

	Minimizing Ambulatory Vibrations – Group 8	Quality System Procedure Form	
		Doc. No: 5	Rev. 4
		Date: 04/15/17	Status: Draft

Fault Tree Analysis

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CHANGE RECORD:

Rev	Date	Description of Change	Authorization
1	10/26/17	Initial Draft	
2	11/26/17	Updated risks based on changes to IHA and Risk Summary.	
3	12/10/17	Added the introduction and appendix sections. Proofread the document.	
4	4/15/17	Nodes altered at respective gates	

During emergency transportation situations, patients are exposed to consistent and often severe vibrations. While undesirable for all patients, this is particularly dangerous for newborn infants. Studies have shown that the vibrations transferred to infants during transport by emergency vehicles can cause serious complications. Despite extensive research characterizing these vibrations, no commercially viable product has been brought to market. Our solution aims to enhance the standard neonate transportation incubator using a cost-effective, accessible solution. More specifically, our product implements affordable passive vibration damping materials to minimize the forces transferred to the neonate during transportation.

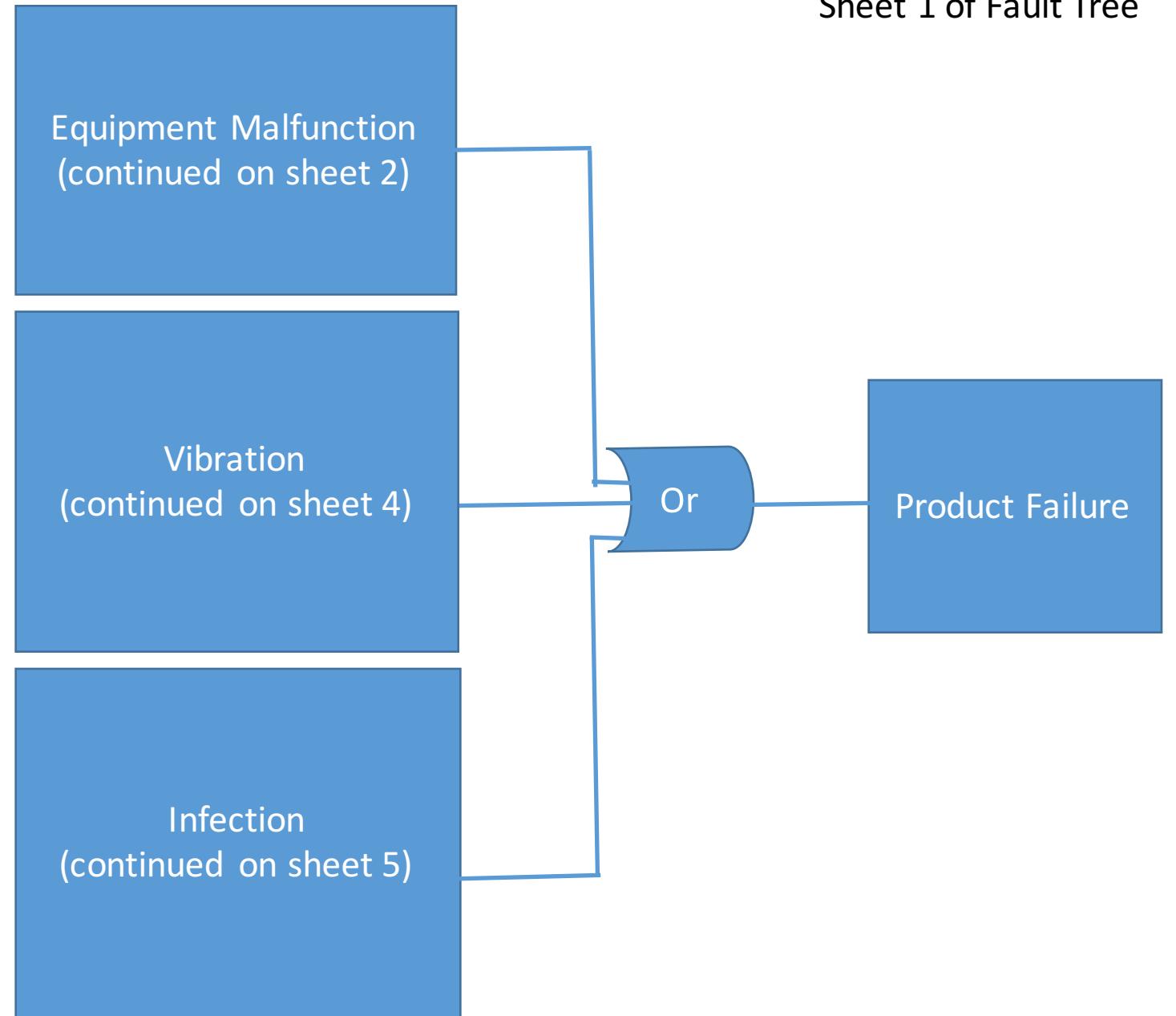
This document runs through a top-down approach of all the risks identified from the IHA and Risk Summary documents. It outlines what components malfunctioning will result in the risks/hazards occurring.

