



Australian Government
National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Cancellation
Supplementary Certificate of Approval
No S405

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that the approval for use for trade granted in respect of the

Integration Technologies Model Enabler 2PCI Control System for Fuel Dispensers
for Motor Vehicles

submitted by Shell Company of Australia Limited
 8 Redfern Road
 Hawthorn East VIC 3123

has been cancelled in respect of new instruments as from 1 January 2009.

Signed by a person authorised by the Chief Metrologist
to exercise his powers under Regulation 60 of the
National Measurement Regulations 1999.

A handwritten signature in black ink, appearing to be 'J. K. T.', is located in the bottom right corner of the document.



Australian Government

National Standards Commission

12 Lyonpark Road, North Ryde NSW 2113 Australia

Notification of Change

Supplementary Certificate of Approval No S405

Change No 1

The following change is made to the approval documentation for the

Integration Technologies Model Enabler 2PCI Control System for Fuel Dispensers
for Motor Vehicles

submitted by Shell Company of Australia Limited
 8 Redfern Road
 Hawthorn East VIC 3123.

Supplementary Certificate of Approval No S405, its Technical Schedule and Figures 1 and 2
all dated 26 May 2003, are superseded by the documentation attached herein, and may be
destroyed.

Signed by a person authorised under Regulation 60
of the National Measurement Regulations 1999 to
exercise the powers and functions of the
Commission under this Regulation.

A handwritten signature in black ink, appearing to be 'J. G. T.', written over a horizontal line.

.../



Australian Government

National Standards Commission

12 Lyonpark Road, North Ryde NSW 2113 Australia

Certificate of Approval

No S405

Issued under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the

Integration Technologies Model Enabler 2PCI Control System for Fuel Dispensers
for Motor Vehicles

submitted by Shell Company of Australia Limited
 8 Redfern Road
 Hawthorn East VIC 3123.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 August 2007, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No S405 and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S405 in addition to the approval number of the instrument.

Instruments purporting to comply with this approval and currently marked NSC No PS405 may be re-marked NSC No S405 but only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the Commission and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with the Commission's Document NSC P 106.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

DESCRIPTIVE ADVICE

Pattern: provisionally approved 10 July 2002
approved 10 September 2002

- An Integration Technologies model Enabler 2PCI control system to provide an attended self-serve facility for compatible Commission-approved PEC fuel dispensers for motor vehicles.

Variants: provisionally approved 10 July 2002
approved 10 September 2002

1. For use with compatible Commission-approved Email or FuelQuip fuel dispensers.
2. For use with compatible Commission-approved Gilbarco/Marconi fuel dispensers.

Technical Schedule No S405 describes the pattern and variants 1 & 2.

FILING ADVICE

Supplementary Certificate of Approval No S405, its Technical Schedule and Figures 1 and 2 all dated 26 May 2003, are superseded by the documentation attached herein, and may be destroyed. The documentation for this approval now comprises:

Supplementary Certificate of Approval No S405 dated 20 January 2004
Technical Schedule No S405 dated 20 January 2004 (incl. Table 1 and Test Procedure)
Figures 1 and 2 dated 20 January 2004

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



TECHNICAL SCHEDULE No S405

Pattern: Integration Technologies Model Enabler 2PCI Control System for Fuel Dispensers for Motor Vehicles

Submittor: Shell Company of Australia Limited
8 Redfern Road
Hawthorn East VIC 3123.

1. Description of Pattern

The pattern is an Integration Technologies model Enabler 2PCI control system interfaced with Commission-approved PEC fuel dispensers or any other compatible (#) Commission-approved fuel dispensers for motor vehicles.

(#) "Compatible" is defined to mean that no additions/changes to hardware/software are required for satisfactory operation of the complete system including all checking facilities.

1.1 Field of Operation

- The Enabler 2PCI control console is approved for environment class A, i.e. in an indoor climate-controlled environment between 5°C and 30°C.
- The control console provides a self-serve arrangement for up to 32 compatible (#) Commission-approved fuel dispensers.
- The system allows pre-pay/pre-set operation when interfaced to fuel dispensers incorporating a pre-set device.
- The control console can store in memory one transaction per fuel dispenser.
- For each grade of fuel, the control console can centrally set the unit price for the fuel dispensers.

