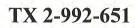
EXHIBIT 82

Additional Certificate of Registration of a Claim to Copyright

This is to certify that the statements set forth in the attached have been made a part of the records of the Copyright Office with claim of copyright registered under number

In testimony whereof, the seal of this office is affixed hereto on



October 2, 2019



United States Register of Copyrights and Director

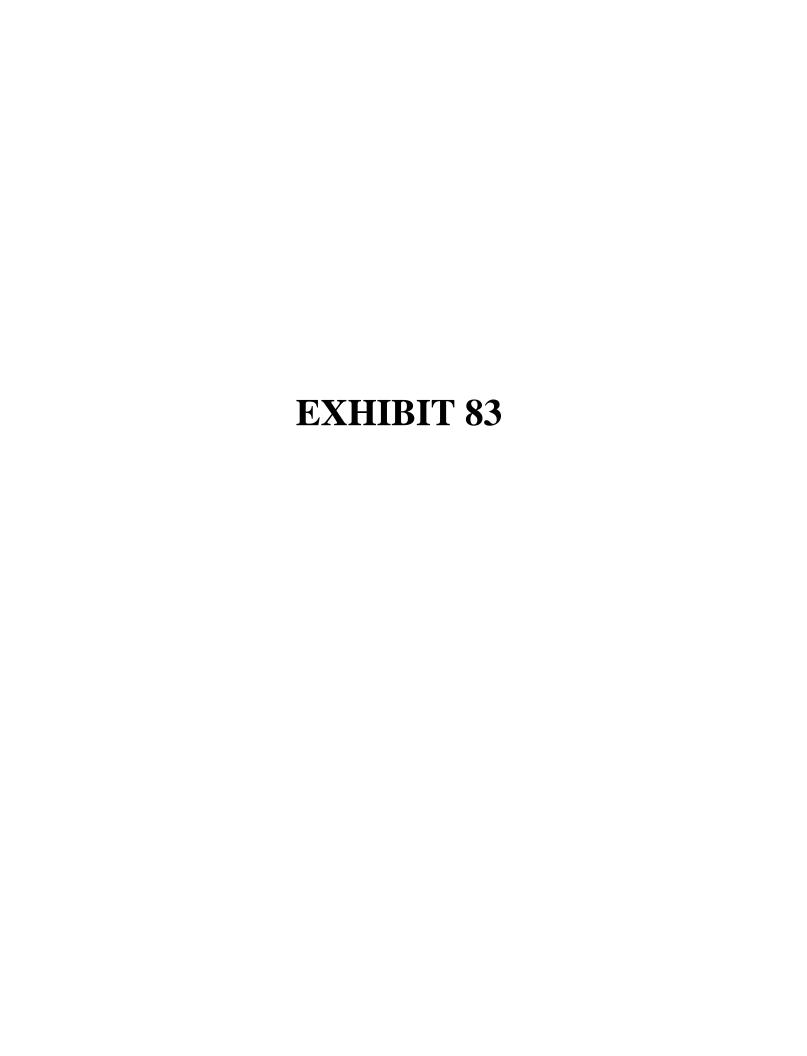
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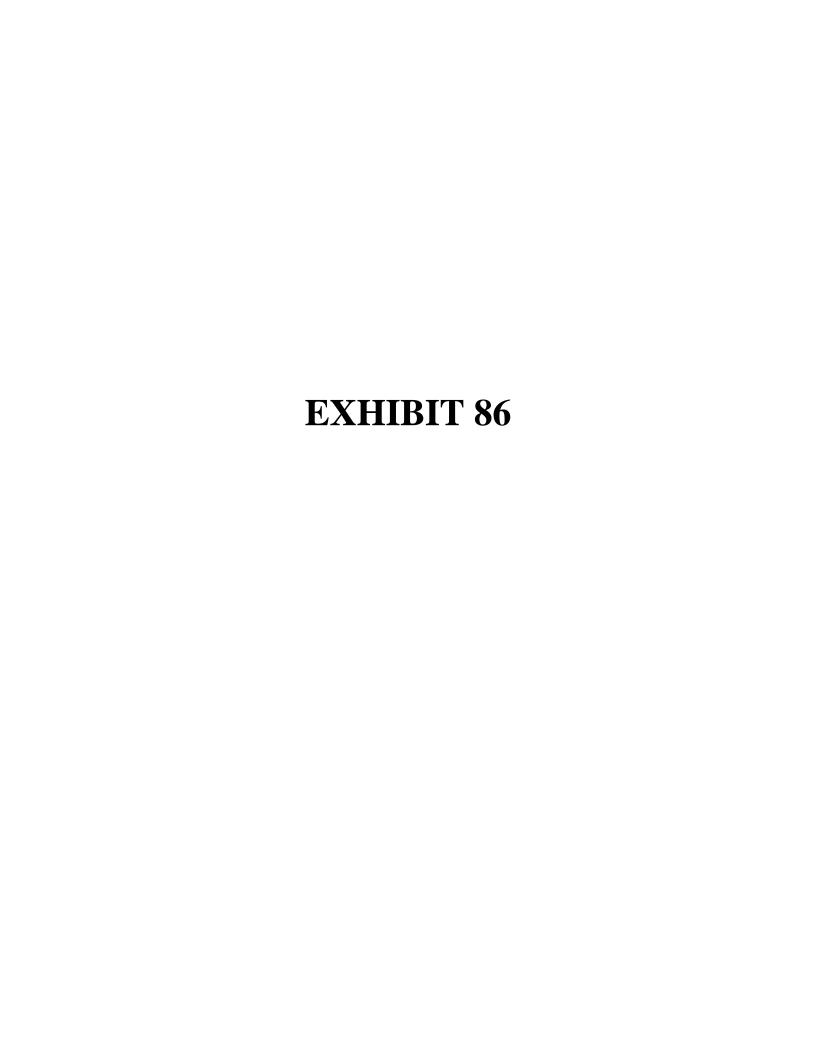
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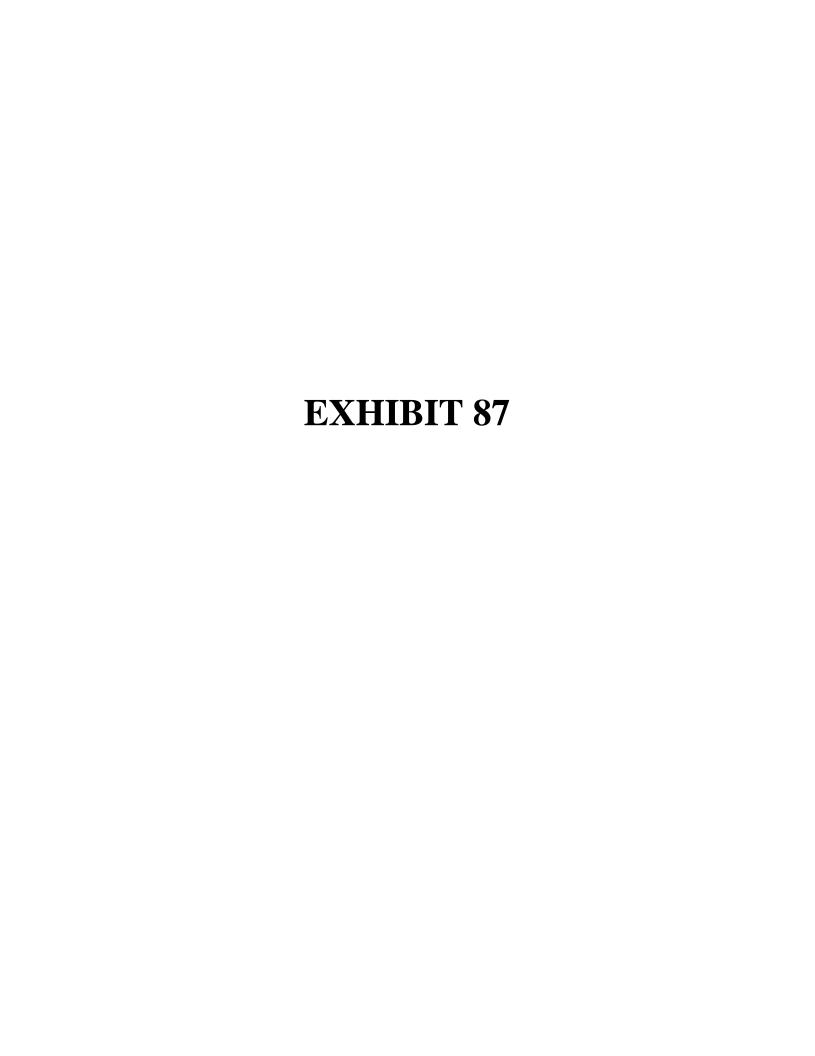
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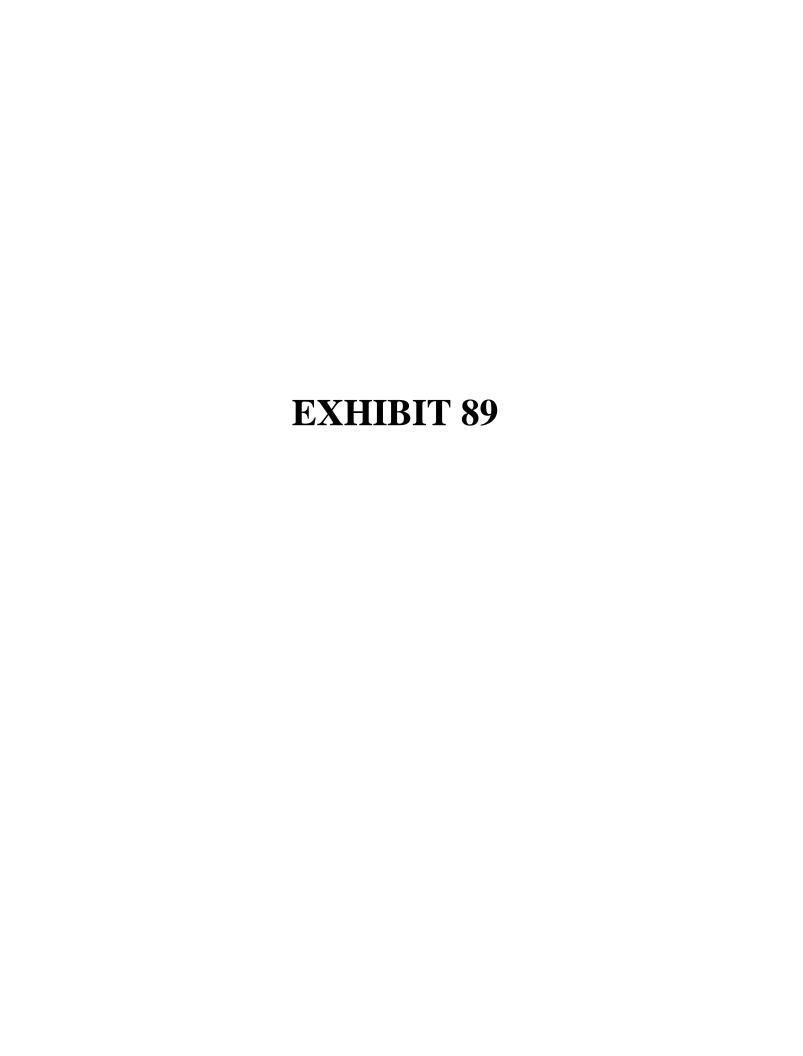




