Visual Identification System for Naval Aircraft (Tail Codes)

he rapid and accurate identification of aircraft has always been of prime importance within Naval Aviation. The explosive expansion of Naval Aviation during World War II compounded this problem.

A three-part identification system had been in use in the fleet from 1923 until World War II. Under this system, the aircraft identification number 5-F-1, which was placed on the fuselage of the plane, meant this was the first airplane in Fighting Squadron 5. After July 1937, the squadron number for carrier based squadrons was the same as the hull number of the carrier. Thus Yorktown (CV 5) would have had VB-5, VS-5 and VF-5 assigned as part of her complement of squadrons. This system was modified by Commander Carriers, Pacific Fleet, on 29 April 1942. To help conceal the identity of carriers engaged in operations in enemy waters, the squadron number was eliminated, leaving just the letter designating the type of squadron and the aircraft number within the squadron. Thus, the marking on the fuselage of the plane would have been F-1 to identify it as the first plane in a fighting squadron without identifying the squadron's number. This was further modified on 22 December 1943, by the deletion of the squadron type letter. All identification as to a specific unit was now removed which allowed aircraft to be drawn from a pool as necessary without the requirement of painting identification information on them.

During World War II, with the increase in the number of fleet aircraft operating in the same area as training planes, the necessity grew even more acute to quickly differentiate the large number of training planes from the operational fleet aircraft. To alleviate this problem, Naval Air Operational Training Command, on 12 January 1943, directed that all aircraft within the command be identified by an alpha/numeric system consisting of three groups of characters. The first letter(s) designated the base assignment for the aircraft. The second letter identified the aircraft mission, while the third group was the number of the aircraft within the squadron. For an example, V-T-29 would indicate the aircraft was from Vero Beach, Fla., it was a torpedo plane, and the 29th aircraft in that Vero Beach, Fla., training unit.

During the last two years of the war, many of the aircraft assigned to the carriers in the Pacific carried symbols denoting the ship or air group to which they were assigned. No directive specifying these markings are known to exist, if there ever were any. From a review of photos of the period, it appears that the symbols were assigned to the CV designated aircraft carriers. While the Escort Carriers, designated CVE, had the symbol assigned to the squadrons that operated aboard the CVEs. Squadrons operating aboard the CVs only had that specific symbol while assigned to that particular carrier. While this was a step in the right direction, the lack of a uniform system was soon apparent when a large number of aircraft were trying to rendezvous after takeoff, before landing or over target areas.

The United States Navy Air Force, Pacific Fleet, issued a standard set of twenty-eight geometrical designs for the CV and CVL class carriers which constituted Task Force 58. These designs were assigned to the vessel and were applied to all aircraft of the attached air group as long as it was aboard. They were applied to both sides of the fin and rudder. While the drawings in the directive only showed the design on the top surface of the right wing, subsequent directives indicate that it was also to be applied on the under surface of the left wing tip.

The Commander, Air Force, Pacific Fleet, on 11 February 1945, issued an instruction for the aircraft in the Hawaiian Sea Frontier. All carrier and training type aircraft were to be identified with a letter followed by the individual aircraft number running from 1 to 99. These markings were not for the purpose of security, but rather to identify U.S. Navy aircraft after numerous reports of violations of air discipline involving flying too close to transport aircraft and ground installations.

Air Force, Pacific Fleet, on 2 June 1945, prescribed a series of recognition symbols for CVEs. These markings were to be painted on both sides of the vertical tail surfaces, as well as the upper right and lower left wing tips. All CVEGs, MCVGs and VCs assigned to ships of the Escort Carrier Force, Pacific, were to carry these designs. Each Carrier Division was assigned a

basic design. The position of the individual vessel within the Division was indicated by a series of nar-

The system of geometrical symbols carried by Task Force 58 aircraft was difficult to describe over the radio and was not always readily identifiable in the air. To eliminate this problem, Commander Task Force 38, in July 1945, specified a system of 24-inch block capital letters to be used to identify the aircraft of the CVs and CVBs. These letters were to be applied to both sides of the fin and rudder as well as the top right and lower left wing tips. In its original form some ships used a single letter, while others were assigned double letters. This was the beginning of the two-letter Visual Identification System in use today.

Naval Air Stations in Hawaii were assigned letter designations on 10 September 1945, by the Commander, Air Force, Pacific Fleet. These letters were to be followed by a number from 1 to 99 inclusive. In the event all available numbers in the 1 to 99 series were used, and no additional letters were available, the use of numbers over 100 was authorized.