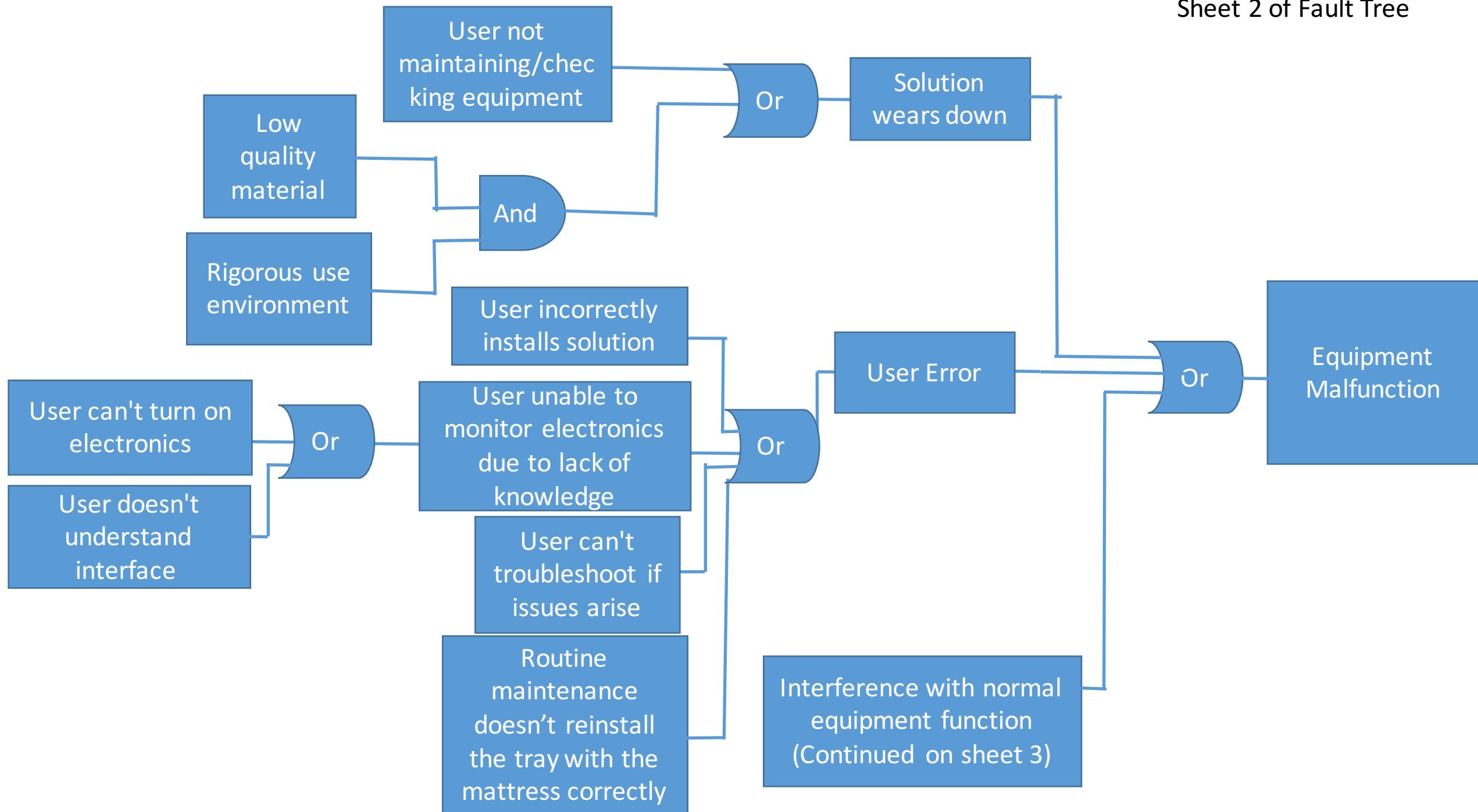
Rev. 4 Fault Tree