1.2 System Description

The Integration Technologies model Enabler 2PCI control system (Figure 1) comprises:

- (i) The Enabler 2PCI control console comprising a Compaq model EN personal computer or any other equivalent (*) computer fitted with an Integration Technologies model Enabler 2PCI controller card (Figure 2) and Version 2.5 software;
 - (ii) An APC model Back-pro 280 uninterruptible power supply;
 - (iii) One or more CTX model Pano View 600 or other equivalent (*) visual/touch screen display units (Figure 2);
 - (iv) A protocol distribution module containing a NZ Protocol Distribution circuit board which enables communication with Commission-approved PEC fuel dispensers. The module is powered by a Dick Smith model M – 9656 12 V AC power transformer;
- (*) "Equivalent" is defined to mean other proprietary equipment of the same or better specifications requiring no changes to software for satisfactory operation of the complete system including all checking facilities.

- (v) An Epson model M129B printer or any other equivalent (*) printer for the vendor's record and purchaser's receipt;
 - (vi) An Epson model M59DA purchaser's indicator or any other equivalent (*) purchaser's indicator; and
 - (vii) A point of sale facility including a cash drawer and barcode scanner (Figure 1).
- (*) "Equivalent" is defined to mean other proprietary equipment of the same or better specifications requiring no changes to software for satisfactory operation of the complete system including all checking facilities.

1.3 System Control

(i) Post-pay Control

The control console allows an idle fuel dispenser to be authorised for a delivery and upon completion of the delivery the transaction is either finalised or is stored in memory allowing the dispenser to be authorised for the next delivery.

In the latter case, the fuel dispenser cannot be authorised for any further deliveries unless either the transaction for the stored delivery, or for the current delivery, is finalised.

For each fuel dispenser, at the control console the stored (memory) transaction is always indicated by a downward-pointing arrow in blue. The transaction text (dollars and litres) changes to red if the transaction is not actioned within 3 minutes of the dispenser hose being returned to its holder; the arrow remains blue and does not change colour.

(ii) Pre-pay Control

The control console can accept and finalise a transaction before delivery takes place. In a pre-payment arrangement the control console will only lock an idle fuel dispenser to prevent authorisation by another device. Once the transaction has been finalised, the console will authorise the locked dispenser. In the event that the pre-paid amount has not been delivered, the console will lock the dispenser and generate a pre-pay refund.

(iii) Control Status

The control console indicates the following status for fuel dispensers ("pumps") on a forecourt:

- pump idle;
- pump requesting authorisation;
- pump authorised;
- pump delivering;
- pump stopped;
- pump error;

- price change;
 - pump pre-paid authorised;
 - pump pre-paid delivering;
 - pump pre-paid locked;
 - pump authorised by external device (e.g. card-operated controller);
 - pump delivering and controlled by external device; and
 - pump locked by external device.
- (iv) A pump stop and all pumps emergency stop function.

1.4 Checking Facilities

(i) Purchasers' Indicator

Upon power up the purchasers' indicator will display all '8's followed by all '0's.

If the purchasers' indicator is disconnected the system will become inoperative.

(ii) Uninterruptible Power Supply

If the uninterruptible power supply (UPS) is running on battery power the memory facility is disabled and a Microsoft Windows message will appear on the screen indicating that the system is running on battery. If the battery is low in charge or is disconnected, the memory facility will also be disabled.

(iii) Printer

If the printer is turned off or is out of paper, a Microsoft Windows message will appear on the screen "Error on claiming POS printer (RC=106)".

The memory storage and pre-pay operation of the system will be inoperative until the problem with the printer is rectified.

1.5 Markings

The personal computer incorporating the Enabler 2PCI controller card is marked with the following data:

Manufacturer's mark, or name written in full
Model number
Serial number
NSC approval number	NSC No S405
Environmental class	Class A

In addition, each protocol distribution module is identified and is marked with the approval number "NSC No S405".