On 8 January 1946, Air Force, Pacific Fleet, issued instructions for the application of markings on the fast carrier aircraft. This directive also assigned new alphabetical designations for the CVs and CVBs and CVLs in place of those specified by Commander Task Force 38. This assignment of the same letter to a different carrier than previously designated, may well have caused the erroneous identification of some photographs as to what ship the aircraft were actually assigned.

All of the previous directives or instructions were a search for an easy system to rapidly identify aircraft. Finally, on 7 November 1946, the Chief of Naval Operations (CNO) established the Visual Identification System for all Navy and Marine Corps aircraft. To be effective, such a system had to be simple, readable and possess enough different combinations to cover the number of aircraft carriers and all types of squadrons to which naval aviation might expand in case of war. A system using letters satisfies these requirements as long as distinctive characters are used. The elimination of the ambiguous letters G, J, N, O, Q and Y left ample combinations to cover such expansion. Since each letter has a phonetic equivalent in communication procedures, the problem of describing geometric markings was replaced by the simple process of enunciating the names of the letters of the alphabet. Under this system each aircraft carrier had either a single or double letter symbol, some of which were a hold over from the previous system. On 12 December 1946, the Visual Identification System of Naval Aircraft was modified by CNO. Under this change the tail codes assigned to the carriers were now reassigned to individual air groups. This permitted greater flexibility since an air group was not permanently assigned to a specific carrier.

Under the CNO system, non-carrier based squadrons, such as VP, VPP, VPW, VPM, VU, VRU, VX and VCN squadrons also used a letter system. In these squadrons the first of the two letters designated the wing or class while the second letter designated the squadron within the wing. Marine Corps carrier-based squadrons used the letters assigned to the parent carrier. While shore-based Marine squadrons used the first letter to designate the Wing or other command, and the second letter identified the squadron within the Wing or Command. The letters in all cases were underscored to denote Marine. It was possible under this system to have the same code letters assigned to a Navy squadron and a Marine Corps squadron concurrently. This requirement to underscore the letters on Marine Corps aircraft was rescinded on 4 August 1948.

The Training Command continued to use the letter number designation system in which the first of one or two letters designated the base or station, while the second letter identified the squadron and/or class designation. The aircraft within the squadron were identified by a one, two or three digit number. The Chief, Naval Air Training, controlled the assignment of the letter symbols within the Training Command.

Naval Air Reserve aircraft were also identified by two letters. The first letter denoted the Air Station to which the aircraft was assigned, while the second letter identified the type of squadron. From this it can be seen that it was possible to have a fleet squadron and a reserve squadron identified with the same two letters. This was resolved by the use of the orange belly band around the fuselage to denote a Reserve aircraft. Reorganization of the Naval Air Reserve in 1970 arranged the reserve squadron system along the same lines as the active fleet structure. The tail code assignments for these squadrons was redone to following the procedures used for the fleet squadrons.

Naval Air Advanced Training Command on 6 January 1947 issued a directive for identifying aircraft within the command. This alpha/numeric system used a letter to identify the Naval Air Station, followed by a second letter designating the squadron at that activity and then a three digit aircraft number. On 31 August 1950, the Chief Naval Air Basic Training issued a directive that involved single letters to denote aircraft assigned to the various bases. This was modified on 27 September 1950 to a two-letter system whereby the first letter designated the base and the second letter the squadron. These letters were followed by a threedigit number to denote the individual aircraft within the squadron. On 6 September 1956, Chief of Naval Air Training established a new tail code identification system for the training commands. This system included two character alpha/numberic codes whereby the number 2 designated Chief Naval Air Basic Training Command aircraft, 3 designated Chief Naval Air Advanced Training Command and 4 designated Chief Naval Technical Training Command aircraft.

One major change to occur was the move from a single letter to two letters to idenify an air group's tail code. The effective date for this change was most likely the beginning of Fiscal Year 1958 (1 July 1957). Specific documenation has not been discovered to ver-

ify this date. However, the tail code (Visidual Identification System) listing in the Naval Aeronautical Organization for 1957 shows the changes for the air group tail codes to two letters.

