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my family

ACKNOWLEDGMENT

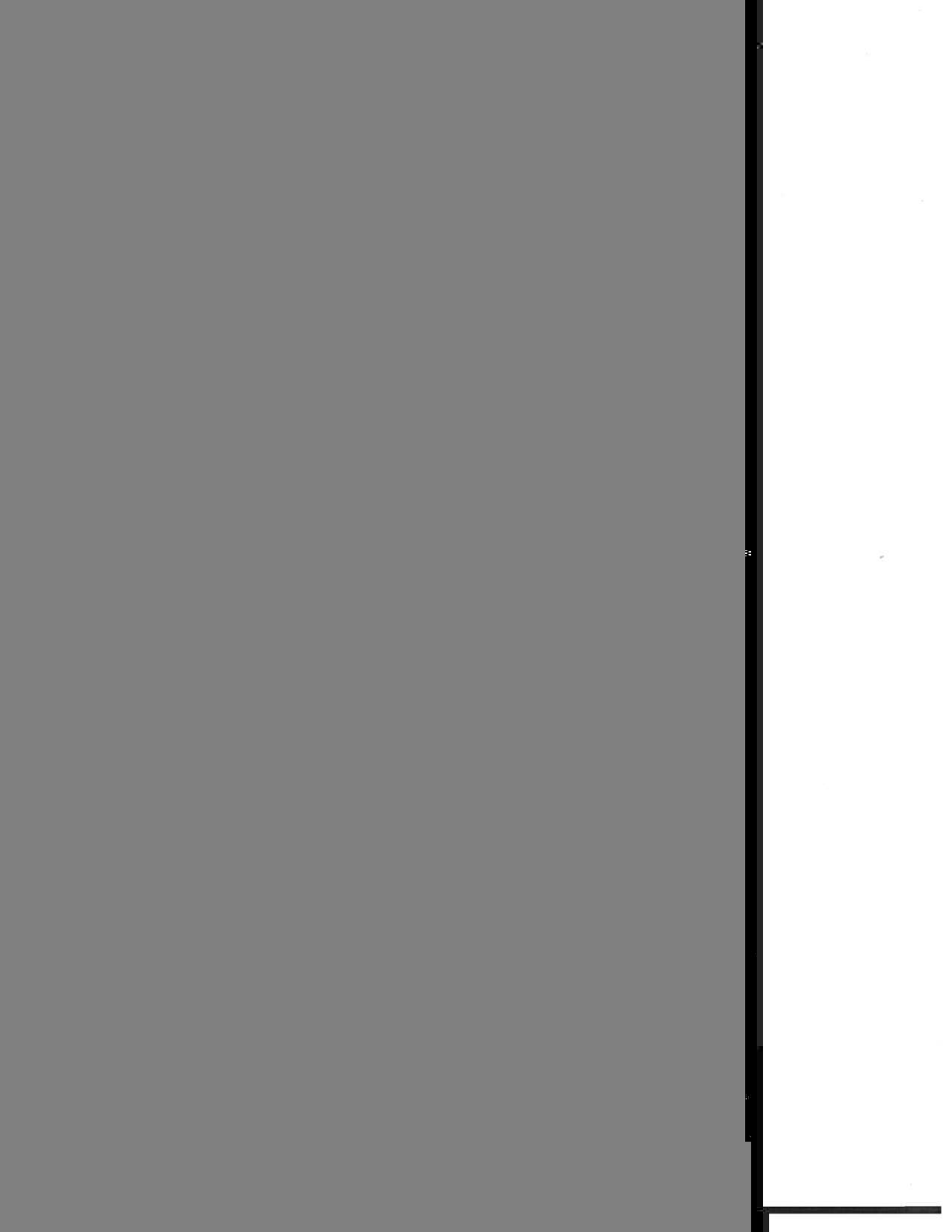


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* Codes modified or written for this thesis.







