

(Riser Logic + Complexity Logic)

1. RISER SELECTION LOGIC – FLOWCHART

START

V

V

V

V

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

[illegible]

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VV

- Riser name

- Then END. Determine RISER SIDES:

- EAST side?
- WEST side?

|

v

For EACH side:

- Find nearest riser ABOVE
- Find nearest riser BELOW

|

v

Display BOTH results:

EAST SIDE:

↑ nearest_above

↓ nearest_below

WEST SIDE:

↑ nearest_above

↓ nearest_below

|

v

END

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2. COMPLEXITY CALCULATION – FLOWCHART

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START

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v

Read "techs_per_install_raw"

Examples:

"1"

"2"

"60%1 and 40%2"

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v

Is it a SIMPLE value (1 or 2)?

||

YES NO (percentage mix)

| |

v v

Simple Logic: Percentage Logic:

If = 1:

complexity = 30%

required_techs = 1

If = 2:

complexity = 80%

required_techs = 2

For mixed data:

Extract p1% and p2%

Formula:

$$\text{complexity} = (p1 * 30 + p2 * 80) / 100$$

Required techs:

If $p2 \geq 50 \rightarrow 2$ techs

Else $\rightarrow 1$ tech

|

v

Check ADMIN OVERRIDE?

|

|---- YES \rightarrow Use ADMIN values

|

|---- NO \rightarrow Use calculated values

|

v

END (return complexity_score + required_techs)

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END OF FLOWCHART DOCUMENT