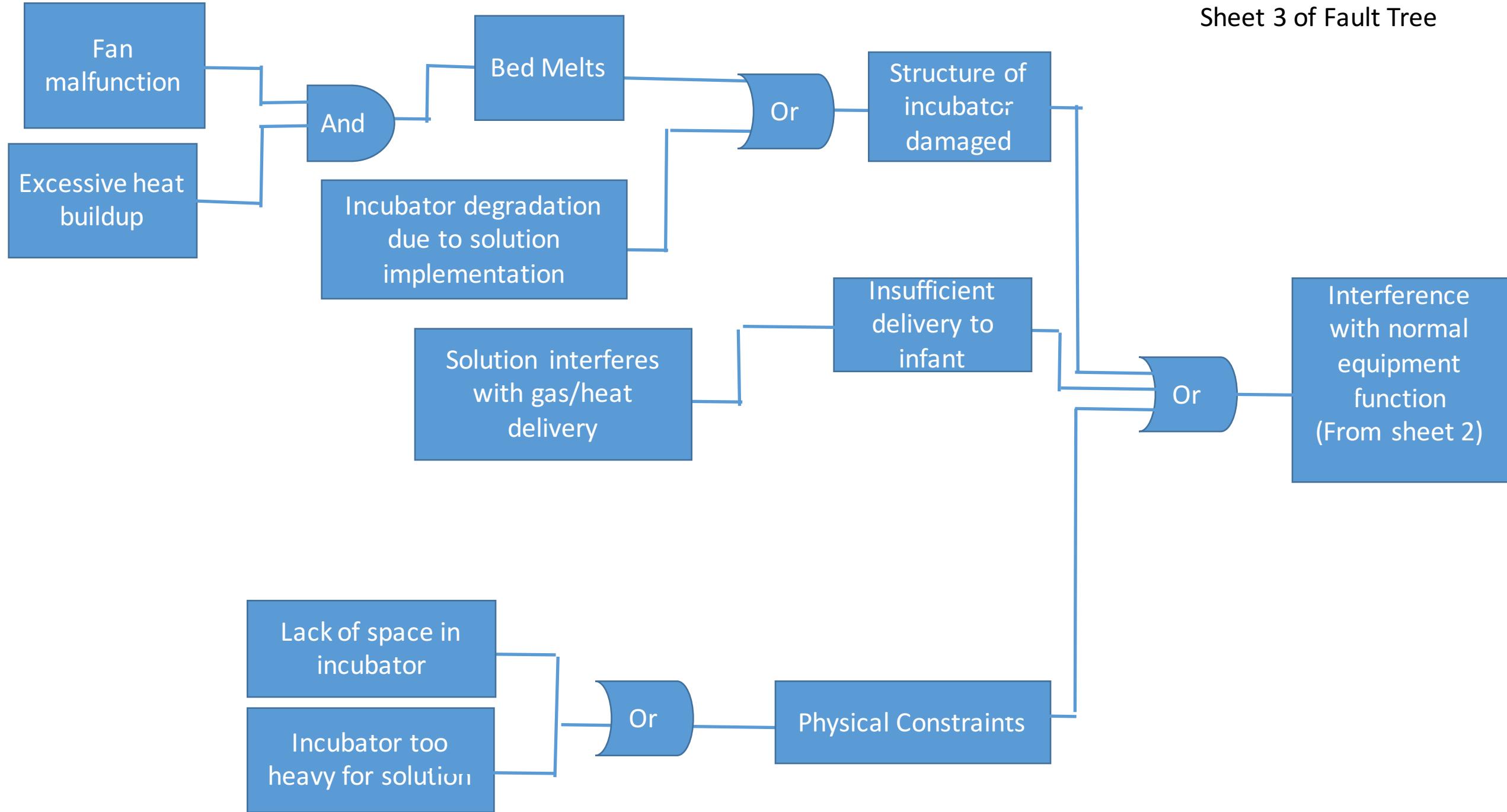
Group 8

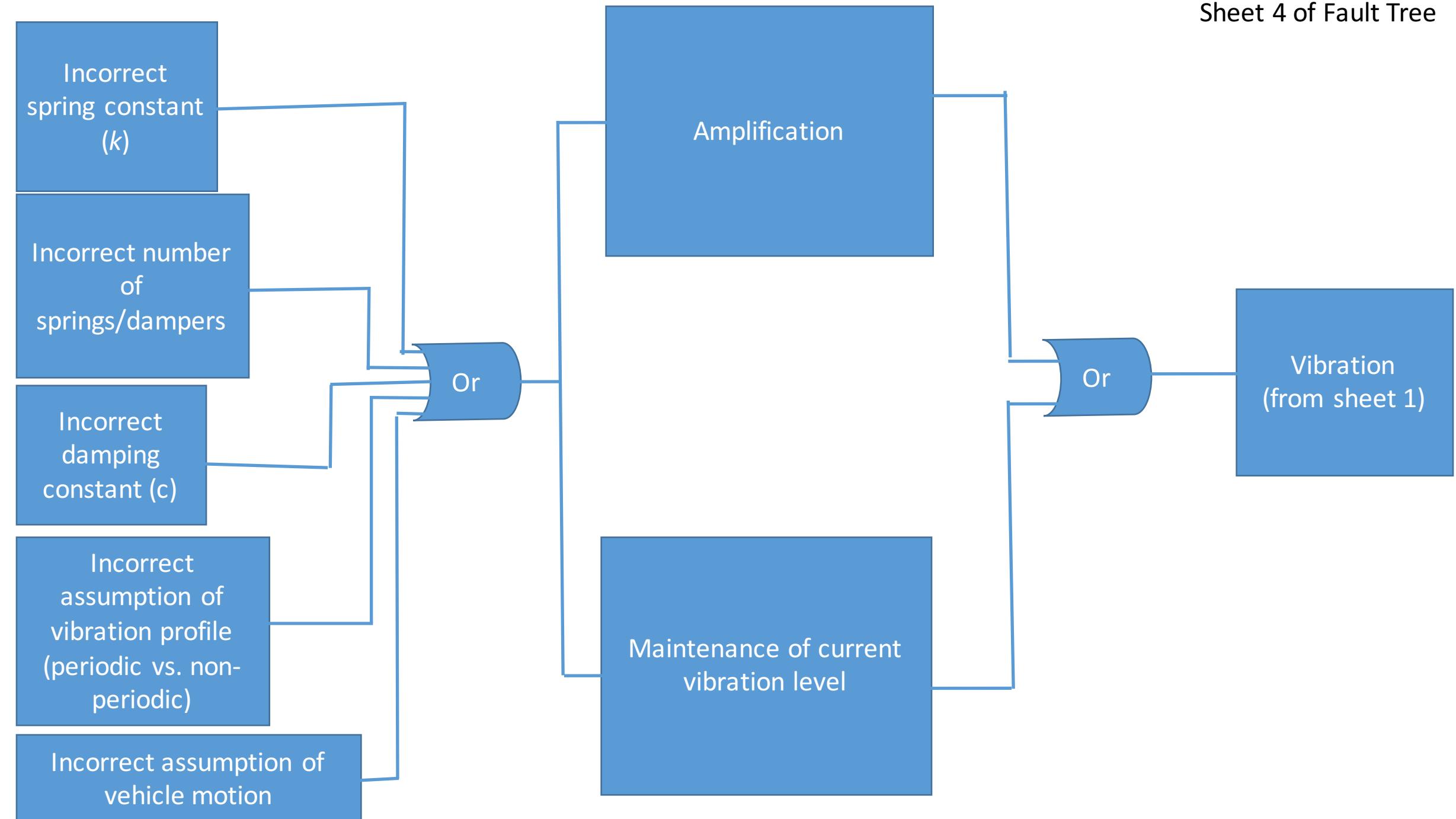