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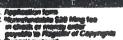
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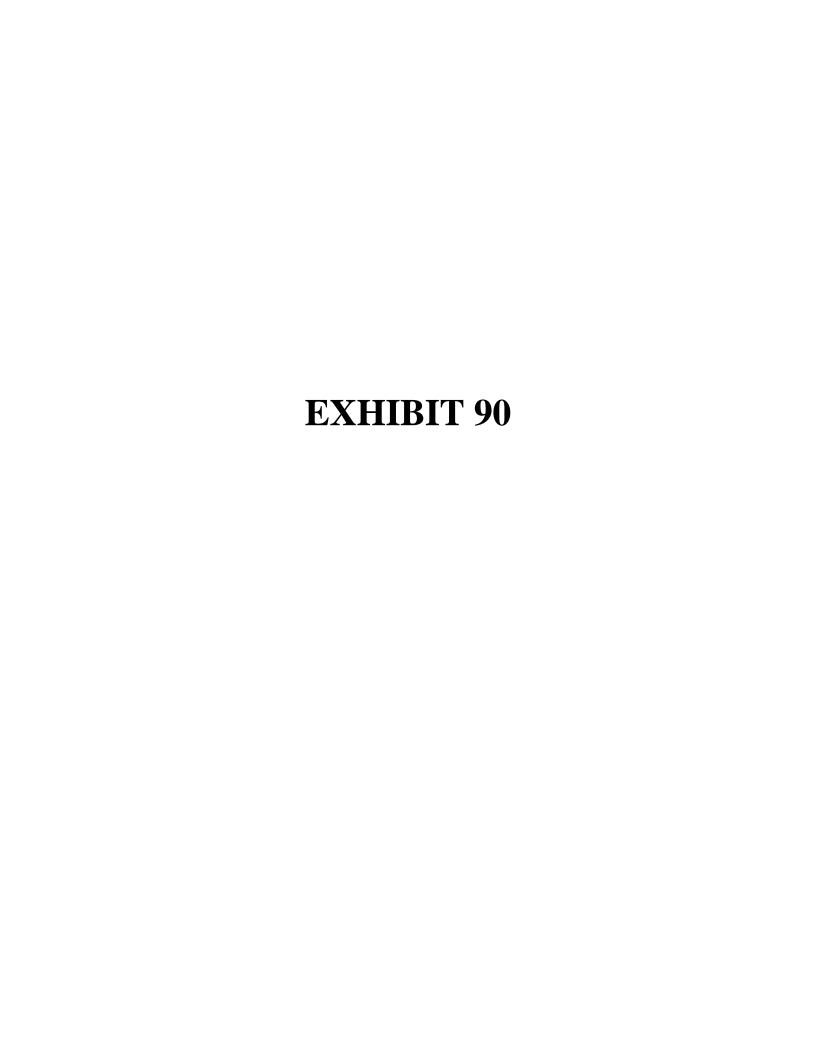
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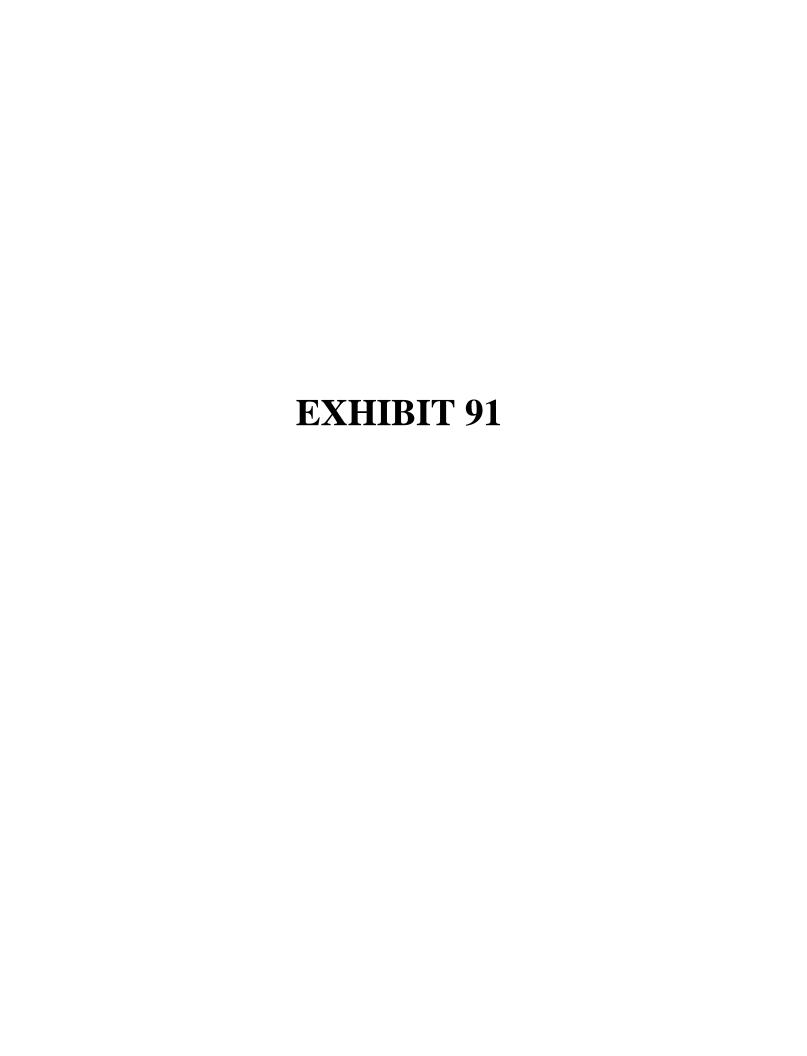