Even though numerous changes have been made since 7 November 1946 to the Visual Identification System, the basic tenet of the system has remained intact. The following is a listing of Tail Codes (Visual Identification System for Naval Aircraft) for Naval Aviation as of the end of 1995:

Command	Tail Code	Command	Tail Code
Blue Angels	ВА	VR-48	JR
		VR-52	JT
Carrier Air Wings (former designation Carrier Air Groups)		VR-53	WV
•	•	VR-54	CW
CVW-1	AB	VR-55	RU
CVW-2	NE AG	VR-56	JU
CVW-3 CVW-5	AC NF	VR-57	RX
CVW-7	AG	VR-58	JV
CVW-7	AJ	VR-59	RY
CVW-9	NG	VR-61	RS
CVW-11	NH	VR-62	JW
CVW-11	NR		
CVW-14	AA	Helicopter Antisubmarine Light	
RCVW-4*	AD	•	•
RCVW-12**	NJ	HSL-37	TH
CVWR-20	AF	HSL-40	HK
57M 25	, u	HSL-41	TS
	A 514/	HSL-42	HN
Carrier A		HSL-43	TT
CAEWW-12	GE	HSL-44	HP
		HSL-45	TZ
ASW Air Groups		HSL-46	HQ
	•	HSL-47	TY
CVSG-50***	AR	HSL-48	HR
CVSG-51****	RA NIA/	HSL-49	TX
HELWINGRES	NW	HSL-51	TA
		HSL-84	NW
Fleet Com	posite	HSL-94	NW
VC-6	JG		
VC-8	GF	Naval Air System	s Command
		Test Pilot School	TPS
Fleet Logistic	Support		
VRC-30	RW	MARTD'S/Marine Support	
VRC-40	JK	HQMC	5A
		MCAS Beaufort	5B
Fleet Logistics Support Reserve		MCAS Cherry Point	5C
	•	MCAS El Toro	5T
VR-46	JS	MCAS Futenma	5F

Command	Tail Code	Command	Tail Code
MCAS Iwakuni	5G	HC-11	VR
MCAS New River	5D	HC-85	NW
ICAS YUMA	5Y		
		P	atrol
Naval Air Stations (NAS	5)	VP-1	YB
lameda	7J	VP-4	YD
runswick	7F	VP-5	LA
ecil Field	7U	VP-8	
allon	7H		LC
acksonville	7E	VP-9	PD
ey West	7Q	VP-10	LD
emoore	7S	VP-11	LE
lemphis	7.K	VP-16	LF
orfolk	7C	VP-26	LK
orth Island	7M	VP-30	LL
ceana	7W 7R	VP-40	QE
atuxent River	7R 7A	VP-45	LN
oint Mugu	7A 7L	VP-46	RC
	7C 7G	VP-47	RD
hidbey Island	76	VPU-1	OB
		VPU-2	SP
Naval Air Warfare Center Weapo	ns Division		
hina Lake	7P	Patrol Reserve	
		VP-62	LT
Naval Air Warfarfe Center Naval Air	craft Division	VP-64	LU
atuxent River	SD	VP-65	PG
ataxon ravor	OD	VP-66	LV
		VP-68	LW
Navy Support		VP-69	PJ
AF Atsugi	8A	VP-91	PM
AF EI Centro	8N	VP-92	LY
AVSTA Guam	8J		
AVSTA Guantanamo	8F	VP-94	PZ
AVSTA Mayport	8U		
AF Mildenhall	8G	Air Test ar	nd Evaluation
AF Misawa	8M	VX-1	JA
OMFLTACT Okinawa	8H	VX-9	XE
AVSTA Roosevelt Roads	8E	V // - 7	ΛĹ
AVSTA Rota	8D		
AS Sigonella	8C	Antarctic	Development
Q CMEF (Bahrain)	8K	VXE-6	XD
Helicopter Combat Supp	ort	Heliconter Mine Cou	intermeasure Squadron
C-2	HU	•	•
IC-3		HM-14	BJ
	SA	HM-15	ТВ
C-4	HC		
C-5	RB	Fleet Tactical	Readiness Group
C-6	HW		•
C-8	BR	COMFEWSG	GD