Table 2.1

DLC-2D 99 Group Neutron Cross-section
Multigroup Structure

Table 2.1 Continued



Table 2.1 Continued

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Table 2.3 Continued

Table 2.4 Continued





Table 2.6A Continued

Station	Depth (m)	Temperature (°C)	Salinity	Density (σ _t)	Speed (cm/s)	Direction (°)	Wave Height (m)	Wave Period (s)	Wave Direction (°)	Current Speed (cm/s)	Current Direction (°)	Remarks
100	0	22.5	35.2	77.1	10	45	1.5	8	135	5	135	Clear
100	10	22.0	35.1	77.0	10	45	1.5	8	135	5	135	Clear
100	20	21.5	35.0	76.9	10	45	1.5	8	135	5	135	Clear
100	30	21.0	34.9	76.8	10	45	1.5	8	135	5	135	Clear
100	40	20.5	34.8	76.7	10	45	1.5	8	135	5	135	Clear
100	50	20.0	34.7	76.6	10	45	1.5	8	135	5	135	Clear
100	60	19.5	34.6	76.5	10	45	1.5	8	135	5	135	Clear
100	70	19.0	34.5	76.4	10	45	1.5	8	135	5	135	Clear
100	80	18.5	34.4	76.3	10	45	1.5	8	135	5	135	Clear
100	90	18.0	34.3	76.2	10	45	1.5	8	135	5	135	Clear
100	100	17.5	34.2	76.1	10	45	1.5	8	135	5	135	Clear
100	110	17.0	34.1	76.0	10	45	1.5	8	135	5	135	Clear
100	120	16.5	34.0	75.9	10	45	1.5	8	135	5	135	Clear
100	130	16.0	33.9	75.8	10	45	1.5	8	135	5	135	Clear
100	140	15.5	33.8	75.7	10	45	1.5	8	135	5	135	Clear
100	150	15.0	33.7	75.6	10	45	1.5	8	135	5	135	Clear
100	160	14.5	33.6	75.5	10	45	1.5	8	135	5	135	Clear
100	170	14.0	33.5	75.4	10	45	1.5	8	135	5	135	Clear
100	180	13.5	33.4	75.3	10	45	1.5	8	135	5	135	Clear
100	190	13.0	33.3	75.2	10	45	1.5	8	135	5	135	Clear
100	200	12.5	33.2	75.1	10	45	1.5	8	135	5	135	Clear
100	210	12.0	33.1	75.0	10	45	1.5	8	135	5	135	Clear
100	220	11.5	33.0	74.9	10	45	1.5	8	135	5	135	Clear
100	230	11.0	32.9	74.8	10	45	1.5	8	135	5	135	Clear
100	240	10.5	32.8	74.7	10	45	1.5	8	135	5	135	Clear
100	250	10.0	32.7	74.6	10	45	1.5	8	135	5	135	Clear
100	260	9.5	32.6	74.5	10	45	1.5	8	135	5	135	Clear
100	270	9.0	32.5	74.4	10	45	1.5	8	135	5	135	Clear
100	280	8.5	32.4	74.3	10	45	1.5	8	135	5	135	Clear
100	290	8.0	32.3	74.2	10	45	1.5	8	135	5	135	Clear
100	300	7.5	32.2	74.1	10	45	1.5	8	135	5	135	Clear
100	310	7.0	32.1	74.0	10	45	1.5	8	135	5	135	Clear
100	320	6.5	32.0	73.9	10	45	1.5	8	135	5	135	Clear
100	330	6.0	31.9	73.8	10	45	1.5	8	135	5	135	Clear
100	340	5.5	31.8	73.7	10	45	1.5	8	135	5	135	Clear
100	350	5.0	31.7	73.6	10	45	1.5	8	135	5	135	Clear
100	360	4.5	31.6	73.5	10	45	1.5	8	135	5	135	Clear
100	370	4.0	31.5	73.4	10	45	1.5	8	135	5	135	Clear
100	380	3.5	31.4	73.3	10	45	1.5	8	135	5	135	Clear
100	390	3.0	31.3	73.2	10	45	1.5	8	135	5	135	Clear
100	400	2.5	31.2	73.1	10	45	1.5	8	135	5	135	Clear
100	410	2.0	31.1	73.0	10	45	1.5	8	135	5	135	Clear
100	420	1.5	31.0	72.9	10	45	1.5	8	135	5	135	Clear
100	430	1.0	30.9	72.8	10	45	1.5	8	135	5	135	Clear
100	440	0.5	30.8	72.7	10	45	1.5	8	135	5	135	Clear
100	450	0.0	30.7	72.6	10	45	1.5	8	135	5	135	Clear

Table 2.7

DL-C-37/EPR Nuclei with Their ID's - MAT ID Refers to ID's on the Unformatted Tape