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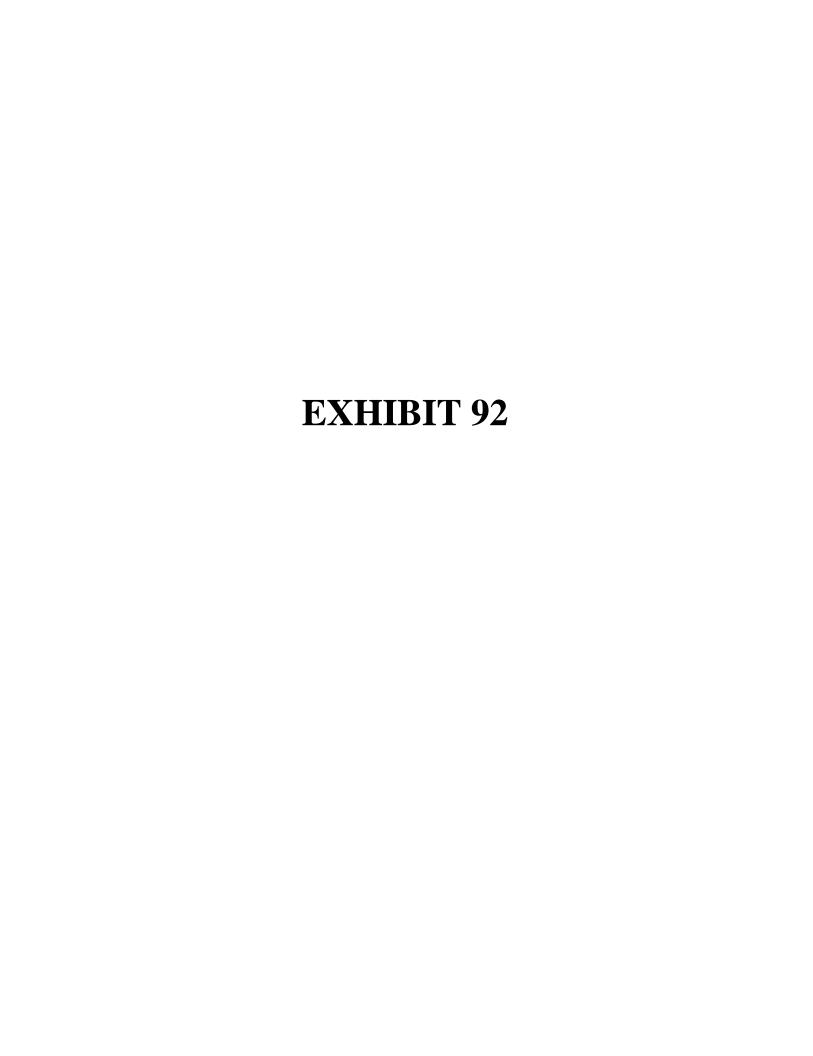
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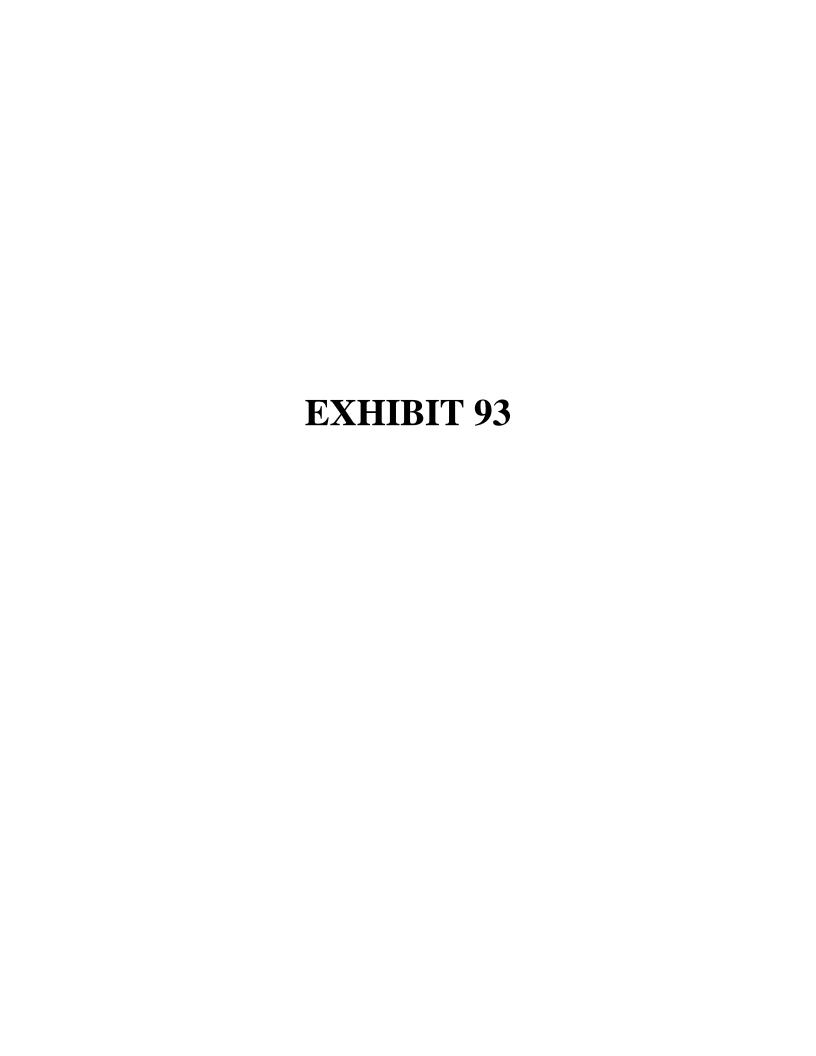
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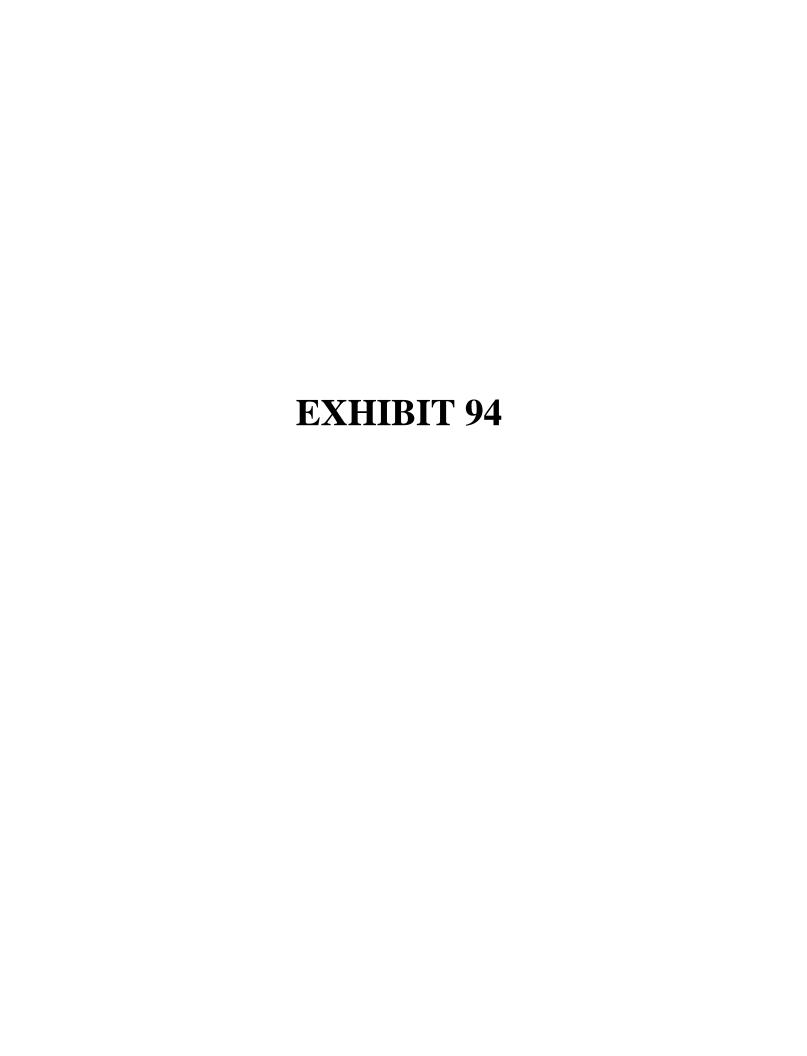