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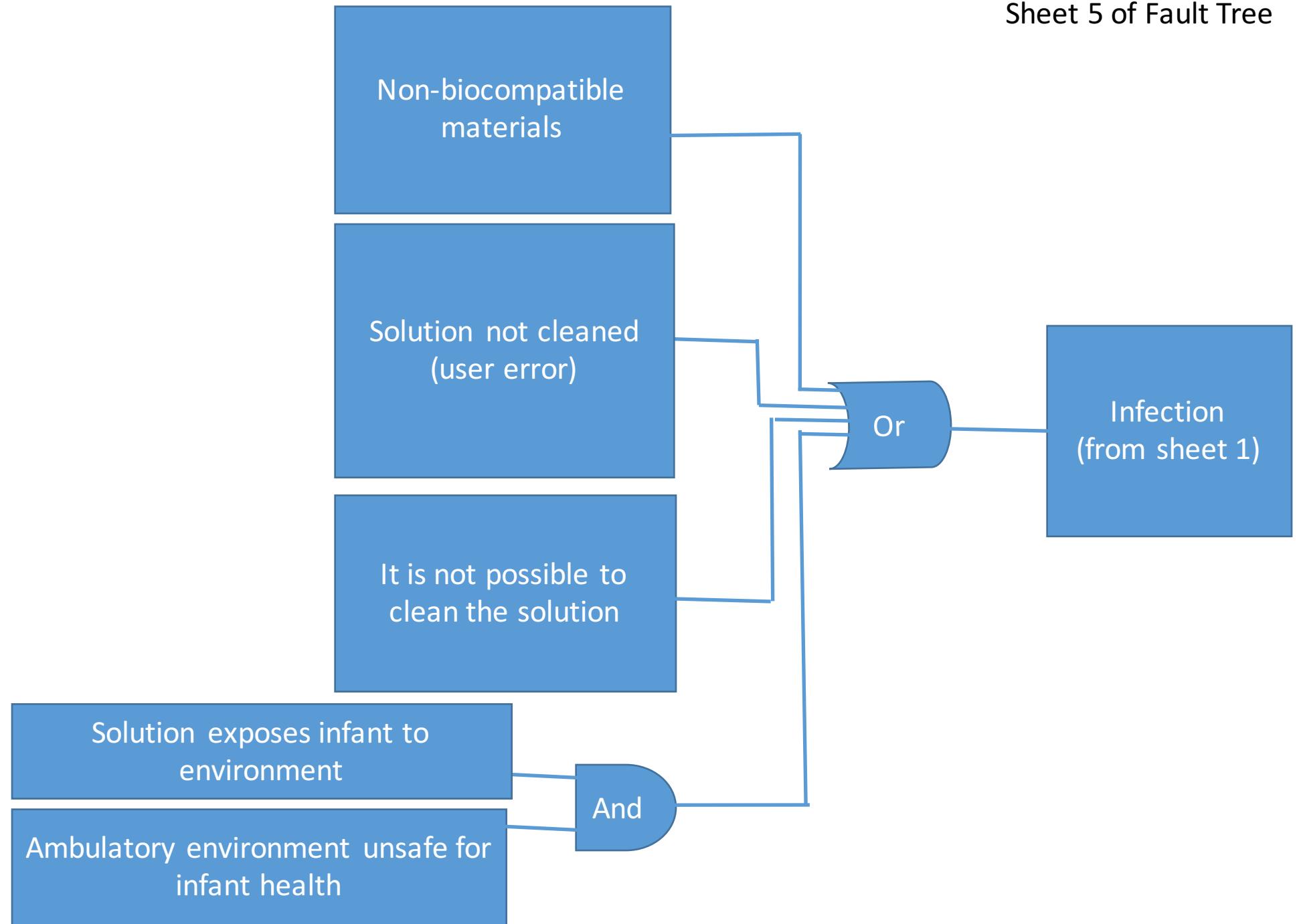
Last Updated: 04/15/17











Appendix