Water bound thermal n x-sec ($\sigma_S = 45b$, $\sigma_{n,\gamma} = 0.18b$)

No γ production data

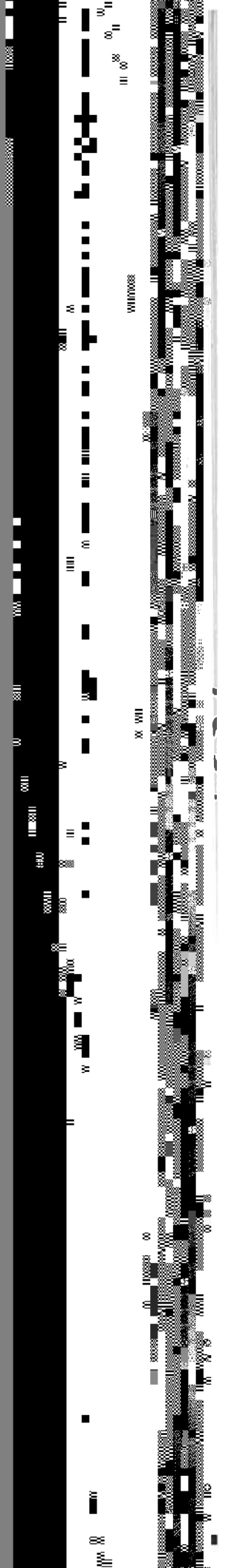


Table 2.7 Continued

Table 2.7 Continued

MAT ID	Material	ENDF/B ID	Remarks
407 - 415	W-186	4586(M3)	No γ production data
416 - 424	Ta-181	1285	
425 - 433	Th-232	1296	
434 - 442	U-233	1260	

The unformatted tape and MAT ID are defined in Chapter Three.

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The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author outlines the various methods used to collect and analyze the data. This includes both primary and secondary data collection techniques. The analysis focuses on identifying trends and patterns over time, which is crucial for making informed decisions.

The third part of the document provides a detailed breakdown of the results. It shows that there has been a significant increase in sales volume, particularly in the online channel. This is attributed to the implementation of the new marketing strategy and the improved user experience on the website.

Finally, the document concludes with a set of recommendations for future actions. It suggests continuing to invest in digital marketing and exploring new product lines to further drive growth. Regular monitoring and reporting will be essential to track the success of these initiatives.



