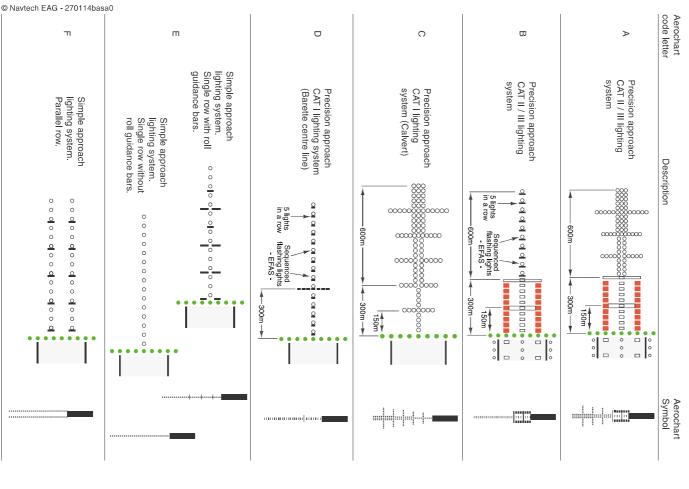
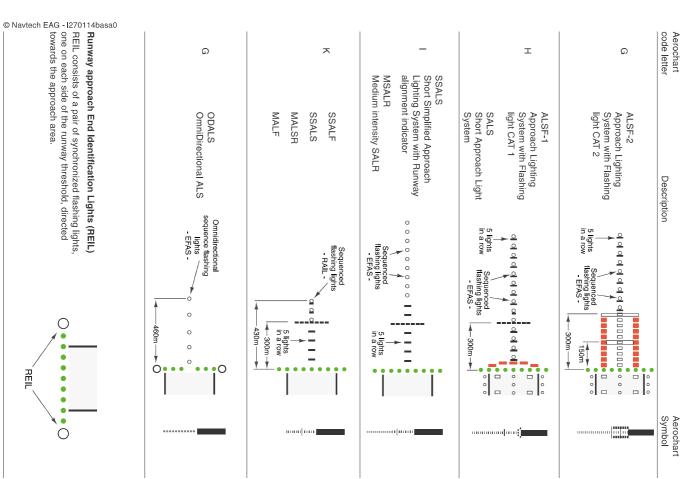
ICAO recommended airport equipment

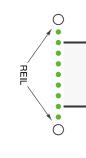
Approach lighting system



U.S. standard approach lighting system

Used within USA, U.S AFB and countries applying U.S. standard. Standard length is 730m except for systems with code letters K and L.

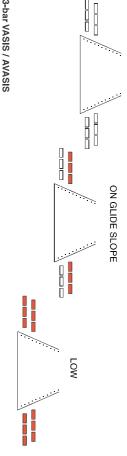




and which project white light above the glideslope and red below. The full system comprises twelve units arranged to form two lighted wingbars on each side of the runway

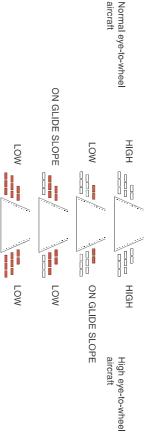
2-bar AVASIS is a system where a reduced number of light units are used for each wingbar either on one or both sides of the runway.

HGH



lower and middle wingbars, or the middle and upper wingbars. The lower/middle wingbar combination is intended for normal eye-to-wheel height aircrafts (MD80, B737, AB320 etc.) and the middle/upper wingbar combination is intended for high eye-to-wheel height aircrafts (B747, AB340, MD11 etc.). ranged in such manner that the pilot of an aeroplane may select an approach slope formed by either the 3-bar VASIS consist of a third additional upper wingbar to a standard VASIS. The light units shall be ar-

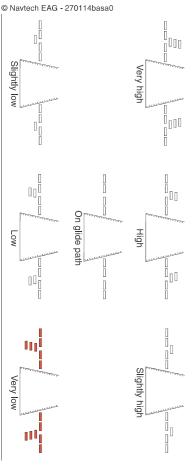
sides of the runway. 3-bar AVASIS is a system where a reduced number of light units are used for each wingbar on one or both



T-VASIS and AT-VASIS

T-VASIS shall consist of twenty light units symmetrically disposed about the runway centreline in the form of two wing bars of four lights each, with bisecting longitudal lines of six lights

AT-VASIS is a T-VASIS installed on one side of the runway only.