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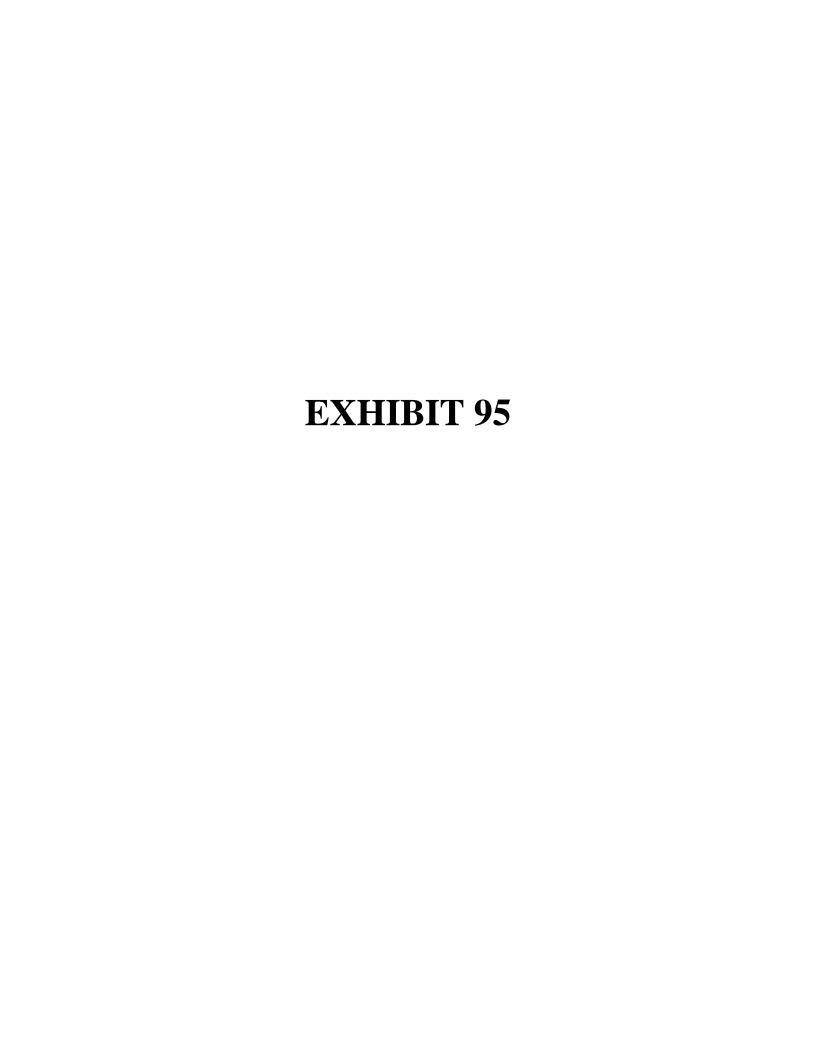
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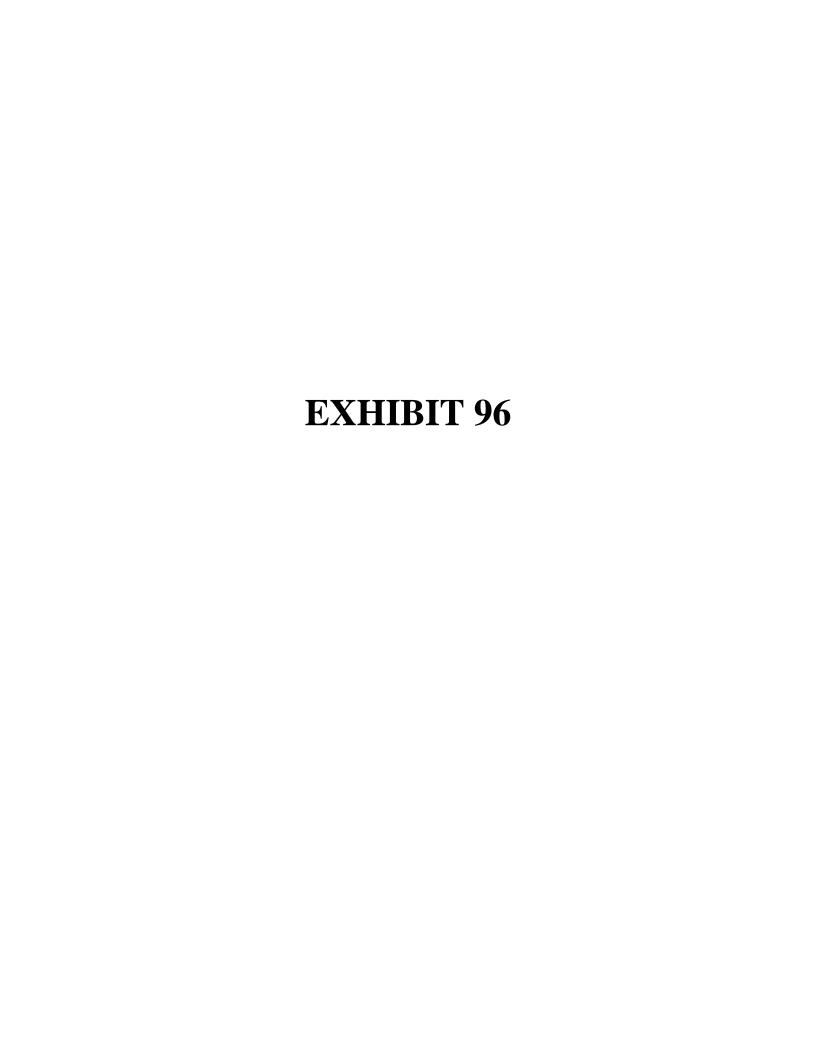
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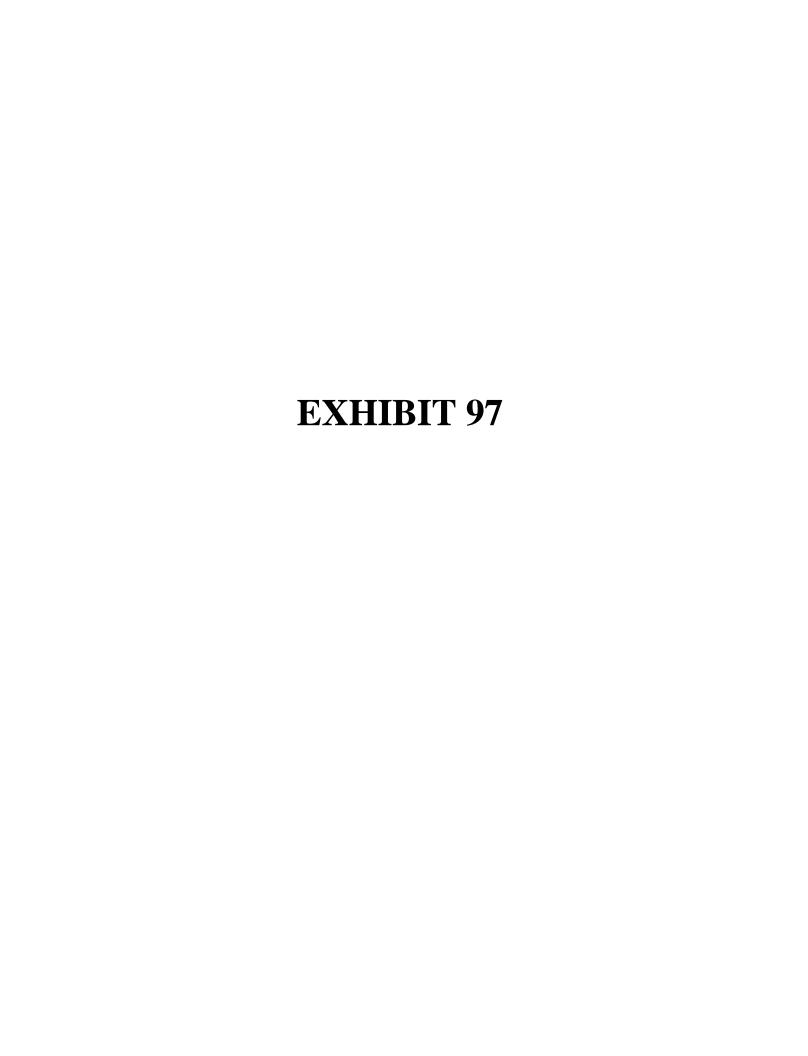
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United States Register of Copyrights and Director