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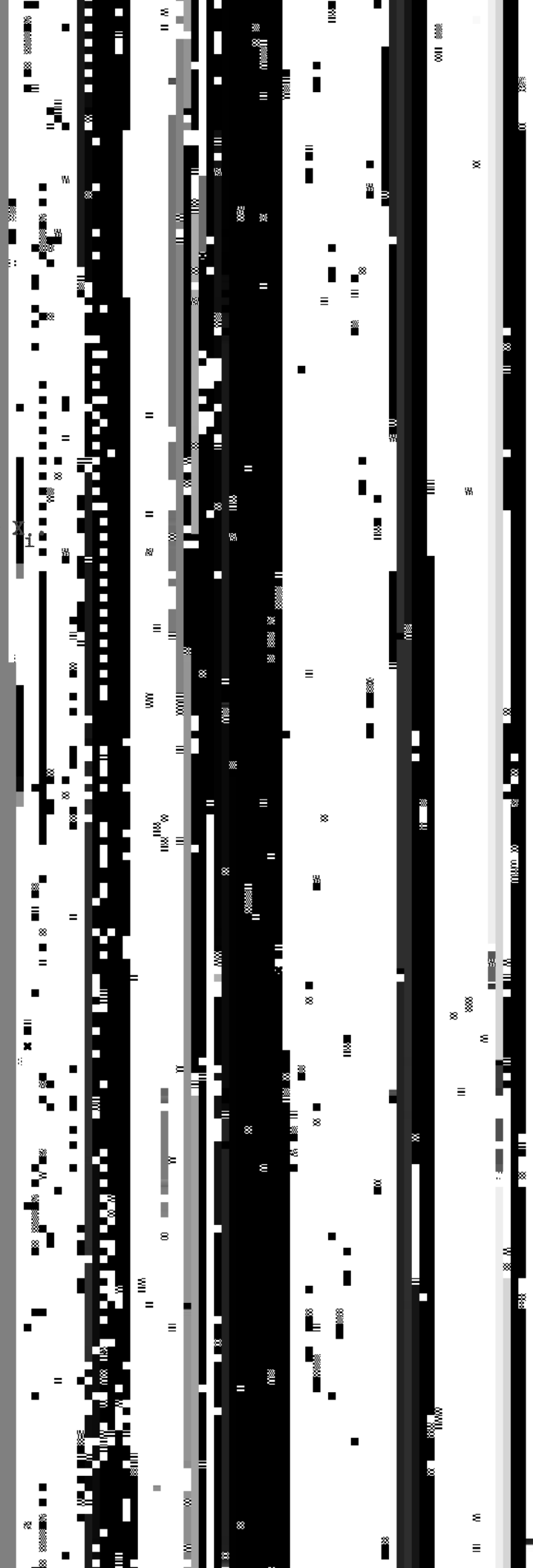
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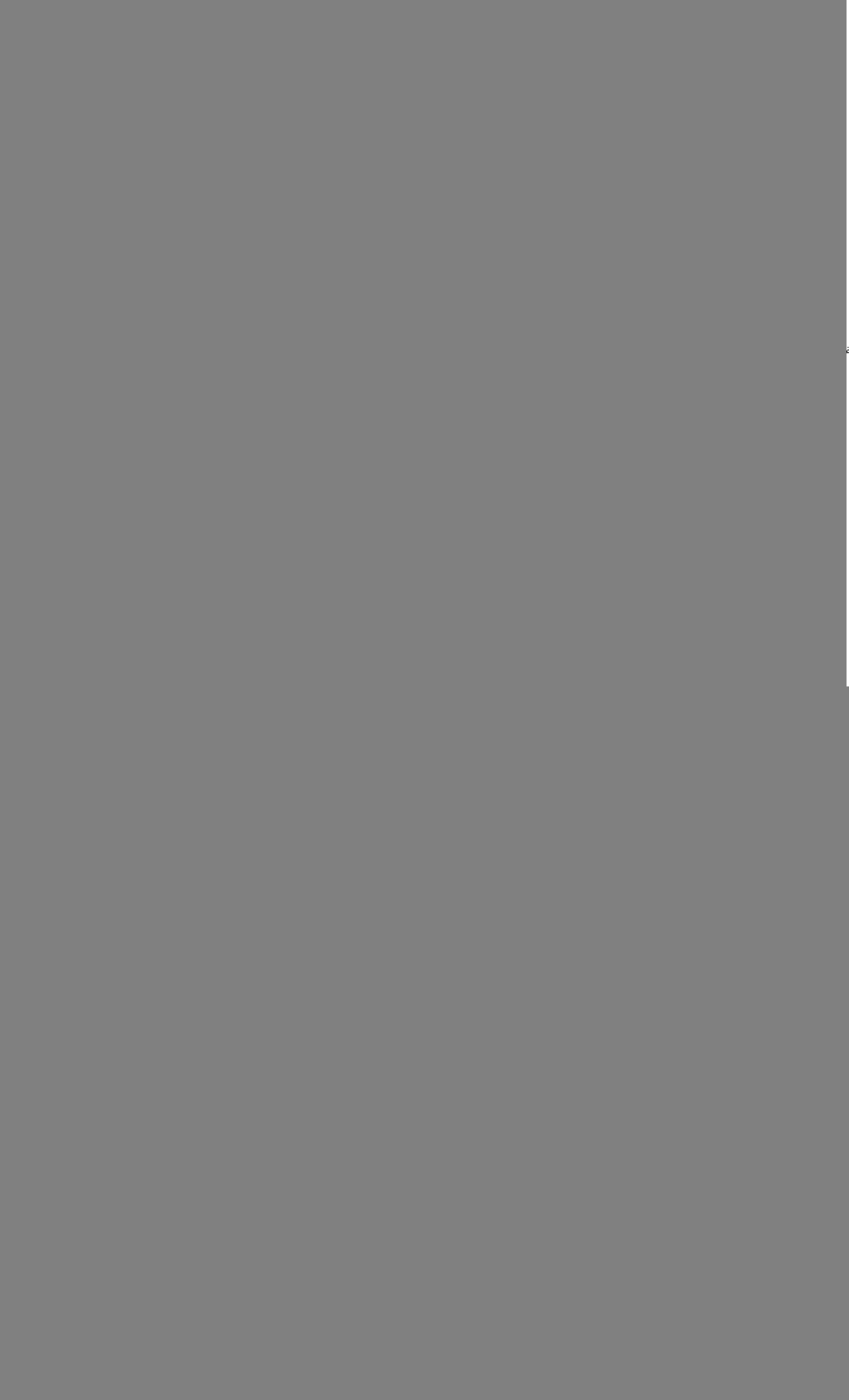
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$$+ v \sum f_i \phi_i + X_i$$





