Potential Failure Mode	Potential Failure Effect	Severity	Potential Cause Head pointer doesn't go back	Occurrence
Buffer overflows	Loss of data	(to beginning of buffer	6
UART receiving too many characters at			Supplying an entire block of	
once	Rx Over flow flag is set	,	7 text	8
			malloc did not	
Buffer not allocated	Hard Fault	Ţ	5 allocate	7
	Overwriting over		_	
Heap Size finishes	important memory locations	7	Too much space was requested Drinking water close to the	4
Water falls on KL25z	Complete loss of system	10) board	2

Controls	Detection	Risk Priority	
System throws an error/increase size of buffer	5	180	
Clear the flag and notice that all characters havent been received, also if terminal has option to delay input use it			
to space characters out Throw an error/ ask user to	3	168	
request for smaller space Throw an error/ ask user to	1	35	
request for smaller space	1	28	
Replace board	1	20	