1.6 Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

2. Description of Variants

2.1 Variant 1

With a protocol distribution module containing an Email Distribution circuit board which enables communication with Commission-approved Email or Fuelquip fuel dispensers.

Note: The AC/DC mains adaptor supplied was a Dick Smith model M – 9670 12 V DC power transformer – the submitter should be consulted regarding the acceptability of alternative power supply units.

2.2 Variant 2

With a protocol distribution module containing an Intelligent Current Loop circuit board which enables communication with Commission-approved Gilbarco/Marconi fuel dispensers.

Note: The AC/DC mains adaptor supplied was a Dick Smith model M – 9670 12 V DC power transformer – the submitter should be consulted regarding the acceptability of alternative power supply units.

TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the instrument to which the pattern is connected, as appropriate, and in accordance with any relevant tests.

The following test is required to be performed at initial verification/certification of the attended-operated self-serve system or whenever a fuel dispenser or the calculator/indicator is changed:

1. Check the software version number for the self-serve device. To check the Enabler software proceed as follows:
 - (i) In Windows click on 'Start'.
 - (ii) Select 'Search'.
 - (iii) In the 'For files or folders' search box, type "enb*ocx" – two Enabler files will be found.
 - (iv) Click on one file, then right click the mouse.
 - (v) Click on the 'Properties' box – the file version will be displayed.
2. Check that pre-paid deliveries are only available for fuel dispensers with pre-set facility and the console can issue a receipt for the pre-paid amount tendered.
3. Check that a pre-pay transaction cannot be initiated for fuel dispensers that are not idle, i.e. dispensers with either delivery in progress or with completed deliveries that cannot be transferred into memory.

4. At the point of sale, check that the display for the benefit of the purchaser is available and visible to the purchaser.
5. Check that:
 - (i) the self-serve device communicates correctly with the fuel dispensers;
 - (ii) fuel dispensers are correctly identified;
 - (iii) unit price and delivery details are correctly displayed for the corresponding dispensers; and
 - (iv) unit price change is only possible when the current and stored transactions for the grade of fuel have been completed.



Australian Government
**National Measurement
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12 Lyonpark Road, North Ryde NSW 2113

Notification of Change
Supplementary Certificate of Approval No S405
Change No 2

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following change is made to the approval documentation for the
Integration Technologies Model Enabler 2PCI Control System for Fuel Dispensers
for Motor Vehicles

submitted by Shell Company of Australia Limited
 8 Redfern Road
 Hawthorn East VIC 3123.