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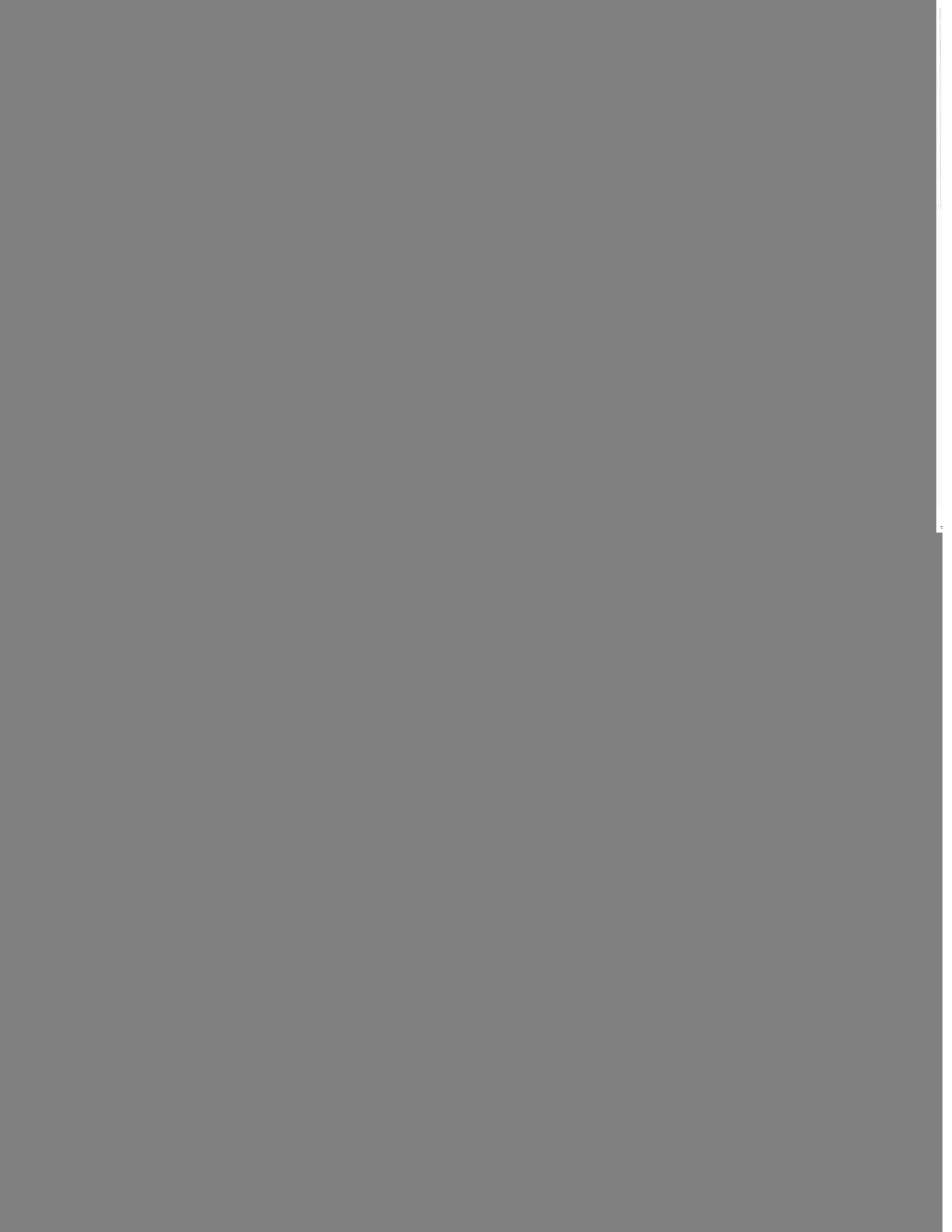
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Figure 4.3

Allocation of Tape Output for APRFX-I

```
//GO.FT02F001 DD UNIT=TAPE, LABEL=j, DSN=data set name,  
//              VOL=SER=T___, DISP=(NEW,KEEP)
```