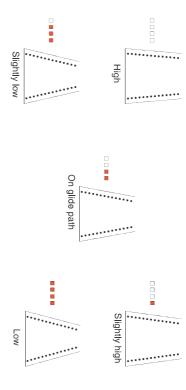


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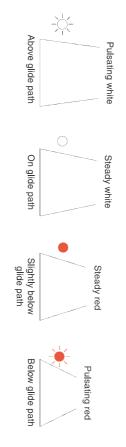
runway unless impracticable to do so. The PAPI system shall consist of a wing bar of four light units. The system is located on the left side of the

The APAPI system shall consist of a wing bar of two light units. The system is located on the left side of the runway unless impracticable to do so.



PLASI

white light indicates when on glide path. A system that emits pulsing white and red lights to indicate when the aircraft is too high or too low. A steady

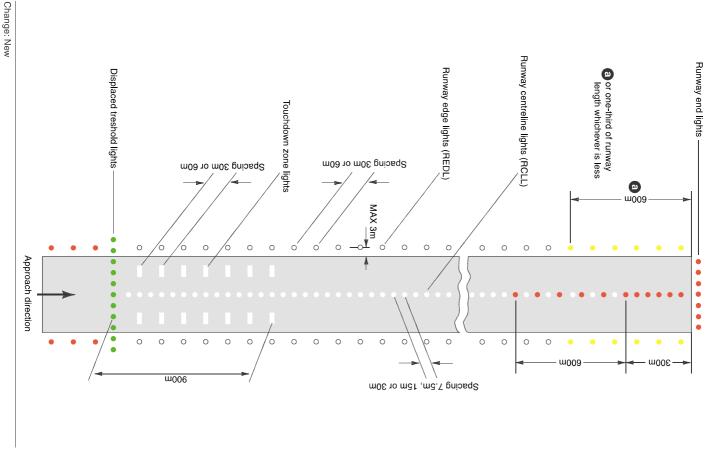


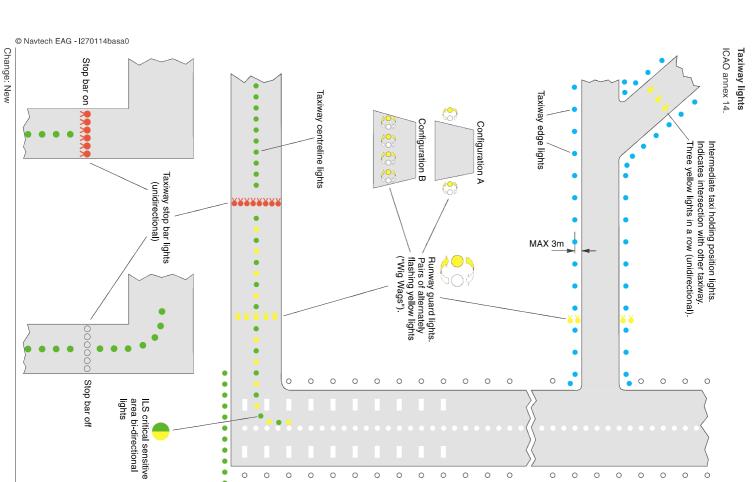
06 FEB 08

AIRPORT EQUIPMENT

Runway lights and threshold lights

ICAO annex 14.

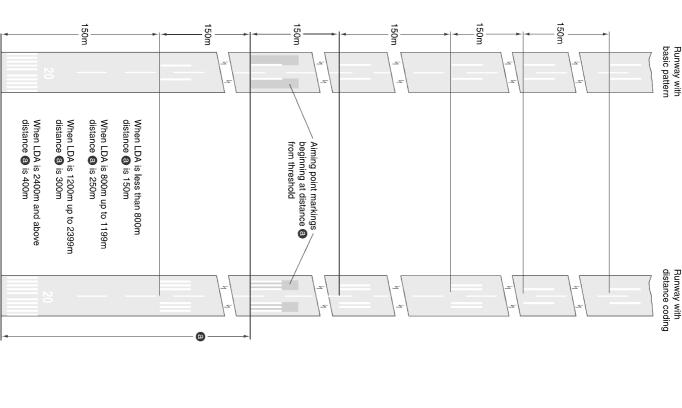




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Runway touchdown zone markings and aiming point markings ICAO annex 14.



Runway designator, threshold and closure markings ICAO annex 14.

Runway designator marking.



Runway designator marking for parallel runways.

