

Federal Voting Assistance Program
 Comparative Risk Analysis of the Current UOCAVA Voting System and an Electronic Alternative Report
 Risk Analysis Questionnaire for an Electronic Voting System

THREAT VECTORS	LIKELIHOOD			IMPACT		
VOTING SCENARIO: <u>Electronic absentee voting system with balloting via Web interface, transmission via the Internet, and automated tabulation</u>	In the context of a Federal election, what percentage of the time do you think the threat would be most likely realized AND have an observable effect? Provide minimum and maximum values. Interpret this range of values as "I think this threat would be realized AND have an observable effect in [most likely] percent (%) of the time but this estimate could be as low as [minimum] % and as high as [maximum] %." (numbers DO NOT need to sum to 100)			In the context of a Federal election, assuming the threat is realized, what percentage of the time would it have a low, medium, and high impact? (numbers should sum to 100)		
Completed by: Cyber Security Expert 3. Data extracted.						
Voting Step: POST-ELECTION AUDIT	Minimum	Most Likely	Maximum	Low	Medium	High
ATTACKS						
INSIDER ATTACKS						
Attacks Against VRDB Types of threat vectors: Intentional modification of registration records; Intentional destruction of registration records; Intentional addition of fake registration records; VRDB intentional crash;	0	0	1	25	50	25
Attacks Against Post-Election Audit Types of threat vectors: Intentionally compromise auditors; Intentionally select audit samples non-randomly; Intentional modification of audit results; Intentional destruction of audit results;	0	0	1	10	80	10
UNINTENTIONAL DISRUPTIONS						
ERRORS AT LOCAL ELECTION OFFICE						
Errors in VRDB Types of threat vectors: Accidental modification of registration records; Accidental loss of registration records; Accidental destruction of registration records; Accidental addition of erroneous registration records; VRDB accidental crash;	1	5	10	25	50	25
Errors in Post-Election Audit Types of threat vectors: Accidental non-random selection of audit samples; Accidental modification of audit results; Accidental loss of audit results; Accidental destruction of audit results;	0	1	2	20	60	20
ACCIDENTAL DISRUPTIONS						
Disruptions by Natural Events Types of threat vectors: Weather-related; Earthquake; Outbreak;	0	1	3	1	1	98

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<p align="center">VOTING SCENARIO: Electronic absentee voting system with <u>balloting via Web interface, transmission via the Internet, and automated tabulation</u></p>	<p>In the context of a Federal election, what percentage of the time do you think the threat would be most likely realized AND have an observable effect? Provide minimum and maximum values. Interpret this range of values as "I think this threat would be realized AND have an observable effect in [most likely] percent (%) of the time but this estimate could be as low as [minimum] % and as high as [maximum] %." (numbers DO NOT need to sum to 100)</p>			<p>In the context of a Federal election, assuming the threat is realized, what percentage of the time would it have a low, medium, and high impact? (numbers should sum to 100)</p>		
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<p align="center">Voting Step: POST-ELECTION AUDIT</p>	Minimum	Most Likely	Maximum	Low	Medium	High
<p>Disruptions by Environmental Events Types of threat vectors: Fire; Spill; Flooding;</p>	0	3	5	5	5	90
<p>Disruptions by Human-Created Collateral Events Types of threat vectors: Technical failure; Labor-related; Terrorism;</p>	3	5	7	75	20	5