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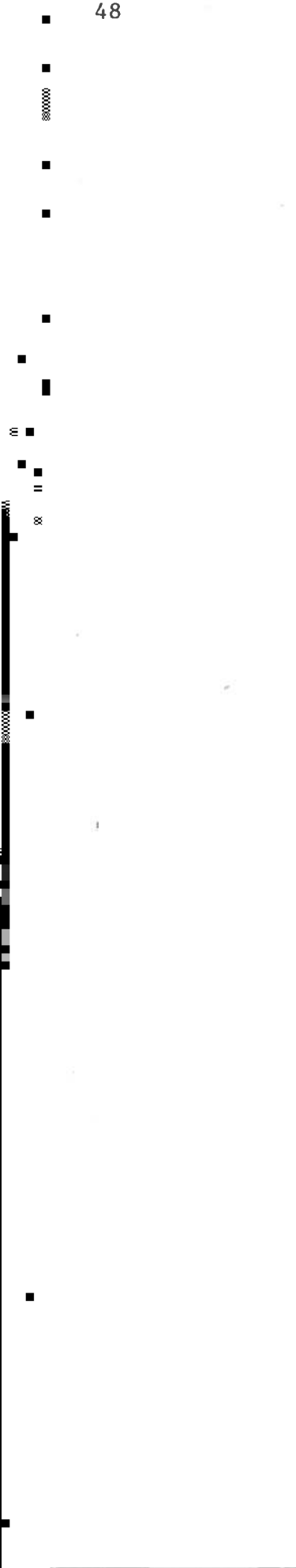
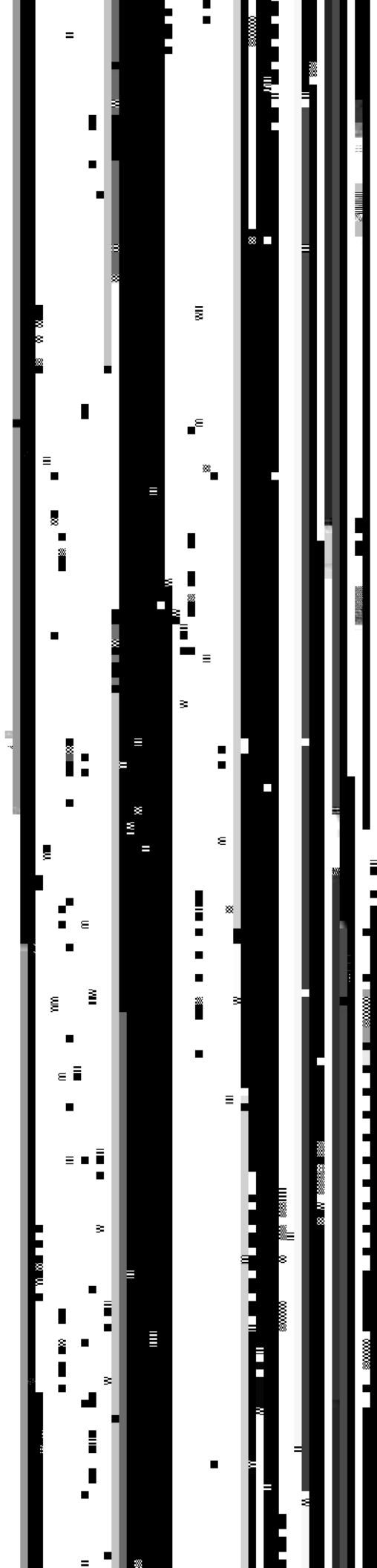




