

## NOTICE

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## INTRODUCTION

This guide was based on ideas and concepts that controllers have developed for their own use over the years. This material was gathered in surveys and interviews over a 3-year period conducted at towers, TRACONS, and centers. The ideas presented here are a small subset of all that controllers suggested. They were chosen because the authors believed they stood out and could be represented effectively in this training aide. The guide is an attempt to share the wealth of controller's ideas with their brothers and sisters in the work force. Readers are urged to examine the whole guide and take from it whatever they can use to improve the effectiveness of their limited memory resources. The concepts are presented in random order. Some apply to all facilities, and others are very specific. Many of these ideas may seem very basic to the experienced controller. For him or her, they are meant to reinforce what they already know but perhaps have not thought about in the recent past. The reader will quickly see that memory is everywhere. It is involved in almost everything we do!

## ACKNOWLEDGMENTS

This guide was developed for, and is dedicated to, the men and women of the Air Traffic Service who keep the skies safe for the flying public. The system could not operate without them. The authors would like to thank all the controllers over the years who took the time to answer our questions and to share their ideas. <u>The</u> <u>Controller Memory Guide</u> is a product of their thinking and experiences. We could not have written it without them.









































































Some of us tend to ignore tools that are already available to us. It makes sense to use what is there if it helps you reduce the possibility for error. The "J" ring is an example.



Controller Memory Guide Reader Response Form					
<u>Instructions</u> : Please copy or remove this form from the guide. Fill it out and mail it to the address at the bottom. All responses will be kept confidential.					
Fill in the following answers: Check One Facility Tower/TRACON facility level if applicable: 1 2 3 4 5					
Facility type (Circle One): Tower cab, Tracab, TRACON, ARTCC, Tower/ TRACON, other					
Your role in the facility: (Circle one): FPL, Developmental, SATCS, Staff, other					
Below please circle the one number which best summarizes your level of agreement with each of the following statements. Use the entire range of the scale from 1 (Strongly disagree) to 8 (Strongly agree).					
The controller memory guide is relevant to what happens in my facility.					
Strongly Disagree 1 2 3 4 5 6 7 8 Strongly Agree					
The graphics in the guide were appropriate for the concepts presented:					
Strongly Disagree 1 2 3 4 5 6 7 8 Strongly Agree					
The controller memory guide is a useful job aide:					
Strongly Disagree 1 2 3 4 5 6 7 8 Strongly Agree					
Below please provide your overall evaluation of the Controller Memory Guide. Circle the number which best describes your evaluation from 1 (Very Poor) to 8 (Very Good).					
Very Poor 12345678 Very Good					
Below list any concepts that you would like to see covered in a revised future copy of the guide in the future. Also provide any comments that you might have. Use additional sheets if desired.					

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Memory is an elasive human ability which both helps and hinders air traffic controllers' performance. This document was developed based on the ideas of controllers themselves when they were asked what they did to manage their memory resources. The guide is a job aide meant to help controllers think about what they do and about the little things they could use to help them reduce the possibilities for errors based on memory lapses. The material is presented in graphical cartoon format along with a very direct and minimalized text narrative. The goal was to provide the concepts in a readable format that controllers could review when they had the time. The issues covered in the guide all relate to memory in one way or another, but in many cases transcend memory issues alone, and look at the more basic issue of any person-machine system performance. Human and system performance are the bottom line in any complex command and control system such as air traffic control.					
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