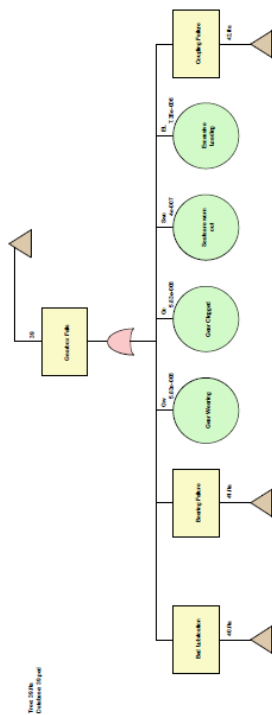
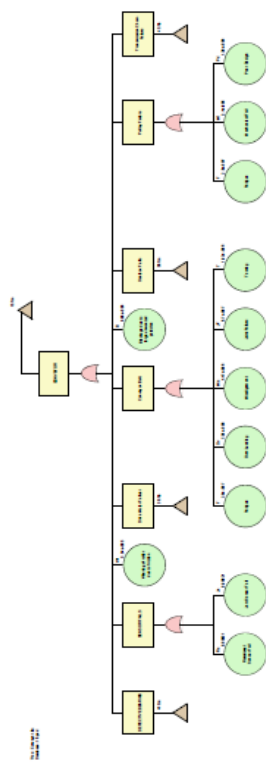


LAMPIRAN 1



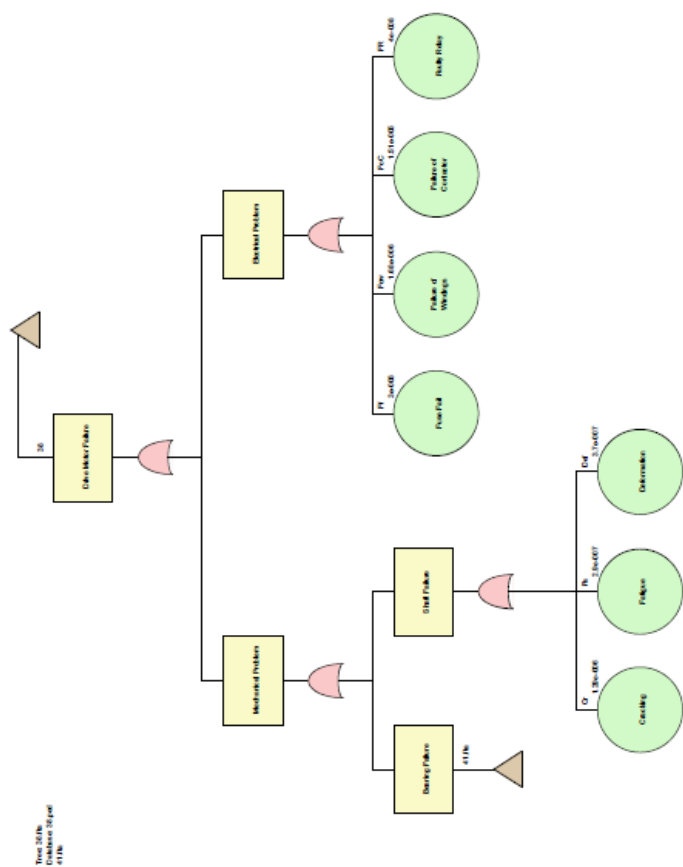
Gearbox Fails

LAMPIRAN 2



Conveyor

LAMPIRAN 3



Drive Motor Failure

LAMPIRAN 4

Hasil simulasi Open FTA dengan pendekatan *Monte Carlo*

Monte Carlo Simulation

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Tree : 41.fta **Bearing Failure**

Time : Fri Mar 07 17:11:48 2014

Note: Only runs with at least one component failure are simulated

Number of primary events = 6

Number of tests = 10000

Unit Time span used = 1.000000

Number of system failures = 10000

Probability of at least = 2.529997E-006 (exact)
one component failure

Probability of top event = 2.529998E-006 (+/- 2.529998E-008)

Rank	Failure Mode	Failures	Estimated Probability	Importance
1	Bm	2669	6.752563E-007 (+/- 1.307057E-008)	26.69%
2	BL	2204	5.576114E-007 (+/- 1.187752E-008)	22.04%
3	LBe	1990	5.034695E-007 (+/- 1.128617E-008)	19.90%
4	Ev	1740	4.402196E-007 (+/- 1.055346E-008)	17.40%
5	BF	1130	2.858897E-007 (+/- 8.504706E-009)	11.30%
6	BC	267	6.755093E-008 (+/- 4.134050E-009)	2.67%

Compressed :

Rank	Failure Mode	Failures	Estimated Probability	Importance
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1	BC	267	6.755093E-008 4.134050E-009)	(+/-	2.67%
2	BF	1130	2.858897E-007 8.504706E-009)	(+/-	11.30%
3	Ev	1740	4.402196E-007 1.055346E-008)	(+/-	17.40%
4	LBe	1990	5.034695E-007 1.128617E-008)	(+/-	19.90%
5	BL	2204	5.576114E-007 1.187752E-008)	(+/-	22.04%
6	Bm	2669	6.752563E-007 1.307057E-008)	(+/-	26.69%

Primary Event Analysis:

Event	Failure contrib.	Importance	Notes	
BC	6.76E-08	2.67%	<i>Bearing Contamination</i>	<i>Bearing Failure</i>
BF	2.86E-07	11.30%	<i>Bearing Fatigue</i>	
BL	5.58E-07	22.04%	<i>Bad Lubrication</i>	
Bm	6.75E-07	26.69%	<i>Bad Mounting</i>	
Ev	4.40E-07	17.40%	<i>Excessive vibration</i>	
LBe	5.03E-07	19.90%	<i>Lifetime of Bearing exceeded</i>	