Figure 4.7B

Test of the Input Data for P_0 Case - Using GIT



Figure 4.8

TAPE MAKER Card Input for the P₃ Case

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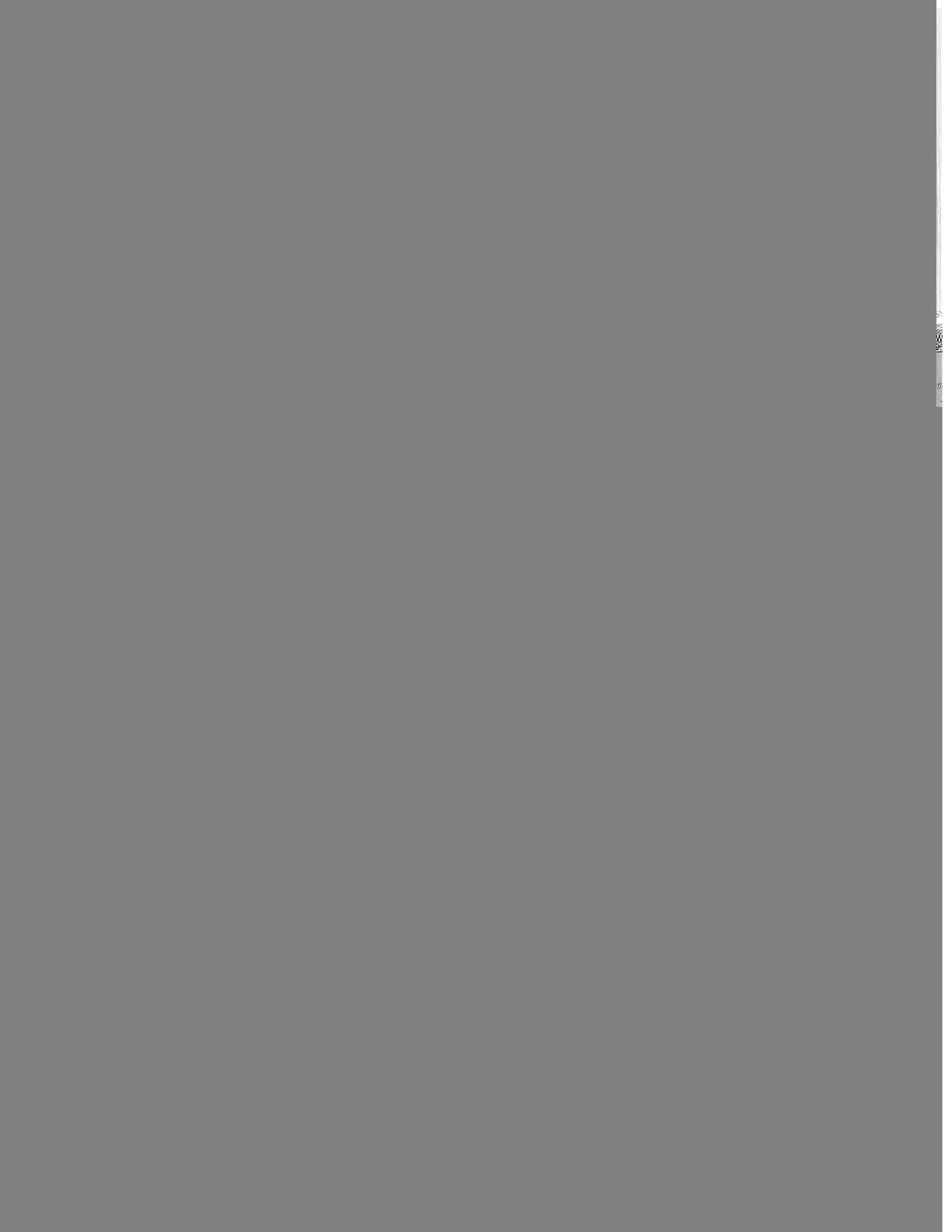
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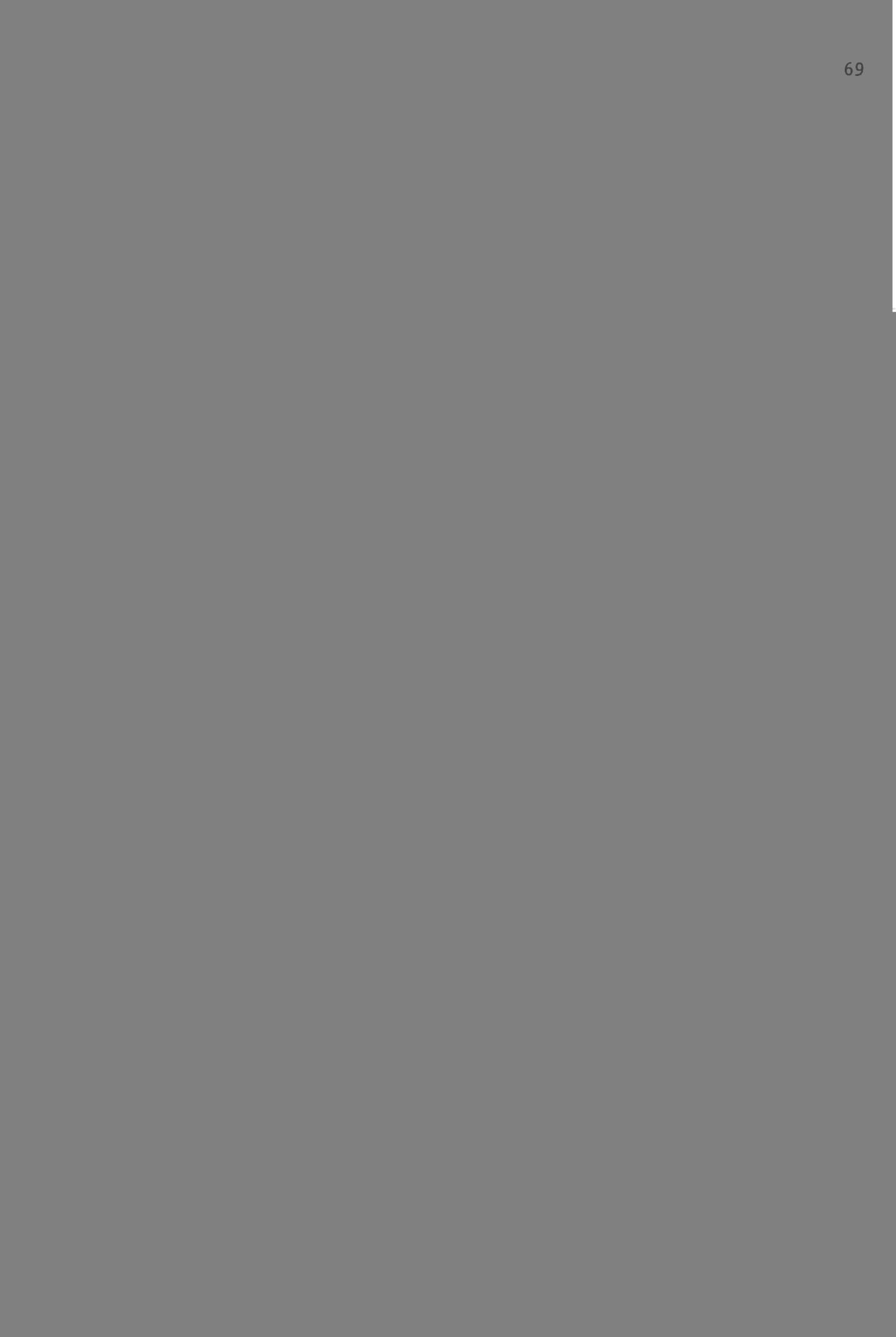
Figure 4.11
ANISN P₃ Data for EPR Problem





