

Dear Tim Weston:

EMVCo, LLC ("EMVCo"), a Delaware limited liability company, has received your request for Level 2 terminal type approval for the EMV Application Kernel (hereafter referred to as Application) identified above. In connection with your request, we have reviewed all test file number(s) listed above.

After assessing such file(s), EMVCo has found reasonable evidence that the submitted samples of the above referenced Application Kernel sufficiently conform to EMV 2000 Integrated Circuit Card, Specifications for Payment Systems version 4.0 December 2000.

EMVCo hereby (a) grants your Application EMVCo Type Approval for Terminal Level 2, based on the requirements stated in the EMV 4.0 Specifications, and (b) agrees to include your Application Kernel in EMVCo's approved Application list. EMVCo's grant to your Application Kernel is subject to and specifically incorporates (i) the General Terms and Conditions to the Letter of Approval enclosed as Exhibit A, and (ii) the Specific Terms and Conditions to the Letter of Approval attached hereto as Attachment 1. Because EMVCo's grant is subject to such limitations, including certain events of termination, you and any third parties should confirm that such approval is current and has not been terminated by referring to the list of approved Application Kernels published on the EMVCo website (www.emvco.com).

Dresser Wayne, Dresser Inc.

This Letter of Approval is effective on dispatch from EMVCo..

EMVCo, LLC, a Delaware limited liability company

By: _____

Name: Esther Salk

Title: EMVCo Terminal Type Approval Secretariat

Terminal Capabilities		1C											
Card Data Input Capability													
Terminal Type	24												
Manual Key Entry	No												
Magnetic Stripe	Yes												
IC with Contacts	Yes												
CVM Capability													
Plaintext PIN	Yes												
Online Enciphered PIN	No												
Signature (Paper)	No												
Offline Enciphered PIN	Yes												
No CVM	Yes												
Security Capability													
SDA	Yes												
DDA	Yes												
Card Capture	No												
CDA	Yes												
Transaction Type Capability													
Tran Type - Cash	No												
Tran Type - Goods	Yes												
Tran Type - Services	No												
Tran Type - Cash Back	No												
Tran Type - Inquiry	No												
Tran Type - Transfer	No												
Tran Type - Payment	No												
Tran Type - Admin	No												
Tran Type - Cash Deposit	No												
Terminal Data Input Capability													
Keypad	Yes												
Numeric Keys	Yes												
Alpha and Special Char Keys	No												
Command Keys	Yes												
Function Keys	Yes												

Terminal Data Output Capability													
Print, Attendant	No												
Print, Cardholder	Yes												
Display Attendant	No												
Display Cardholder	Yes												
Code Table 10	No												
Code Table 9	No												
Code Table 8	No												
Code Table 7	No												
Code Table 6	No												
Code Table 5	No												
Code Table 4	No												
Code Table 3	No												
Code Table 2	No												
Code Table 1	Yes												

(continued)	1C										
Application Selection											
PSE	Yes										
Cardholder Confirmation	Yes										
Preferred order	No										
Parital AID Selection	Yes										
Multi language	No										
Common Character Set	Yes										
Data Authentication											
MAX CA Public key	248										
Exponents	3 and 2^16+1										
Revocation of IPKC	No										
Certificate Revocation List format	n/a										
Default DDOL	Yes										
Manual when CA PK load fails	Yes										
CA PK verified with check sum	Yes										
Cardholder Verification Method											
Bypass PIN Entry	No										

Get Data for PIN Try Ctr.	No										
Fail CVM	Yes										
Amount known before CVM	Yes										

Terminal Risk Management											
Floor Limit Checking	Yes										
Random Trans Sel	Yes										
Velocity Checking	Yes										
Transaction Log	No										
Exception File	No										
Term Risk based on AIP	Yes										

Terminal Action Analysis											
Terminal Action Codes	Yes										
Default process prior to AC	No										
Default process after to AC	No										
Skip processing TAC/IAC	No										
Default as normal	Yes										
CDA fail detected prior TAA	Yes										
CDA always requested at GENAC1	Yes										
CDA never requested at GENAC1	No										
CDA always requested at GENAC2	Yes										
CDA never requested at GENAC2	No										

Completion Processing											
Forced Online	No										
Forced Acceptance	No										
Advices	No										
Issuer Referrals	No										
Batch Data Capture	No										
Online Data Capture	Yes										
Default TDOL	Yes										

(continued)	1C										
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Exception Handling										
POS Entry Mode	88									
Miscellaneous										
PIN Pad	Yes									
Amt and PIN same keypad	No									
ICC/Magstripe Combined	Yes									
Magstripe read first	No									
Supports account type sel?	No									
Issuer Script device limit >128?	Yes									
If >128, value supported?	250									
Internal Date Management ?	Yes									