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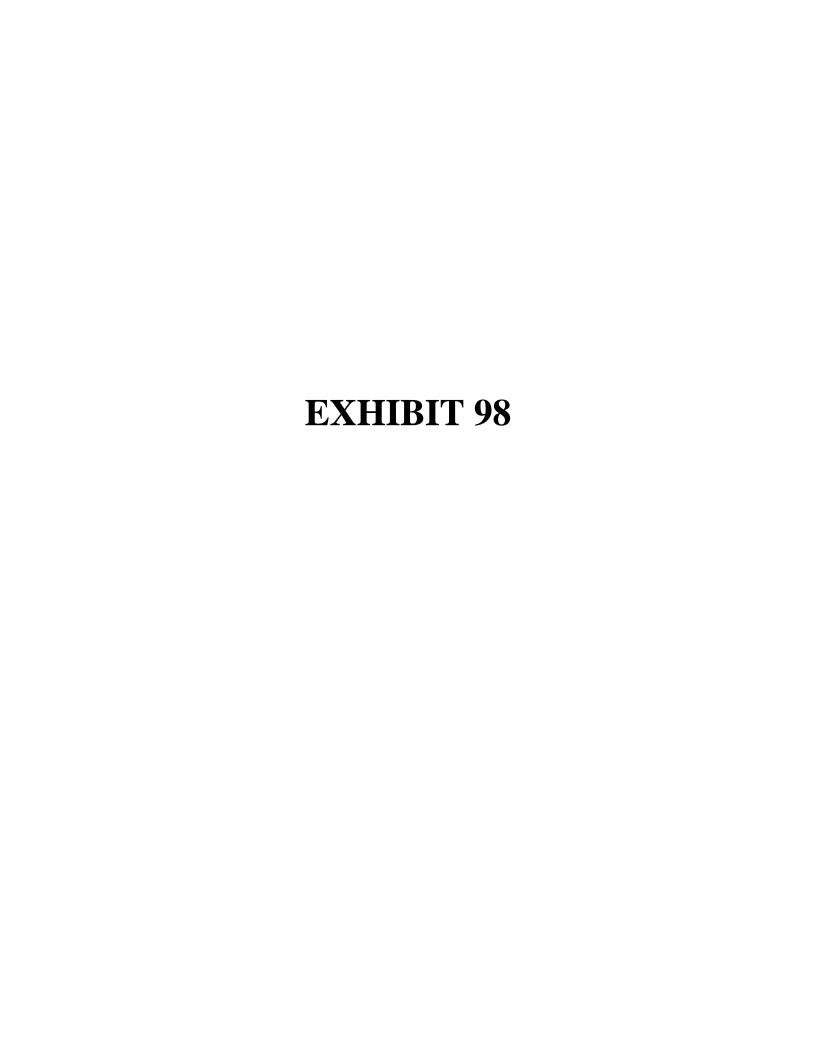
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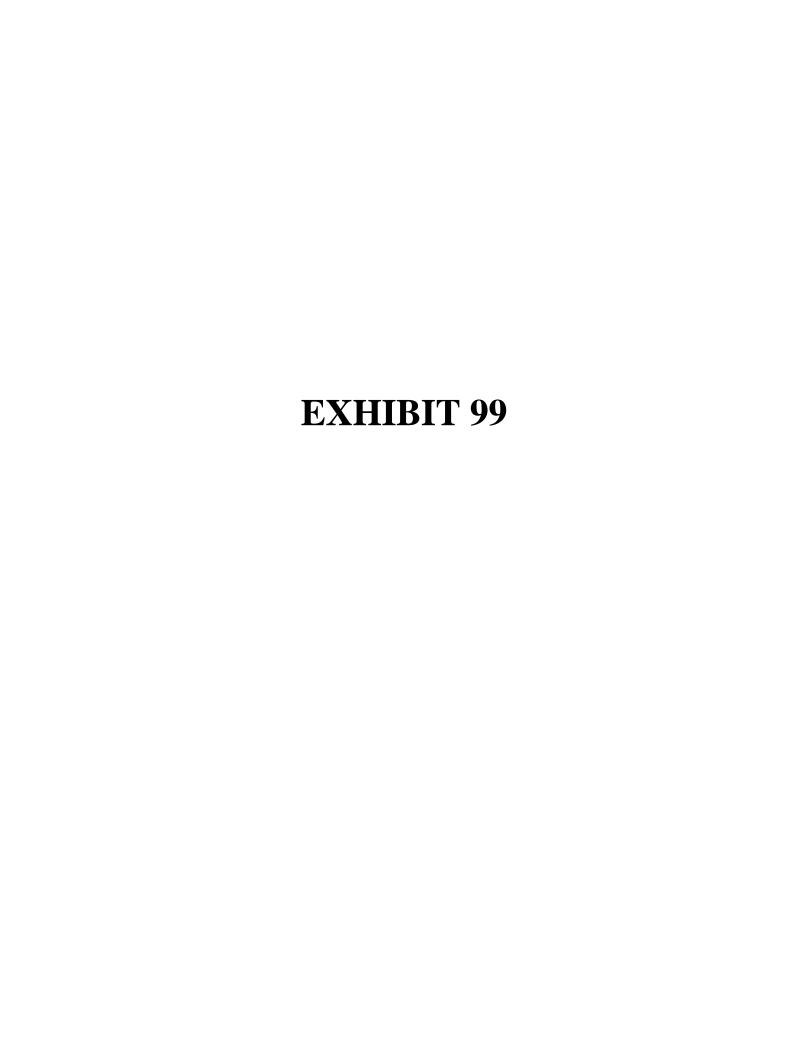
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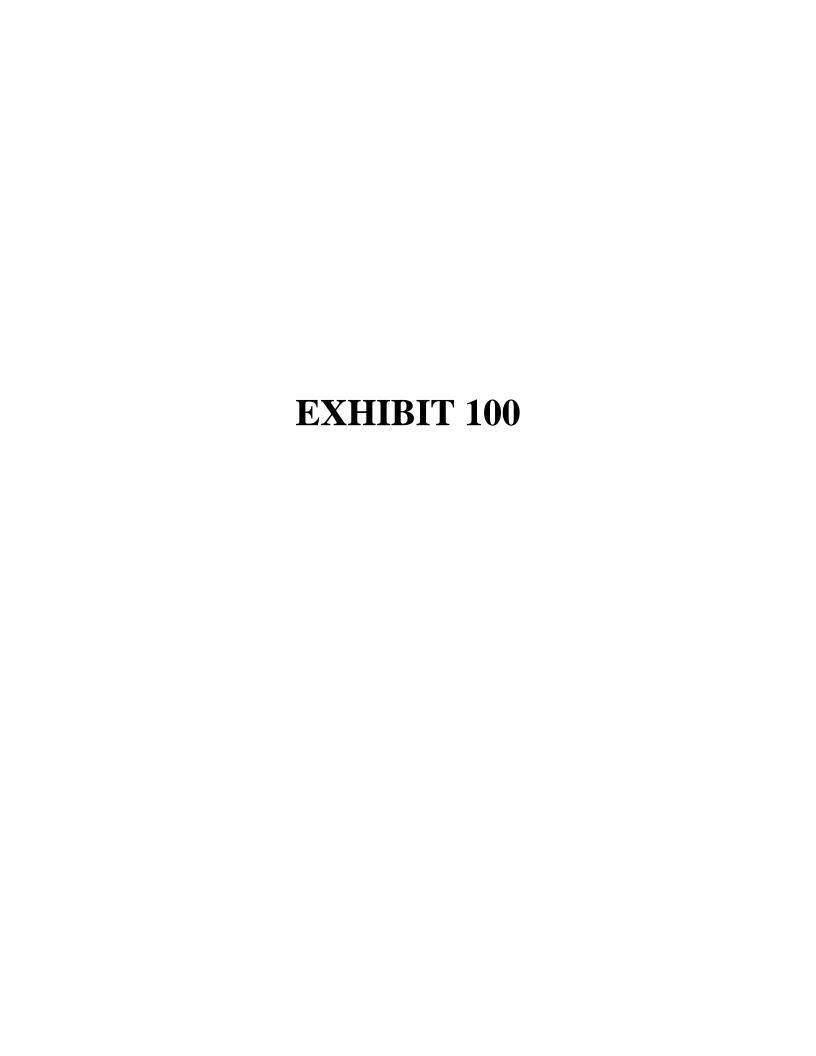
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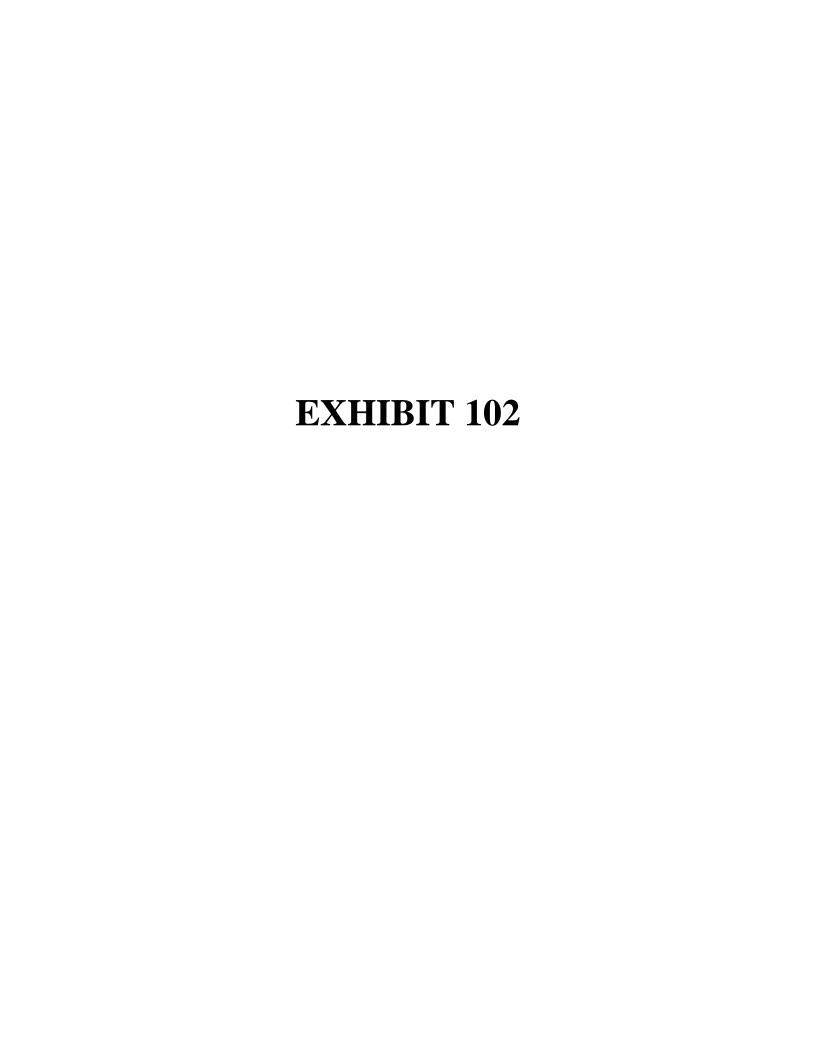
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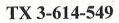
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This is to certify that the statements set forth in the attached have been made a part of the records of the Copyright Office with claim of copyright registered under number