APPENDIX A

Fission Sources for Several Isotopes for the 99-group
Energy Structure of DLC-2D Library



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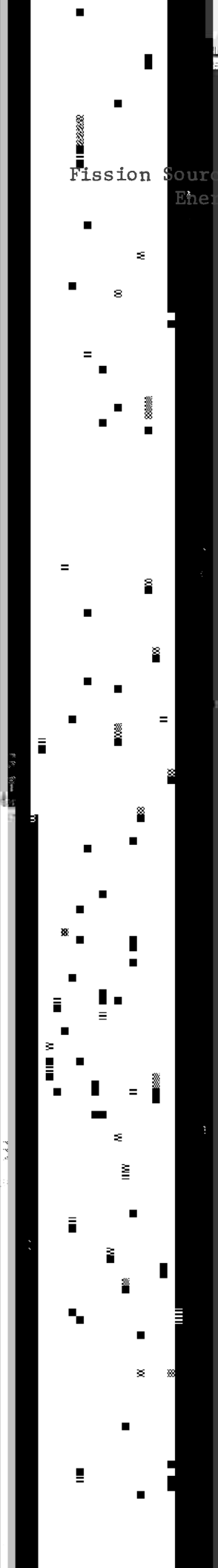
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Fission Sources for Several Isotopes for the 99-group
Energy Structure of DLC-2D Library

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Energy Structure of DLC-2D Library

Fission Sources for Several Isotopes for the 99-group
Energy Structure of DLC-2D Library



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Approved:

Robert E. Miles

Major Professor and Chairman

Dean of the Graduate School