Stressors Selection, Coverage and Reach Requirements

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Stressor Selection and 300m Coverage Statistics

- Coverage Statistics are derived from ewen_1_0105
- PIE-D Values are best case dual launch
- Red ≈ 4dB ≈ 88%; Orange ≈ 4.5dB ≈ 97%; Green ≈ 5dB ≈ 99%

	Index	A1	A2	A3	A4	PIE-D	simplex	duplex
Pre	10	0.168	0.188	0.527	0.117	3.82	93.5%	87.4%
	23	0.369	0.025	0.445	0.162	4.57	98.5%	97%
	25	0.255	0.176	0.212	0.357	5.02	99.5%	99%
split	5	0.000	0.513	0.000	0.487	3.83	93.5%	87.4%
	22	0.086	0.387	0.096	0.430	4.57	98.5%	97%
	24	0.139	0.338	0.134	0.389	4.99	99.5%	99%
post	15	0.254	0.453	0.155	0.138	4.20	94.5%	89.3%
	20	0.256	0.397	0.110	0.237	4.56	98.5%	97%
	23	0.163	0.398	0.125	0.314	4.92	99.5%	99%

Customer Statements on Reach Requirements

- Quotes taken from emails on reflector archive:
  - Cisco, July 2004:
    ”10GMMF must support a maximum distance of 300m not 220m, for FDDI-grade fiber”
  - Foundry Networks, July 2004:
    “Support a maximum distance of 300m”
  - Cisco, Nov. 2004:
    “The clear requirement is for LRM to reach 300m. Anything less at this point is a non-starter. The bar is not 220m. 10GBASE-SR and –LX4 are shipping and both reach 300m. Customers have the clear requirement to go 300m on MMF both installed and new OM3 fiber. This is reality today.”

- Does this imply we need to set the stressor PIE-D to 5dB, to achieve 99% Duplex Link Coverage, to meet the customer 300m reach requirement ?