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Kay A. Tesla

October 1, 2019



United States Register of Copyrights and Director





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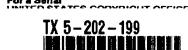
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This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

Marybeth Peters EFFECTIVE DATE OF REGISTRATION

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PREVIOUS REGISTRATION Has registration for this issue, or f	for an earlier version of this partici eing sought? (Check appropriate b	ular issue, ałready been boxi 🛡	made in the Copyright Office?	
<b>a.</b> $\subseteq$ This is the first published version of an issue previously register	ed in unpublished form	~~, <b>\</b>	-	
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ERTIFICATION* I, the undersigned, hereby certify that I am the	author other copyright claimar			
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December 1990--75,000

**☆U.S. GOVERNMENT PRINTING OFFICE: 1990—282-170-20.005** 



# Additional Certificate of Registration of a Claim to Copyright

This is to certify that the statements set forth in the attached have been made a part of the records of the Copyright Office with claim of copyright registered under number

In testimony whereof, the seal of this office is affixed hereto on

TX 988-070

October 2, 2019

Kay A. Tesle

United States Register of Copyrights and Director

## FORM TX

UNITED STATES COPYRIGHT OFFICE

REGISTRATION NU	
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	TITLE OF THIS WORK: 1982 Annual Book of ASTM Standards PREVIOUS OR ALTERNATIVE						
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(2)	Under the law, the "author" of a "work made for hire" is generally the employer, not the employee (see instructions). If any part of this work was "made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates blank.						
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	TRANSFER: (If the copyright claimant(s) named here in space 4 are different from the author(s) named in space 2, give a brief statement of how the						
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Complete all applicable spaces (numbers 5-11) on the reverse side of this page
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COMPILATION OR DERIVATIVE WORK: (See instructions)					
PREEXISTING MATERIAL (Identify any preexisting work or works th	at this work is based on or incorporati	es)	(6)		
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CERTIFICATION. # 1.4	(City)	(State) (ZIP)	ence		
CERTIFICATION: # I, the undersigned, hereby certify that I am the: (  author Oother copyright claimant Oowner of exclusive right(s) Sauthori.	Checkone) American So zed agent of Materials	ceity for Testing and			
of the work identified in this application and that the statements made by	(Name of authors) (Name of authors)	or other copyright claimant, or owner of exclusive right(s)	10		
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## 17 U.S.C. § 506(e). Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 4(19) or in any written statement filed in connection with the application, shall be fined not more than \$2,500.

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