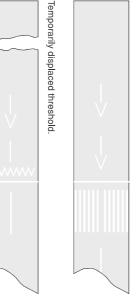


					Runway threshold marking. The number of stripes in threshold marking shall be in accordance with the runway width as follows:
60m	45m	30m	23m	18m	Runway width

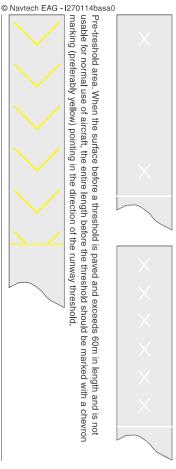
Number of stripes

6 8 12 16

Permanent or temporarily displaced threshold



Closed markings displayed on a runway or taxiway or portion thereof, which is permanently closed to the use of all aircraft. A closed marking shall be placed at each end of a runway, taxiway or portion thereof.



Change: New

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Location, direction and destination signs

ICAO annex 14.

Holding positions

ICAO annex 14.

the runway. identifying the last holding position prior to entering Runway taxi-holding position marking type "A"

Runway taxi-holding position marking type "B" identifying CAT I / II / III holding position where a position is provided.







closer to runway non presicion or CAT I taxi-holding

background surrounded by a yellow border. ing a runway or taxiway i yellow lettering on black A location sign consists of the character identifywhen nessesary, runways. Location signs are used to identify taxiways and,





Taxiway location

Runway location

Specific location

Taxiway ending

↑ W

or destination label accompanied by an arrow

Direction and destination signs consist of a route

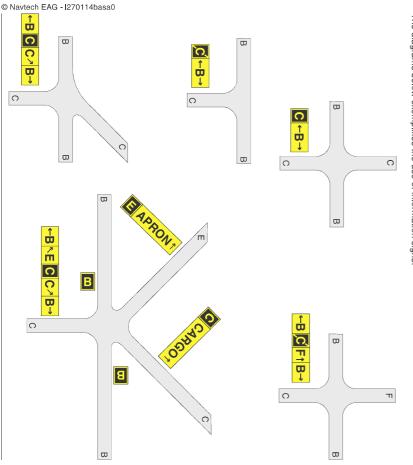
black characters on a yellow background. Direction and destination signs are formed by pointing in the appropriate direction.

Direction sign

Runway destination 26

Inbound destination

The diagrams below exemplifies the use of information signs.



 \bigcirc

blintermediate taxi-holding position marking is located position marking is located 750 as to provide clearance from aircraft passing in G front of the holding aircraft.

Signs indicating that entrance to an area is

ENTRY

to the prohibited area, as viewed both sides of the taxiway leading prohibited. Located at

Change: New

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Visual docking guidance systems

Azimuth guidance fo nose-in stand (AGNIS)

ping guidance separately. (Side Marker Board), SML (Side Marker Lines) or PAPA (Parallax Aircraft Parking Aid), which provide stop-AGNIS provides stand centreline alignment guidance and is normally used in conjunction with either SMB

light bars mounted in a box at about flight deck height ahead of the pilot. The system is designed for use from the left pilot position and the unit displays two closely spaced vertical

The light bars display one of the following signals:



turn towards green.

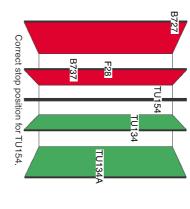
On centreline





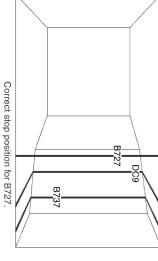
Side Marker Board (SMB)

and the rear faces as red -indicating too far- apnandling pilot. neither the green face nor the red face visible to abeam the appropriate board viewed end - on with propriate to the aeroplane type. The stop point is faces as green colour -meaning continue aheadaeroplane enters the stand, the pilot sees the board against a contrasting background and as the type indentification lables. The boards are viewed of vertically mounted boards bearing aeroplane provides stopping guidance by employing a series The aid is positioned to the left of the stand and



Side Marker Line (SML)

entirely vertical as illustrated. appropriate SML appears to the pilot to be the jetty end. The stop point is where the SMB), type labelled SML are painted inside jetty itself, (it may not be possible to employ Where the required stop-point is abeam the



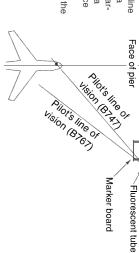
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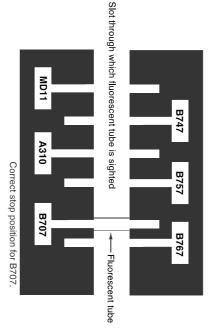
Change: New