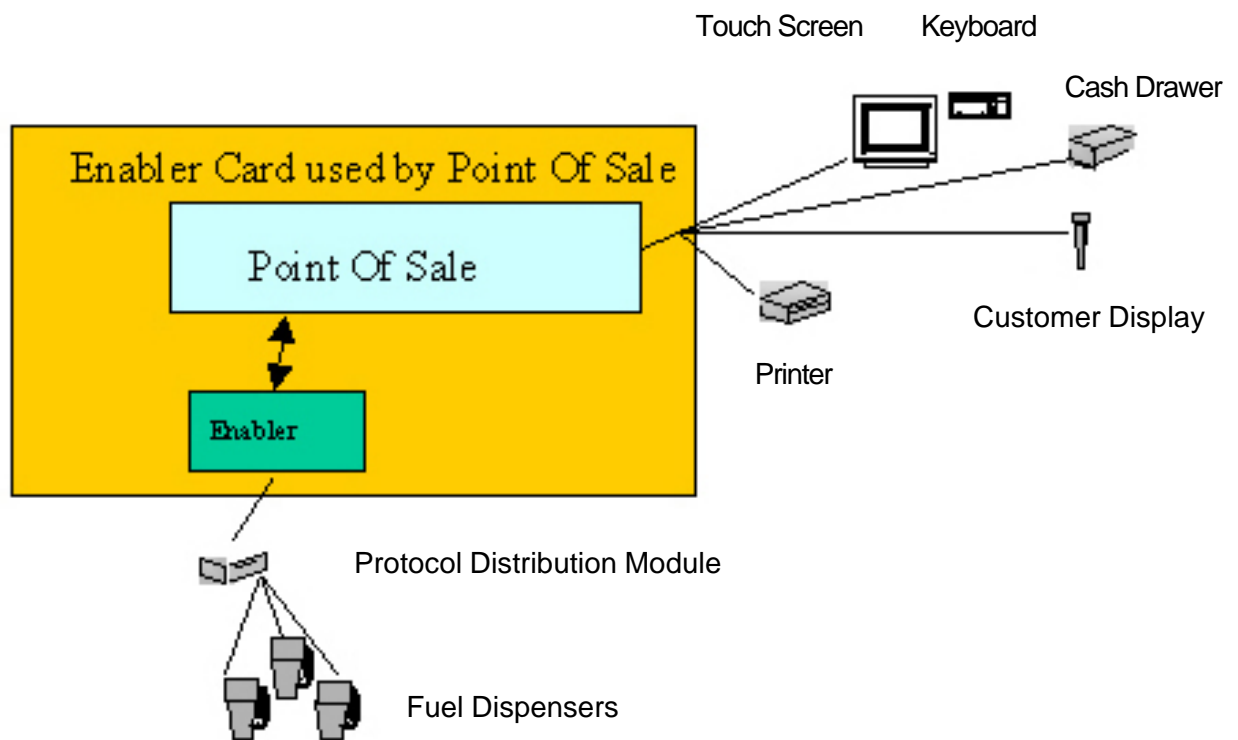
In Technical Schedule No S405 dated 20 January 2004, clause **1.2 System
Description** item (i) is amended to read, in part:

“... Version 2.5 **or 2.56** software.”

Signed by a person authorised by the Chief Metrologist
to exercise his powers under Regulation 60 of the
National Measurement Regulations 1999.

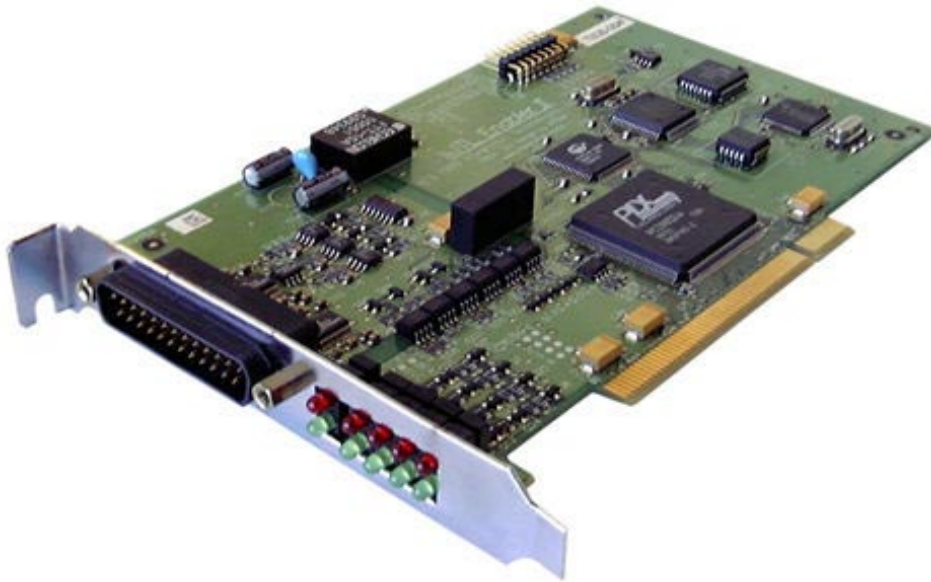
A handwritten signature in black ink, appearing to be 'J. G. T.', is located in the bottom right corner of the document.

FIGURE S405 – 1



S405
20 January 2004

FIGURE S405 – 2



Enabler Card



CTX Model Pano View 600 Touch Screen Operator's Display

Operator's Display and Enabler Controller Circuit Board