Command	Tail Code	Command	Tail Code
Fleet Air Reconnaissance		VMFA-235	DB
/Q-1	PR	VMFA-251	DW
/Q-2	JQ	VMFA-312	DR
/Q-3	TC	VMFA-314	VW
		VMFA-323	WS
/Q-4	HL	VMFA-451	VM
/Q-5	SS	VIVII A-451	VIVI
/ Q-6	ET	To all of Electric	
Float Marino and Ma	ring Cunnart Units	Tactical Electr	
Fleet Marine and Ma Headqua		VMAQ-1	СВ
•		VMAQ-2	CY
√WHS-1	SZ	VMAQ-3	MD
MALS-10	SE	VMAQ-4	RM
MALS-11	TM		
MALS-12	WA	Aerial Refuel	er/Transport
MALS-13	YU		-
MALS-14	CN	VMGR-152	QD
HAMS-16	WW	VMGR-252	ВН
MALS-24	EW	VMGR-352	QB
MALS-26	EL		
HQSQDN-17	CZ	0bserv	vation
MALS-31	EX		
MALS-36	WK	VMO-1	ER
HQSSDN-37	QF	VMO-2	UU
		Florat To	t t
Attack		Fleet Tr	•
/MA-211	CF	VMAT-203	KD
/MA-214	WE	VMFAT-101	SH
/MA-223	WP	VMFT-401	WB
/MA-231	CG		
/MA-331	VL	Fleet Rea	adiness
/MA-513	WF		
/MA-542	CR	VMGRT-253	GR
		Helicopter Heavy	
All-weather Attack		•	-
/MA(AW)-332	EA	HMH-361	YN
• /		HMH-362	YL
		HMH-363	YZ
All-weather Fighter Attack		HMH-366	HH
/MFA(AW)-121	VK	HMH-461	CJ
/MFA(AW)-224	WK	HMH-462	YF
/MFA(AW)-242	DT	HMH-463	YH
/MFA(AW)-225	CE	HMH-464	EN
/MFA(AW)-533	ED	HMH-465	YJ
, ,		HMH-466	YK
Fighter A	lttack		
_		Helicopter	^r Medium
<i>Fighter F</i> /MFA-115 /MFA-122	<i>Ittack</i> VE DC	Helicopter	<i>r Medium</i> YR

Command	Tail Code	Command	Tail Code
HMM-163	YP		VT-21 B
HMM-164	YT		VT-22 B
HMM-165	YW		VT-23 B
HMM-166	YX		JTTU B
HMM-261	TV		
HMM-262	ET	TRAWING F	OUR
HMM-263	EG		
HMM-264	EH	Corpus Christi	G
HMM-265	EP		VT-27 G
HMM-266	ES		VT-28 G
HMM-268	YQ		VT-31 G
HMM-364	PF		V1 31 0
HMM-365	YM	TRAWING I	FIVE
Helicopter Li	aht	Whiting Field	E
·	_	Whiting Field	VT-2 E
HMLA-167	TV		VT-2 E VT-3 E
HMLA-169	SN		
HMLA-267	UV		VT-6 E
HMLA-269	HF		HT-8 E
HMLA-367	VT		HT-18E
HMLA-369	SM	TRAWING	VIZ
		ITAWING	SIX
Helicopter Tra	ining	Pensacola	F
HMT-204	GX	rensucoid	VT-4 F
HMT-301	SU		VT-10 F
HMT-303	QT		VT-86 F
Helicopte	•	21.5.511.1.7.1	
HMX-1	MK	Chief of Naval Technical Training	
HIVIA- I	IVIN	NATTC Lakehurst	4L
		NAS Memphis	4M
Unmanned Aerial Vehic	al Operations		
1st UAV	FZ	Chief Naval Reserve	
2d UAV	FF	Atlanta	7B
FAST	FS		
C Company	FH	Dallas	7D
VC-6 Det	FR	Selfridge	7Y
DUTCH	FD	Glenview	7V
		New Orleans	7X
Chief of Naval Air Training		South Weymouth	7Z
	_	Washington, DC	7N
TRAWING OF	NE	Willow Grove	7W
Meridian	A	Naval Air Re	eserve
	VT-19 A		
		Jacksonville	6F
TRAWING TV	10	Alameda	6G
		Memphis	6M
Kingsville	В	Norfolk	6S

Command	Tail Code	Command	Tail Code
Fourth Marine Aircraft Wing		HMM-764	ML
HQ 4TH MAW H&MS-41 VFMA-112 VMA-142 HMA-773 HMM-774 H&MS-49	EZ MY MA MB MP MO QZ	HML-767 VMA-131 VMGR-234 HML-771 HML-776 HMH-777 VMA-124	MM QG QH QK QL QM QP
HMH-769 HMH-772 VM0-4 H&MS-42 HMA-775 VMA-134 VMFA-321 H&MS-46	MS MT MU MW WR MF MG QY	* Disestablished on 1 June 1970. RCVW-4 tail letters retained by the follosquadrons: VF-101 and VAW-120. ** Disestablished on 1 June 1970. RCVW-12 tail letters retained by the follosquadrons: VAO-129 and VS-41. *** Disestablished on 17 February 1971. CVSG-50 tail letters retained by the lowing squadrons: VS-30 and HS-1. **** Disestablished on 30 June 1971. CVSG-51 tail letters retained by the lowing squadron: HS-10	



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 $Squadron\ in signia,\ past\ and\ present,\ showing\ squadron\ designation\ in\ the\ lower\ scroll.$