M or P or Q

Is equivalent to If ((X or Y or Z) and (M or P or Q))

Also, the phrase “[Purchase Status] > 0” means the Quantity for that purchase is greater than zero and non-empty. For example, “funded > 0” means that the purchase has a “Quantity” field that is greater than zero and non-empty, and that the Purchase Status is 'Funded', 'Completed', 'On Hold'. For “planned > 0”, the Purchase Status is “Planned”

Furthermore, these rules are mutually exclusive (as indicated by the “ELSE IF” statement). Only one rule can be applied (eg. Type 2 – Coastal) to each project. The first rule (Type 1 – Riverine) is applied first, if possible, and the code proceeds down to the final ELSE statement (Type 4) to determine the deployment rule used for the project.

Finally, we have highlighted in yellow those rules that will be impacted by the Project Type enhancement

**Type 1 (Meets RiskMAP Deployment Criteria = YES, Is Deployment Intended in the Future = NO)**

**Riverine**

IF planType is ‘A’ (Traditional RiskMAP) or ‘B ’ (Levee or, Exception/Conversion)

And has watershed and Discovery/Discovery Meeting(s) funded > 0, and Riverine/Non-Regulatory Products/Flood Risk Map funded >0, and Riverine/Non-Regulatory Products/Flood Risk Report funded >0, and Riverine/Non-Regulatory Products/Data Delivered in Flood Risk Database funded >0
**Then** Set “Meets RiskMAP Deployment Criteria = YES, Is Deployment Intended in the Future = NO” and Fiscal year/quarter deployable equals maximum fiscal year/quarter from the funded purchases mentioned above.

**Coastal**

**Else If** same requirements as “Type 1 Riverine” section from above, except removing “and has watershed” and change references of “Riverine” to “Coastal”.

**Then** same results as “Type 1 Riverine” from above

**Levee**

**Else If** If planType is ‘B’ (Levee), and Levee/Non-Accredited Levee Data Evaluation and Selection of Mapping Options funded > 0

**Then** Set “Meets RiskMAP Deployment Criteria = YES, Is Deployment Intended in the Future = NO” and Fiscal year/quarter deployable equals fiscal year/quarter from the funded Levee/Non-Accredited Levee Data Evaluation and Selection of Mapping Options purchase mentioned above.

**Conversion/Exception**

**Else If** planType is ‘B’ (Conversion/Exception) and Convrsn./Excptn. Field (in purchase) is not empty and is not equal to “Not in List / Not Yet Assigned” and funded > 0

**Then** Set “Meets RiskMAP Deployment Criteria = YES, Is Deployment Intended in the Future = NO” and Fiscal year/quarter deployable equals fiscal year/quarter from the funded purchase with Convrsn./Excptn. Field non-empty.

**Type 2 (Meets RiskMAP Deployment Criteria = YES, Is Deployment Intended in the Future = YES)**

**Riverine**

**If** planType is ‘A’ (Traditional RiskMAP) or ‘B ’ (Levee or, Exception/Conversion),

And has watershed, and Discovery/Discovery Meeting(s) planned > 0, and Discovery/Discovery Meeting(s) funded > 0, and Riverine/Non-Regulatory Products funded > 0

**Then** Set “Meets RiskMAP Deployment Criteria = YES, Is Deployment Intended in the Future = YES” and Fiscal year/quarter deployable equals maximum fiscal year/quarter from the planned and funded purchases mentioned above

**Coastal**

**Else If** same requirements as “Type 1 Riverine” section from above, except removing “and has watershed” and change references of “Riverine” to “Coastal”.

**Then** same results as “Type 2 Riverine” from above
**Levee**

**ELSE IF** If planType is ‘B’ (Levee), and Levee/Non-Accredited Levee Data Evaluation and Selection of Mapping Options planned \( > 0 \)

**THEN** Set “Meets RiskMAP Deployment Criteria = YES, Is Deployment Intended in the Future = YES” and Fiscal year/quarter deployable equals fiscal year/quarter from the planned Levee/ Non-Accredited Levee Data Evaluation and Selection of Mapping Options purchase mentioned above.

**Conversion/Exception**

**ELSE IF** planType is ‘B’ (Conversion/Exception) and Convrsn./Excptn. Field (in purchase) is not and is not equal to “Not in List / Not Yet Assigned” and planned \( > 0 \)

**THEN** Set “Meets RiskMAP Deployment Criteria = YES, Is Deployment Intended in the Future = YES” and Fiscal year/quarter deployable equals fiscal year/quarter from the funded purchase with Convrsn./Excptn. Field non-empty.

**Type 3 (Meets RiskMAP Deployment Criteria = NO, Is Deployment Intended in the Future = YES)**

**IF** planType is ‘A’ (Traditional RiskMAP) or ‘B ’ (Levee or, Exception/Conversion) or C (Non-Deployable)

And has watershed or Discovery/Discovery Meeting(s) planned/funded/on hold/completed \( > 0 \) or Riverine/Non-Regulatory Products planned/funded/on hold/completed \( > 0 \) or Non-Regulatory Products planned/funded/on hold/completed \( > 0 \)

**THEN** Set “Meets RiskMAP Deployment Criteria = NO, Is Deployment Intended in the Future = YES” and Fiscal year/quarter deployable equals maximum fiscal year/quarter from the funded purchases mentioned above.

**Type 4 (Meets RiskMAP Deployment Criteria = NO, Is Deployment Intended in the Future = NO)**

**ELSE**

**THEN** Set “Meets RiskMAP Deployment Criteria = NO, Is Deployment Intended in the Future = NO” and Fiscal year/quarter deployable to be empty.

*In Summary, if we were to remove the “project type B” (Levee or, Exception/Conversion) from P4, we would simply need to*

1) **Change the business rules for Types 1 and 2 – Levee to only use the secondary scope purchase item “Levee/Non-Accredited Levee Data Evaluation and Selection of Mapping Options” to identify Levee projects.**

2) **Remove the Types 1 and 2 – Conversion/Exception sections of the code entirely**
3) For all other rules (eg. Types 1 and 2 Riverine/Coastal and Type 3), we can just remove the “or ‘B’ (Levee or, Exception/Conversion)” section of the rule (as these projects are now classified as “A”).