Analysis of Signature Verification rejection rates of Mail-In-Ballots (MIB) 11-20-12 Jim August 303-776-4514

- 1. I observed two groups of signature verification operations that I considered were reasonably reviewed.
 - a. The first group was counting number of screens of 4 between rejects. 40 screens * 4 per screen / 7 rejects = 22.9 (accepts /per reject)
 - b. The second group was 46 screens * 4 per screen / 7 rejects = 26.3 (accepts per reject)
 - c. The average of these two groups was 24.6 accepts per reject.
 - d. Another watcher observed review times of all teams operating on the same day that ranged from less than 2 seconds to over 10 seconds for a screen of 4 signature pairs.
 - e. Both sample groups I observed were operating at a rate of about 4 to 5 seconds per screen of 4 signature pairs.
- 2. I observed the team reviewing the rejected signatures and found that about 1 in 4 were changed back to "OK".
- 3. Per my preliminary calculations I observed a net average of about 33 accepts per reject that indicates we should expect about 3% of mail in ballots being rejected for signatures.
- 4. One source shows 127,875 MIB were sent out; however another source shows 130,252 were counted
- 5. Of those returned MIBs, 1,155 had problems with "No ID", "no Signature" or "Signature Discrepancy" of which 693 problems were for signature discrepancies for a reject rate of about 0.54%.
- 6. With a 3% observed rejection rate I would expect about 3,836 signatures rejects but we had only 693. Therefore there may have been 3,836 693 = 3,143 undetected falsely accepted MIBs with false signatures. This is a false acceptance rate of about 2.5%.
- 7. Why did about 2.5% (3,143) of the MIBs returned go undetected for possible false signatures?