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Parallax Aircraft Parking Aid (PAPA)

horizontal slot has been cut out. A short distance ing aeroplane type identification lable in which a black board marked with white vertical lines bearand provides stopping guidance by employing a PAPA is positioned to the left side of the centreline required aeroplane type line, indicates the stop fluorescent light tube which, when aligned with the behind the slot is a vertically mounted white





Aircraft Parking and Information System (APIS)

display, mounted at flight deck height ahead of the pilots. combines both alignment and stopping signals in one visual APIS is designed for use from the left pilot position and

Alphanumeric dot matrix:

- Aircraft type/series
- OK STOP aircraft correctly parked
- TFAR aircraft has overrun the stopping position
- STSH -aircraft have stopped short of stopping position
- ESTP emergency stop

Abort docking if display shows STOP or wrong aircraft type/series

row at a time. When aircraft is in the correct stop possition A dot progress matrix that will decrease in length by one Azımuth guıdance element.

0 6m the progress strip will be extinguished. One row is approx.

On centreline

Change: New

lurn righ:

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guidance in one display. tion and combines both alignment and stopping Safegate is designed for use from the left pilot posi-

STOP SHORT

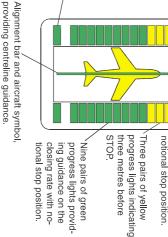
Alphanumeric dot matrix light element indicating:

- Aircraft type
- TOO FAR

- Door number
- System is ready for use when:

the correct aircraft type is displayed in

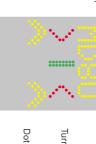
- the bottom pair of green lights is flashing flashing white.
- green lights will turn to steady when aircraft (indicating ready for docking). These two

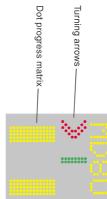


Safedock type 1

indicating as apropriate: Alphanumeric matrix display,

- STOP Aircraft type
- · 9
- TOO FAR
- ERROR or ID FAIL

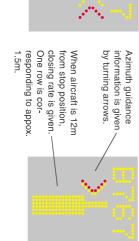




Safedock type 2

show as in Safedock type 1. The alphanumeric display will

when system is ready to use A lead in line will be shown



Safedock type 2S and 3

The alphanumeric display will show as in as Safedock type 1.

That It is a safedock type 1.

The alphanumeric display will show as in as Safedock type 1.

The safedock type 1.

The alphanumeric display will show as in as Safedock type 1.

The safedock type 1.

The alphanumeric display will show as in as Safedock type 1.

The safedock type 1.

The alphanumeric display will show as in as Safedock type 1.

Change: New

AIRPORT EQUIPMENT Page 27.14 06 FEB 08

Navtech aerochart LEGEND AIRPORT EQUIPMENT

Video DOCKing System (VDOCKS)

of aircraft type, distance to stop and centreline deviation is given. Pilots should not exceed a speed of 6 kt. A video docking system with an aircraft guidance display located at the head of the parking stand. Indication

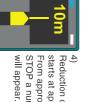


ence lights indicating the One pair of green referindicating STOP signal Two pairs of red lights,



is full length. and distance needle Text panel is steady Aircraft recognition.





STOP a numeric countdown value From approx. 10m distance to starts at approx. 30m from STOP. Reduction of distancem needle



RLG visual docking guidance system

- that the docking system is not swiched on or is unservicable or when it shows a different aircraft type. A pilot, while taxiing his/her aircraft into a fixed gate shall **stop the aircraft immediately**, if he/she sees
- Aircraft type indication
- Confirm aircraft type displayed prior to turning into stand
- or marshall aircraft int stand). Discontinue docking when wrong aircraft type is illuminated (aircraft marshaller shall re-check system
- Centre line guidance
- Look at bottom half of housing and interpret vertical neon lights as shown:



4

Stopping guidance.

Look at round incandescent lamps on top half of housing and interpret as shown:



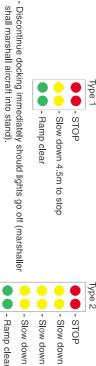




Discontinue docking when lights go off (marshaller shall marshall aircraft into stand).

| Slow down 4.5m to stop

Ramp clear



© Navtech EAG - I270114basa0 To avoid overshooting.

shall marshall aircraft into stand)

- When using the RLG system, pilots are to taxi into stand at
- and prepare to stop. On sseing the round incandescent amber lights, slowdown
- The round incandescent amber and red lights are activated manually by the RLG system operator as the aircraft approaches on suddenly or when given the stop sign by the aircraft marshaller the stop bar. Pilots should stop aircraft immediately when the red lights come